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Annual Report of the University, 1981-1982, Volumes 1-4

University of New Mexico

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ANNUAL REPORTS
1981-82

VOLUME I

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AFRO-AMERICAN CENTER
ACADEMIC AFFAIRS DIVISION
ANNUAL REPORT
1981-82

The 1981-82 academic year began with Dr. Cynthia Hamilton as the new Director, Academic Affairs. Among the many activities planned for the year were the following:

- series of noon lectures on campus
- series of evening lectures in the community
- sponsorship of nationally known speakers
- increases in budget for the year through supplemental budget.

Accomplished during the first half of the year were three noon lectures; one community lecture; sponsorship of Dr. C. L. R. James at Woodward Hall; and reorganization of the Advisory Committee.

Seven courses were listed for the Fall Semester of which three were cancelled due to inadequate registrants. All the courses in the department were upgraded to attract upper classmen and attempts were made to secure curricula committee's approval for 400 and 500 level classes for internships and graduate courses. Dr. Cynthia Hamilton resigned her Directorship at the end of the Fall Semester.

After approximately six weeks of acting, I was appointed permanently to the Directorship of the Academic Affairs Division in February, 1982.

Seven courses were listed for the Spring Semester, again two classes were cancelled for lack of registrants.

The Advisory Committee was reorganized again to conform with the mandate of the Faculty Senate.

The division provided the organizational and/or proposal writing skills and cooperated with community organizations such as N.A.A.C.P., Grant Chapel AME, and the Organization of African Students for various projects throughout the year. One such project, with funds provided by the New Mexico Humanities Council, was a series of lectures, workshops and symposia organized under the title, "Our African Heritage: Emphasis Social Movements." Participants for the first segment were: Bishop Hartford H. Brookins, Bishop 5th District African Methodist Episcopal; Dr. Mohamed El-Genk, Professor, Chemical and Nuclear Engineering, UNM, a member of the N.M. Center for Islamic Studies; and Father George Clements, Pastor, Holy Angels Church, Chicago, who gained national prominence for adopting a son, Joey. Audio and video tapes of all the presentations are available for usage by anyone or organization. An interview with Father Clements has already aired three (3) times on the UNM cable television channel.

The concluding segment of the symposia is scheduled for September 24, 1982 on campus. Dr. Ivan Van Sertima 1981 winner of the Clarence L. Holte Award; Professor at Rutgers University,

N.J., and author of "They came before Columbus" will be the main speaker.

The Department spearheaded the formation of the Institute of Research and Social Issues. Membership includes some of the part-time Adjunct Assistant Professors of the department; Dr. Zane Reeves, Director, Public Administration, UNM; Dr. Howard Ross, Associate Professor, Political Science, ENMU and response for membership from Dr. Robert Fleming, Professor of English, UNM is awaited. Inclusive of conferences, workshops, symposia and research, the Institute hopes to start the publication of a scholarly journal.

As usual, the Department co-sponsored the Summer After School Academy with the Student Services Division. The program served over 100 youngsters of all nationalities and ethnicity from all parts of the city. It was successful and ended July 2, 1982 with a parent and community-involved graduation ceremony at the Thomas Bell Recreational Center.

Other programs participated in were:

- 1) College Experience Day for selected Black School students. These students spent a whole day on campus and attended classes at the Medical School and on the main campus. The program was designed to both demystify college and to encourage the students to enroll at UNM.
- 2) Senior Recognition Day in honor of graduating

Black students and others who have achieved distinction in both academic and athletic activities.

PROJECTION FOR 1982-83

The one most important need and therefore primary objective is a year of peace and tranquility - a quiet and constructive diplomatic academic year within which the following other objectives will be pursued.

a) Cross-listing of Existing Courses

A series of meeting with various departments such as History, Latin American Institute, etc. to resolve the perennial difficulties and in some cases, failures to have Afro-American Center's courses cross-listed.

b) Diversification

In addition to our regular on-campus course offerings broader and stronger cooperative relationship will be established with the Continuing Education Department. Such cooperation will hopefully increase the number of our off-campus credit course offerings from one to two or more per semester; non-credit courses included.

c) Minor Degree

At the initial meeting of the newly formed Institute of Research and Social Issues, the tone of the discussion on the issue of academic development and direction seemed

to be conclusive on the institution of a minor degree, possibly this year. However, the question of a major was to be examined in due course.

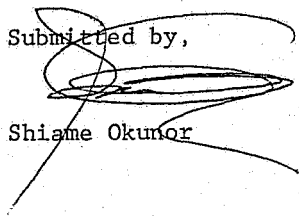
d) Symposium

The institute of Research and Social Issues will organize one symposium April, 1983 on the topic, "Tax Exemption for all Colleges". Dr. Bobby Jones, III and Senator Julian Bond are the expected speakers.

e) Southwestern Journal on Black Studies

The projected proceeds from the symposium in addition to other contributors are targeted to fund the journal. Publication will be yearly.

Submitted by,


Shiame Okunor

SO/sm

cc: Dr. Joel Jones

Afro-American Center Student Services Division

1981 - 1982 Annual Report

As director of the Afro-American Center Student Services Division, I have continued to work from the premise that the primary function of Afro-American Student Services is to not only provide any assistance which will keep Black students in school for the duration of their degree programs, but to also provide an environment conducive to making their experience at UNM as academically and culturally rewarding as possible. Working from the above mentioned premise, the following programs were undertaken this year in cooperation with Dr. Shiame Okunor and the support of the Afro-American Center Academic unit. In addition to our efforts, any successes of the program this year should be attributed to the combined efforts of Vice-President 'Swede' Johnson and his staff whose support and encouragement was never ending, and to Shirley McDowell whose devotion to the program was an inspiration.

Student Services Activities

1981 - 1982

1) Career, Academic and Personal Counseling

Student use of counseling services offered by the Afro-American Center nearly doubled in the 1981-82 school year (see individual Client Report 1981-82). This was due mainly to the increase (98%) in the number of students seeking short-term personal counseling. In an effort to better accommodate students seeking personal counseling the director set up special hours at the UNM Women's Center. In addition to the above mentioned students an average of three(3) students per week came to the center for Career, Academic or financial Aid information.

2) Financial Aid Information

Three meetings were held with representatives from the office of Financial Aid. The purpose of these meetings was to keep this office accurately informed of all available financial resources for students during the academic year, and of any change in policy with regard to financial aid for UNM students. The director also made visits to three (3) local-

high schools Black Student Union Organizations to discuss and answer questions about financial aid available to them at UNM.

3) Lecture Series

A series of lectures designed to facilitate a greater exchange of ideas between community, faculty and students were scheduled during the Spring and Fall semesters. Local and nationally known personalities were invited to speak on such topics as "Social Responsibility of Religious Organizations" and "Our African Heritage."

4) Full and Part Employment Information

Employment information received by this office is placed on the office bulletin board. Black graduating seniors were mailed employment notices in their field of interest.

5) Free Use of Typewriters and Free Emergency Typing Service

Students had free use of typewriters in the Black Student Union office. Papers ten pages or less were typed for students who could not type and could not pay for typing. Students whose papers were typed by the Center's staff were required to have their papers clearly written, in the office forty-eight hours in advance of due date, and to have a conference with the typist before and after the typing service.

6) Study Area

The Afro-American Center Conference Room, which houses books and resource materials donated by University departments and community persons, was reserved by students for group and individual study sessions.

7) Advisor, Black Student Union Tutoring Program

In addition to Black History Month activities, Afro-American Student Services and Black Student Union co-sponsored a Tutoring Bill which was funded by ASUNM. This bill provides additional free tutoring services for UNM students.

8) Emergency Student Loan Fund

In the event of an emergency students may borrow up fifty dollars (\$50.00) from the Afro-American Center Emergency Student Loan Fund.

9) Participation in UNM Ambassadors Program

The Director Participated in the UNM Ambassador Program by contacting and meeting with recognized community leaders in Clovis and Hobbs, New Mexico. The main topic of our discussion was the loss of New Mexico Black Students to out of State Colleges and Universities.

Special Services Programs

1) A bi-monthly public service program aired on KOAT-TV. The show focuses on a variety of issues pertinent to local as well as national Black Communities. "The Black Experience" TV Program is produced and hosted by the Afro-American Center, Director of Student Services.

2) Afro-American Center After School Academy

Fall and Spring - The After School Academy Program is staffed primarily by volunteers and is designed to motivate excellence in the scholastic development of young people. The program focuses on students in grades 1-12 with a concentration on current classroom activities and preparation towards educational and professional objectives.

This is accomplished by working with program participants on a near personalized basis.

There is no charge for the program, the personnel and supplies are provided, and in some cases free transportation is provided. The program is sponsored by the Afro-American Center and the Albuquerque Branch of the National Technical Association.

Summer After-school Academy

The objectives of the summer phase of this program are as for the Spring and Fall. The summer program however, focuses on the basic skills i.e. reading, writing, math and science. Every effort is made to show students that learning can be a fun experience. Free transportation and lunches are provided.

(college experience day cont'd)

3) College Experience Day and Parents Dinner

This program is designed to give Black high school students an opportunity to spend a full day on the UNM campus. Students are identified through their high school counselors and through the school's Black Student Union Organization. Every effort is then made to match these students with university students and faculty who share their field of interest. Participants attend classes with university students and activities.

Representatives from various departments on campus were invited to talk with the students and inform them of services available to them at UNM. The day also includes free lunch for all participants, a tour of the campus and a parents dinner discussion.

4) Senior Recognition Day

Afro-American Student Services and Black Student Union co-sponsored this event which honors Black graduating seniors and recognizes outstanding students, faculty and staff at UNM

Summary of Participation
In Sponsored Activities

Tutoring	57
Financial Aid Information	78
High School Visitation	63
Free Typing	Approximately 3 papers/day
Black History Month Activities	972
Ambassadors Program (Black Community Leaders)	
	Clovis 3
	Hobbs 7
Lecture Series (4 lectures)	378
Emergency Student Loan	8
After-School Academy	

Fall and Spring (enrollment limited)	20
Summer	150
College Experience Day (4 local High Schools -	21
Parents Dinner/Discussion	108 Parents Student, community
Senion Recognition Day	12 UNM Students 7 High School Seniors 109 Parent/community

Afro-American Student Services

Statement of Purpose 1982-1983

The purpose of Afro-American Student Services is to provide any assistance that will keep Black students in school for the duration of their degree programs, and to provide an environment conducive to making their experience at UNM as academically and culturally rewarding as possible.

The goals of the division are:

- 1) To make a concerted effort to act upon the needs of Black students;
- 2) To provide access to support systems and communication networks for Black students on campus;
- 3) To increase public awareness of the current and changing state of Blacks.

The goals reflect this director's view of student service's role on the campus for the next several years. To achieve these goals I have identified several specific objectives that will establish a framework for efforts to meet the goals.

Our first goal as stated is "to make concerted effort to act upon the need of Black students." The objectives include:

- 1) Meeting regularly with representatives of the UNM ethnic centers and Black student organizations and provide administrative support and consultation on projects when requested.
- 2) Providing center services to individual students.
- 3) Participating in the network of organizations serving the Black community.

Our second goal is "to provide access to support systems and communication networks for Black students on campus." The objectives include:

- 1) Maintaining liaison with campus offices and organizations which have an impact on Black students.

- 2) Monitoring University decisions that affect the status of achievement of Blacks on campus.
- 3) Providing a foundation for Black students to organize around specific issues and needs.

The third goal is "to increase public awareness of the current and changing state of Blacks." The objectives include;

- 1) Publicizing services, events and issues of concern to Blacks on campus.
- 2) Providing forums that encourage research and discussion of Black people issues and needs.
- 3) Sponsoring workshops and lectures addressing the issues and needs of Black people.
- 4) Maintaining a special-interest library and reference collection.
- 5) Participating in the network of organizations serving Black people.

Individual Client
Report

1981-1982

	High School Student	Re-entry	Under-graduate	Graduate	Non-degree	Staff	faculty	Alumni	Total
Vocational	7	2	12		9	1			31
Re-entry Academic		2	32	1	8	2		1	46
Personal			18	2		2			22
Individual Total									99

* Due to the extended nature of personal counseling, five (5) students were referred to additional counseling services both on and off campus.

The Report of Chicano Studies
October 1, 1981 - June 30, 1982
Ray Burrola, Acting Academic Coordinator

Curriculum:

Chicano Studies offered the following classes, Fall 1981:

History of Conflict in New Mexico (American Studies), Race and Cultural Relations and Racial and Ethnic Relations (Sociology), Mexican Guitar (Music) and Seminar in Social Planning (Architecture and Planning).

Spring 1982:

History of Conflict in New Mexico (American Studies); Social Problems - Ethnic Identity, Race and Cultural Relations and Sociology of Mexican Americans (Sociology); Seminar in Rural Development (Architecture and Planning); Mexican Guitar (Music) and Southwestern and Mexican Murals, Chicano Teatro and Bailes de la Cultura Mexicana (Continuing Education/The Community College).

Curriculum Development:

Chicano Studies developed the following courses: Sociology of the Mexican American and Social Problems - Ethnic Identity (Sociology); Southwestern and Mexican Murals, Chicano Teatro,

Bailes de la Cultura Mexicana, Mexican Guitar and Piano (noncredit classes, Continuing Education/The Community College); Chicanos and the Media (American Studies) and La Chicana; Current Issues (Women Studies).

Participation:

Chicano Studies participated in the Southwestern Studies ad hoc committee to evaluate feasibility for curriculum, major, minor and concentration in Southwestern Studies.

Clearinghouse:

The office published a monthly newsletter, Anuncio, which included information on fellowships and grants, cultural events on/off campus, conferences and workshops and information on course offerings. Additional information on classes and student services was disseminated through a UNM Student Brochure (funded by the UNM Foundation, Inc., Alcoa Foundation through School Relations and Ethnic and Women's programs on campus).

Student Services:

The Chicano Studies Director sponsored two UNM chartered student organizations, MEChA and Estudiantes Por La Cultura; other services included student advisement, financial support for three undergraduates (Cynthia Gómez, Roberta Rael and Donald Samaniego) to attend the annual conference of the National Association of Chicano

Studies hosted by the University of Arizona. Recordings of several sessions/panels are available through Chicano Studies Documentation Center.

Student Support:

Ray Burrola was influential in raising \$1700.00 for the Presidential Scholarship Fund.

Grants:

Kathy Brooks (Women's Center) and Ray Burrola co-authored a proposal for a student brochure to the UNM Foundation which was granted for \$850.00. Chicano Studies secured an additional \$500.00 from the Alcoa Foundation Funds through School Relations for the Brochure. The student brochure underscored services available to Chicanos, Native Americans, Blacks and Women and courses offered by the respective centers.

A second proposal to the New Mexico Humanities Council for a national conference on demography-- Interpreting the 1980 Census and its significance on Chicanos was not funded.

Cooperation with the Southwest Hispanic Research Institute:

Chicano Studies continued to provide support to SHRI. A part-time staff member (Felipe Gonzales) was released to SHRI to assist in conceptualizing and drafting grant proposals. Two projects funded last academic year which involved Chicano Studies were reaching completion --Carpenters Project (History) and The Energy Project (SHRI). Support for the following academic year and possible linkage with SHRI were consi-

dered, final action pending return of Academic Coordinator.

Symposia:

A Chicano Undergraduate Paper Forum was held which previewed four selected papers (committee selection composed of faculty and students). Honorariums for authors of selected essays were provided by the Southwest Center for Science and Engineering and Estudiantes por la Cultura. Additional sponsored activities included: "Reapportionment: New Mexico Favor," focusing on the controversial reapportionment statute passed by the Legislature; "Education and the Undocumented Question," looking into the pending Supreme Court Case determining the responsibility of U.S. school districts to undocumented children and a "Chicano Experience Roundtable", discussing recent Chicano Scholarship.

Cultural Programming:

Chicano Studies sponsored the Miguel Caro Dancers at Popejoy Hall. Assisted in planning and organizing of Chicano Week. The program also endorsed the Roy Brown Concert and the Leonard Peltier Presentation.

Outside Activities:

The Program cooperated with the UNM Speakers' Bureau. A historical presentation was given to the U.S. Forest Service. Staff members participated in the Albuquerque Hispano Heritage Committee. Ray Burrola also served as treasurer and chairman of fund-

raising committee. The Committee organized activities for approaching commemoration of September 16. Additional papers were presented by Mr. Burrola at Ft. Huachuca's Annual Chicano Celebration and a Speech to the New Mexico Carpenters' Union.

Staff Activities:

Estevan Flores presented formal papers at UCLA on two occasions and the National Association of Chicano Studies.

Sofia Martinez was involved as a community/student liaison as well as radio production through the Raices Cooperative at KUNM.

Cynthia Gomez was involved in coordinating the Undergraduate Paper Forum as well as participating in other campus events.

Roberta Rael participated in various student projects such as Chicano Week and UNM Fiestas as well as coordinating a panel discussion on oral history for a conference hosted by Las Mujeres de LULAC. She also chaired the Committee on Entertainment of the Hispanic Heritage Week Committee.

Dawn Petterson submitted a proposal to the New Mexico Humanities Council for funding of a national conference on demography. All staff assisted Casa Armijo, A South Valley Community Center, in fundraisers, cultural events, and course development (non-credit).

Appointments and Separations:

Esteván Flores, visiting Lecturer in Sociology and Chicano Studies ended his appointment at the end of Spring 1982. He has completed his dissertation, and is currently a Postdoctorial Fellow at UCLA for the academic year before taking a Sociology faculty position with Southern Methodist University.

Roberta Rael, work-study student, depleted work-study allocation in May 1982.

Cynthia Gómez, workstudy, also separated but at the end of the Spring 1982.

Dawn Peterson, clerk-typist, terminated to seek employment elsewhere on February 11, 1982. Sofia Martinez replaced Ms. Peterson on February 9, 1982.

Felipe Gonzales, Lecturer in Sociology, instructed three classes for academic year. Released to SHRI for months of October and November. His contract terminated at the end of spring semester.

Native American Studies
 - Academic Programs/Institute for Native American Development -
 1981-82 Annual Report

Employees/Staff:

Ted Jojola (Acting Director): Full-time, 9 month contract (9/81-5/82)
 Additional work without pay (5/17 to 6/8/82)

Virginia R. Lujan (Clerical Specialist V): Full-time, 12 months (1 month
 sick leave, 4/82)

Penny Concha (20 hour/week, research aide, workstudy): Fall, Spring semester

Instructors:

Beverly Mathews (Instructor-Contract) Fall, Spring

Luci Tapahonso (Instructor-Contract) Spring

Leona Zastrow (Instructor-Contract) Spring

Gloria Emerson (Instructor-Contract) Spring

Steve Wall (Instructor-Contract): 3 days, 11/80

Michael Black (Instructor-Contract): 3 days, 4/82

Bob Johnson (All Indian Development Association-Contract): 3 days, 6/82

Special Contract Personnel:

Louis Baca (Graphic Artist/Photographer): Film Festival

Lena Carr (Consultant): Film Festival

Necah Furman (Registration Coordinator): Film Festival

Geraldine Keams (Assistant Director): Film Festival

Derek Mathews (Photographer): Film Festival

Aaron Rael (Technician): Film Festival

Beverly Sanchez-Padilla (Technician): Film Festival

Rose Sandoval (Room Set-up): Film Festival

Stan Zuni (Photographer): Film Festival

Volunteers (more than 10 hours)

Thaddeus P. Bejnar	(30 hours).
Beverly Johnston	Coordinator, Friends of the Indian Pueblo Cultural Ctr.
Kenneth Miller	Motion Production Crew, Sandia Laboratories
Beverly Sanchez-Padilla	(48 hours)
Ernie Paniagua	(50 hours)
Carolynn Kim-Prelutsky	(120 hours)
Peggy Roberts	(60 hours)
Jean Stewart	Coordinator, Friends of the Indian Pueblo Cultural Ctr.
Rose Thayer	(40 hours)

Visiting Lecturers (Honorarium)

Mike Anderson (Special Participant, Film Symposium)
 Gretchen Bataille (Author)
 Roy Bernal (Pueblo of Taos Representative)
 Laszlo Borzanyi (Director, Museum of Hungary)
 Aaron Carr (Film Producer)
 Richard Chalfen (Film Producer)
 Iron Eyes Cody (Actor)
 D.C. Cole (Director of Indian Outreach, College of Santa Fe)
 Richard Ellis (Professor of History)
 Larry Evers (Video Curriculum Producer)
 Natasha Friar (Author)
 Ralph Friar (Author)
 David Gomez (Pueblo of Taos Representative)
 Robert Hicks (Film Director)
 Maxine Tsosie Joe (Special Participant, Film Symposium)
 Jerry Kammer (Author)
 Geraldine Keams (Actor)
 Phil Lucas (Film Director)
 Mr. George Marischka (Film Producer, Director, Actor)
 Victor Masayesva (Director, Hopi Cultural Center)
 Tom McCarthy (Film Producer-Director)
 Richardson Morse (Film Producer-Director)
 John Redhouse (Director, American Indian Environmental Council)
 Mike Sanger (Film Animator)
 Millie Seubert (Museum of the American Indian)
 Tommie Smith (Assistant Director, Earthworks)
 Stan Steiner (Author)
 Jose Rey Toledo (Actor)
 Mary Jane Tsosie (Special Participant, Film Symposium)
 Elizabeth Weatherford (Museum of the American Indian)
 Carroll Williams (Director, Anthropological Film Center)
 Joan Williams (Director, Anthropological Film Center)

Visiting Guest Lecturers (In-kind)

Conroy Chino (Investigative Reporter)
 Robert Campbell (Professor of Geography)
 Brigitte Fleshman (Special Participant, Film Symposium)
 Robert Redford (Director, Producer, Actor)
 Rhae Mahar (Film Director)
 Sterling Van Wagenen (Director, Sundance Institute)
 Walter Wait (Director, Branch of Indian Cultural Resources, National Park Service)
 Dave Warren (Institute of American Indian Arts)
 Joe Winter (Director, Contract Anthropology)

Visiting Guest Lecturers

Ted Jojola's Class:

- John Bartlit (Los Alamos Scientific Lab)
- Robert Bennet (Former Commissioner of Indian Affairs)
- Charles Blackwell (Attorney)
- Jody Cohen (New Mexico Indian Commission)
- D.C. Cole (Director of Indian Outreach, College of Santa Fe)
- Sam Deloria (Director, American Indian Law Center)
- Merlene Dubreau (Historical Consultant)
- La Donna Harris (Director, Americans for Indian Opportunity)
- Tony Jojola (Johnson O'Malley, Albuquerque Public Schools)
- Jerry Kammer (Author)
- Vicky Kay (Title VI, Albuquerque Public Schools)
- Joe Little (Attorney)
- Jose Lucero (Tribal Consultant, Santa Clara)
- Robert Naniga (Director, Middle Rio Grande Conservancy)
- John Olguin (Director, New Mexico Indian Commission)
- Edna Paisano (U.S. National Census Bureau)
- Regis Pecos (Americans for Indian Opportunity)
- John Redhouse (Director, American Indian Environmental Council)
- Ken Reid (Director, Isleta Alcoholism Program)
- Larry Redshirt (Sioux Tribal Elder)
- Kathy Seal (Legal Consultant)
- Paul Tafoya (Governor, Santa Clara)
- Ron Toya (Bureau of Indian Affairs, Specialist)
- Steve Wall (Instructor, Public Administration)
- Jim Wright (Director, Fine Arts Library)

Beverly Mathew's Class:

- Robert Fasthorse (Law Student, Sioux)
- Ona Porter (Albuquerque Urban Indian Health Board)
- Tacheeni Scott (Micro-biologist, Ph.D., Navajo)

Luci Tapahonso's Class:

- Lena Carr (Producer-Director)
- Conroy Chino (TV Announcer)
- Grey Cohoe (Poet)
- Nia Francisco (Poet)
- Simon Ortiz (Poet)
- Laura Tohe (Poet)
- Stan Zuni (Editor, Pueblo News)

Leona Zastrow's Class:

- Lorraine Ogilbee (Pottery Artist)
- Verna Solomon (Weaver)

Gifts to the Center:

Mr. Barry Lopez	\$150.00
Mrs. Carolyn Reyer	\$5,000.00
Albuquerque National Bank	\$250.00

Advisory Committee Members:

Chairman: Alfonso A. Ortiz, Professor, Anthropology
 Anita Alvarado, Assistant Professor, Anthropology
 Sam Deloria, Director, American Indian Law Center
 Beverly Mathews, Director of Student Services, Native American
 Studies Center
 Paul Resta, Associate Dean for Special Projects, Education
 William Siembieda, Director, Community & Regional Planning
 Paul Vassallo, Dean of Library Services, General University
 Resources/Library

Seminars Held During the 1981-82 Academic Year:

Title:	Date:	Participants:
Washington Center for Learning Alternatives	October 29, 1981	Host
Economic Development and the Law: A Tribal Perspective	November 4-6, 1981	12
Literature Reading by Maurice Kenny (Cosponsored by Dept. of English)	December 2, 1981	30
American Indian Image on Film	February 9-13, 1982	2,000 (various entries)
Human/Cultural Resource Economics	April 28-30, 1982	15
NAS Staff/Student Retreat	May 20-22, 1982	9
On Reservation Small Business Entrepreneurship	June 2-4, 1982	25

Courses Taught During the 1981-82 Academic Year:

Fall 1981

Course Titles	Instructors	Student Enrollment
<u>American Studies</u>		
221-001 SW Indian Communities*	Mathews, B.	24
321-001 Indian in Multiculture	Bannon, H.	27
<u>Anthropology</u>		
305-001 American Indian-N America	Ortiz, A.	39
306-001 South American Indian	Schwerin, K.	13
356-001 Southwest Archaeology	Kent, S.	18
385-001 Amer. Archeaol-N America	Binford, L.	15
537-001 Seminar SW Ethnology	Alvarado, A.	10
<u>Community & Regional Planning</u>		
570-002 S/Planning Prob N A Res*	Jojola, T.	7
<u>History</u>		
369-001 American Indian History	Ellis, R.	52
574-001 Seminar American Indian History	Ellis, R.	11
<u>Navajo (Modern Languages)</u>		
101-001 Elementary Navajo	Neundorf, A.	26
102-001 Elementary Navajo	Neundorf, A.	7
201-001 Intermediate Navajo	Neundorf, A.	6
497-001 Undergrad Problems	Neundorf, A.	2
<u>Political Science</u>		
310-001 Native Americans & Government	Harris, F.	34
<u>Sociology</u>		
507-001 T/Soc-Dev NM People	David, P.	4
<u>Public Administration</u>		
590-001 S/Indian Tribal Administration	Wall, S.	13

*Taught by Native American Studies Staff

Total	308
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Spring 1982

Course Titles	Instructors	Student Enrollment
<u>American Studies</u>		
302-005 St/Nat/Hopi Land Con	Kammer, J.	21
326-001 St/Ind Am Pop Cult*	Mathews, B.	19
<u>Anthropology</u>		
255-001 Ancient Southwest	Judge, W.	41
260-001 Southwestern Crafts*	Zastrow, L.	14
284-001 Ancient Mexico	Santley, R.	16
333-001 Ritual Symbols & Beh	Ortiz, A./Salvador, M.	37
338-001 SW Indians Modern	Alvarado, A.	14
384-001 Peoples of Mexico	Schwerin, K.	8
405-001 North Amer Ind Lang	Rushforth, F.	6
530-001 T/Native Am Ethnol	Ortiz, A.	9
<u>Community & Regional Planning</u>		
570-002 S/Cult Aspects/Planning*	Jojola, T.	7
<u>English</u>		
397-002 St/Native American Literature*	Tapahonso, L.	15
<u>History</u>		
360-001 History of New Mexico	Cutter, D.	66
381-001 Hist SW-Mex-Amer Per	Etulain, R.	13
<u>Navajo (Modern Languages)</u>		
101-001 Elementary Navajo	Willink, R.	24
102-001 Elementary Navajo	Willink, R.	8
201-001 Intermediate Navajo	Willink, R.	4
202-001 Intermediate Navajo	Willink, R.	4

*Taught by Native American Studies Staff

Spring 1982 cont.,

Course Title	Instructor	Student Enrollment
<u>Navajo (Modern Languages)</u>		
497-001 Undergraduate Problems	Willink, R.	1
551-001 Graduate Problems	Bills, G.	1
<u>Public Administration</u>		
590-005 S/Issues Tribal Org.	Wall, S.	11
<u>Women Studies</u>		
233-001 American Indian Women*	Emerson, G.	12
	Total	<hr/> 351

*Taught by Native American Studies Staff

Program Evaluation:

The 1981-82 academic year was involved primarily in program development. Ted Jojola continued as Acting Director of Native American Studies. The clerical aide workstudy position was upgraded to research aide.

The first half of the Fall academic semester was embroiled in Center controversy as sides were drawn on the issue of name changes for both the Center and the Kiva Club. It was proposed that the Native American Studies Center be changed to the Native American Center as to better reflect the equal split in program administration. Similarly, Kiva "Club" was seen as an outmoded archetype and an attempt was made to pick a more contemporary, representative name. Despite the consequent fervor among staff and students, no changes were committed.

The second half of the Fall semester was occupied with the planning and execution of a major film festival, The American Indian Image on Film: The Southwest, held February 9-13, 1982. The symposium brought together 44 producers, directors, actors, scholars, and tribal representatives in an event that saw 12 major seminars, 21 public showings, and the screening of 56 films. The symposium was unique in that it was sustained largely from in-kind and cash contributions with major costs being offset by admission and poster sales receipts. Hailed as one of the most innovative film symposiums of this kind in 10 years, numerous reviews and news articles were generated.

Aside of the symposium's intrinsic merit, however, the underlying intent for organizing on a national scale was the demonstration of the potential and viability of a Native American Studies program at UNM. To these points, significant inroads have been made toward national and regional visibility of the program as well as having spurred other institutions to attempt similar presentations.

The last half of the Spring semester was occupied with the resumption of normal academic programs. Having left behind an enormous wake from the film symposium, efforts were initiated to begin a major program re-evaluation for the Center. The first step in this process was a retreat for staff and students at the end of the term. Issues pertaining to the evolution, current state, and future of the Center were discussed. The goal of the retreat became the compilation of a 10-year development prospectus for the Center, to be released sometime during the 1982-83 academic year.

Program Assessment:

The assembly of the aforementioned participants in the Academic programs is proof positive of a viable American Indian program at the University. With the exception of the film symposium, all programs were sustained within the current fiscal budget allocation. Such notoriety, however, has both a positive draw as well as a negative. The positive element is the recognition and the credibility given to the program. The negative is the increased burden that its marginal resources are expected to bear.

Currently, Academic programs supports three distinct areas of program content. The first is cultural awareness programs or courses. Expectedly, the majority of people participating in these activities constitute non-Indians.

Such programming entails the identification of needs and consequent department negotiations for courses. Once committed, advertising and interviewing of part-time instructors is done. Every department has its own procedure and standards for affiliating part-time instructors. Because the part-time instructor resource pool for Native American studies topics varies from semester to semester, it has become increasingly difficult to answer to calls for proposals by every department. A case in point was the failure to meet the preliminary course listing for the Spring semester due to such negotiations. Though introduction courses (100-300 level) are popular with non-Indian students, only a relatively small proportion of Indian students take such courses. Instead, they choose to take methods courses in their respective disciplines.

Second, are courses oriented toward professional development. Here, it is found that many of the undergraduate and graduate students have enrolled in the University after having had previous professional tribal experience. Many times they continue their involvement in ongoing tribal liaison positions while doing academic work. Such students often comprise those who desire to develop areas of academic expertise consistent to their own tribal professional experience. One indicator of this concern has been the inauguration, this year, of a tribal administration certificate in Public Administration.

The third area involves the non-academic professional tribal community. As the Tribal Economic Development Seminars have demonstrated, tribal staff and their consultants have recognized the specific need to re-enter the university environment for job preparation. They see the University as an academic base from where they can be updated and exposed to current research issues and techniques.

As the figures on total student enrollment indicate, the greater enrollment occurs during the Spring (308 versus 351 for the Fall). This supports a contention that many such courses are optional for students. As required departmental curriculum loads lighten from the first half of the academic year, the second half allows more participation in optional course work.

As the office situation of Academic Programs stands, though, it has reached its optional level of operation in relation to the resources it commands. A director, secretary and research aide can hardly sustain the day to day coordination of a large and varied program. Moreover, there is a definite gap in Summer courses and programs. Only the department secretary remains to manage the office during the Summer months.

The Institute for Native American Development has become a moot component due to the lack of staff to pursue funding for research. Nonetheless, the publications have continued to give outside substance to the series. The first publication on Indian Economic Development for example, is in its fourth reprint. In fact, publications have become such an extensive operation that the Accounts Division has transferred all accounting responsibility to the Department Secretary. Ten percent of her time is now consumed by this which is outside of the purview of her assigned duties. Despite the addition of such new duties, a request for the upgrade of her position from Clerical Specialist V was denied this year by the Personnel Office.

Developments outside the University may add further credence to the support of the Institute. At New Mexico State, the Indian Resource Development and Internship Institute was created in the Spring. Under the directorship of the former director of the Indian Desk at the Department of Health, Education and Welfare, Kathryn Harris-Tijerina, it is expected that a major part of their

efforts will involve political lobbying. Similarly, the College of Santa Fe has now deemed appropriate to transfer their Native American Outreach Program from "soft" to "hard" monies. At a time when our Institute should be moving ahead, the present staff is over-extended to the point that no time can be released to program development, fund raising, and tribal outreach.

Future Recommendations & Prospectus:

More time should be committed by the Director in the development of a funding base for the Institute. It is recommended that projects for the tribal communities be represented through a new advisory position for a community representative at large. A separate, but a subordinate, coordinator position for the Institute should be considered.

Academic Studies must work toward a more cooperative and programmed interaction with students of the Kiva Club and Student Services. Office routine and Center operations must become more integrated. One definite step toward this is the creation of a position for an Indian student at large in the advisory committee. Student workgroups for all major projects should also be activated.

Future program development cannot be sustained at the present level of operation without the sacrifice or compromise of one or all program efforts. As the minutes of the second advisory meeting have indicated (March 5, 1982), a new assistant administrative post is crucial to release routine administrative demands.

ANNUAL REPORT FOR FY 1981-82
NATIVE AMERICAN STUDENT SERVICES PROGRAM

SUBMITTED BY:

Beverly R. Mathews, Director

August 24, 1982

ANNUAL REPORT FOR FY 1981-82
NATIVE AMERICAN STUDENT SERVICES

The Native American Student Services program at the University of New Mexico has seen through its second year of operation, (July 1981-July 1982), under the immediate supervision of the Administrative Vice President for Student Affairs. Designed to serve the special interests of Native Americans at UNM, the Student Services program has primarily served students in the following areas: (1) Academic Advisement; (2) Personal Counseling (3) Liaison for students between the UNM financial aid office and other tribal based programs; (4) Tutorial assistance based on academic need; (5) Regular disbursement of a monthly newsletter for Native American students enrolled at UNM, (6) Recruitment of Native Americans to UNM (7) Facilitator in addressing issues and projects locally and nationally, through workshops, special lectures, course work, and through community involvement projects.

For the record, midway through the year, the Ethnic Student Services program coordinators addressed their concern to the Administrative Vice President, Marvin "Swede" Johnson, questioning their appropriate titles with their respective centers. It was made official with the 1982-83 contracts that the title of "Director" replace the former title of "Coordinator". Therefore, throughout this report the use of title "Director" of Native American Student Services shall be employed.

Unlike the initial year of operation, Native American Student Services has established itself on campus as a resource for students and as an outlet for a variety of supportive functions among which have been in working with the Office of School Relations in developing a more comprehensive recruitment plan for Native Americans; to work with the other ethnic centers in cooperative efforts that best serves the university; and to work with all

other university departments to enhance the educational endeavors of Native Americans at UNM.

A monthly summary of services provided to Native American students is maintained by the Student Services program the purpose of which has been to keep abreast of the numbers of students being served, the types of services being rendered and to gather a general scope of tribal affiliations that students belong. The summaries for the academic year August 1981 through May 1982 are included for review:

Totals for Fall 1981 Semester

Financial Aid Information	26
Short Term Loan Referral	7
Request for Tutor	58
Academic Advisement	13
Other (Personal counseling-discussion)	<u>47</u>
Total	151

Totals for Spring 1982 Semester

Financial Aid Information	38
Short Term Loan Referral	22
Request for Tutor	27
Academic Advisement	9
Other (Personal counseling-discussion)	<u>35</u>
Total	131

Native Americans at UNM:

In a survey conducted by Native American Student Services in the Fall of 1981, the figures received by Native American Student Services through the university computing center indicated that for the fall semester 1981, 799 enrolled students were identified as "Native American". In the spring semester 1982, 717 students were identified.

Native American Student Services conducted its own survey of tribal representation at UNM in the Fall of 1981 using the computer list of Native American students a total of 527 were contacted either by phone or through

receiving services at the Center, 68 of those students contacted indicated that they were not Native American Indian. The remainder, 459, were asked their tribal affiliation, the results were rather interesting with the Navajo and Pueblo populations showing the greater number of representatives 239 and 184, respectively. Approximately 63 different tribes were found to be represented at UNM in the fall of 1981.

This survey was conducted as a means for gaining better insight as to the Indian student population at UNM, however, the task of such an effort is and was worth the information we received. (a copy of the survey results are included in the appendix of this report).

Special Activities and Events:

Native American Studies Film Symposium (February 9-13, 1982)

In February (1982), the Native American Studies program sponsored a major film symposium addressing the image of Southwest Indian films. The Student Service program assisted in all aspects of planning the project and was responsible for handling the off-campus student and community groups.

Titled, The American Indian Image on Film: The Southwest, the project was monumental success and brought a number of well-known scholars and film actors to the UNM campus for a week's stay.

Nizhoni Days: (April 8-11, 1982)

The Annual Nizhoni Days at UNM comprised a number of different activities this year including a special day set aside to honor the World War II veterans of Navajo decent who aided the country in winning the war. The "Navajo Code Talkers" were recognized by the UNM Kiva Club and other state and university officials, and were treated to a day of celebration

and praise for their service during the war.

A College Day Collective for Indian high school and college students was sponsored by the Native American Student Services program on Friday, April 9, using funds from the Alcoa grant set aside for the purpose of recruitment and retention. The Indian student organization (Kiva Club), worked with us in conjunction with the Office of School Relations, the day covered a variety of topics addressing Indian college student concerns and experiences while enrolled in college.

A panel of prospective Navajo Tribal Chairman Candidates and other events of the '82 Nizhoni Days were; a Pow-Wow; an Arts and Crafts Show; and the Miss Indian UNM Pageant and Talent Show as well as a dance off-campus. This year's Nizhoni Days program may well have been one of the most successful ever in its some twenty year history on the UNM Campus.

During Nizhoni Days Native American Student Services assisted the Navajo scholarship office in coordinating a dinner on campus for all enrolled Navajo students and their families. The event drew well over 300 students and their guests, however, it was unfortunate that so many other activities preceded the day in addition to, the poor acoustics so that the program envisioned by the Navajo Scholarship office, was overshadowed by noise and anxious energy.

Other Activities of the Student Services Director during the year: .

Participation in activities such as with the Dean of Students sponsored "Freshman Orientation" sessions provided an excellent means of informing those in attendance about the services we provide.

A special orientation specifically for Native American student was held in the UNM Union on the start of the fall term (1981). 30 students participated, the majority being first or second year students, these information sessions will continue to be held each fall term as well.

In April (1981) the Crownpoint Agency of the Navajo division of Labor contacted the program in the hopes of locating 10 Navajo students in need of additional funds for school. That being no problem to locate students the Director oversaw the students progress and submitted regular reports to the agency so that payments to the qualifying Navajo student could be processed. The program ended in June 1981 and of the original 10 students, 6 students were able to receive a minimal additional aid of \$250.00 each for the Spring Semester.

Participation in the University College advisement center bi-annual orientation has been ongoing.

The production of a monthly newsletter for UNM Indian students has been an ambitious project taken on by the project Director and will be continued as well.

The need for such a communication outlet was recognized, thus, the newsletter has become a resource for information and a means through which the Native American Studies Center disburses local and national Indian news items to students. (Sample copies are attached in the appendix of this report.)

A special recruitment project for Native Americans was proposed and carried through this academic year with the help of the Office of School Relations using the Alcoa Corporation Grant set aside for such purposes. On-site visits to selected Indian Communities with high enrollments of Native American in attendance at local public schools were targeted for recruitment visitations. Through local visits to Native Indian communities is hoped that a closer relationship between the University and the communities could be established. The communities of Laguna-Acoma, Shiprock, Zia, Zuni and the eight Northern Indian pueblo communities were visited. The tribal education offices, parents and tribal officials were especially pleased to learn about the services offered at UNM through the department. The visits were conducted in March, April,

and May 1982.

Committee/Community Involvement by the Director

The Director is an active member of the following university committees:

1. Student Personnel Advisory Committee
2. Native American Studies Advisory Committee
3. Women's Center Advisory Committee
4. Minority Coalition in conjunction with the Ethnic and Women Programs.

Advisory Committee for Native American Student Services

Organized in April 1981, the committee held two meetings during the year. The general focus of these meetings was informational.

The committee is relatively open-ended and responsive to the concerns of Native American at UNM, it is expected that the membership will be changing this 1982-83 year.

Committee Members:

1. Darva Randolph Chino
Counselor, Albuquerque Public School Indian Education
2. Fred M. Chreist, Jr
Director of Student Financial Aid & Career Services
3. M. Olga Gandara
Assistant Dean of Students
4. Ted Jojola
Academic Director, Native American Studies
5. Vivian Lewis
Director, Laguna Higher Education
6. Beverly Mathews
Director, Native American Student Services
7. Betty Ojaye
Special Services Advisor
8. E. Scott Rushforth
Assistant Professor of Anthropology
9. Jim Shorty
Director, N.A.P.C.O.E.
10. Cynthia M. Stuart
Associate Director of Admissions

Academic Involvement by the Director

These courses were offered by Native American Studies and have held enrollments of 21 and 18 students respectively and were taught by the Student Services Director.

Fall, 1981

American Studies 221. "Southwest Indian Communities." (3)

Spring 1982

American Studies 321. "The Indian in American Popular Culture." (3)

Assessment/Evaluation/Future Outlooks:

The 1981-82 academic year proved to be a testing ground in several respects. The program came into its own with a separate budget from that of the studies component at the Center. Despite some initial differences between the Acting Academic Director and the Student Services Director regarding territoriality, the differences were dealt with effectively and both programs have emerged with positive outlooks and support for one another.

The services provided to students through our office were varied, the majority of the Director's time and energy seemed to be in the area of recruitment and retention. As the year's calendar of events is reviewed the appearance of a more confident approach to seeming both enrolled and prospective students emerged.

It is not without some reservation that one could state publicly state that the Native American Center at UNM in cooperation with the Indian Student organization, the Kiva Club, had a noticable year of activities.

The support from the Office of the Vice-President for Student Affairs was encouraging.

A Native American Studies Center staff and student retreat was held in May (20,21,22), at the Hummingbird Music Camp in Jemez Mountains. At

that time the group, including the Student Services and Academic Directors, reviewed the history of the Native American Studies Center and analyzed the character of the Center in addition to developed a working model for the Center to function more effectively. The report for the retreat is being compiled by the Academic Director.

The Academic year 1982-83 appears to be one of continued progress. Certain areas of services will be expanded to include career development and closer attention will be paid to Native American student retention rates.

The Student Services Director will also begin to develop proposals for additional resources for the funding of special projects. Two such projects that are in serious need of funding are the newsletter and tutorial fund. A different kind of outreach to Native American high school students is being looked at, possibly a writing and speech contest sometime in the spring with some kind of incentive scholarship.

It is definite that the securing of additional money is a must to have the desired program and supportive services for Native American students.

More important, however, is the quality of services provided and maintaining contact with the students to ensure a successful stay at UNM.

NATIVE AMERICAN STUDENT SERVICES

BUDGET EXPENDITURES FY 1981-82

Salaries

Coordinator	\$24,925.05
Clerical	6,144.41
Workstudy	<u>488.91</u>
Sub-Total	30,069.46

General Supplies and Expenses

Telephone	229.79
Tutorial	740.50
Newsletter (ASUNM Dup Center)	368.32
UNM Photo Services	137.12
UNM Press (Final Newsletter)	341.00
Petty Cash	71.67
UNM Bookstore	27.75
Consultants	370.00
Special Programs (Nizhoni Days)	<u>200.68</u>
Sub-Total	2,060.94

Travel

Travel to Santa Clara Pueblo	89.08
Travel to Chicago (attend Institute)	<u>220.00</u>
Sub-Total	309.08
Total Expenditures	<u>32,439.58</u>
Applied Charges	<u><174.00></u>
	32,265.58

APPENDIX

Staff Employees for 1981-82 Academic Year

Beverly Mathews, Director, Native American Student Services (8/80-present)

Winona Shebala, Clerical Specialist, Native American Student Services
(8/81 - 3/5/82 terminated)

Kella Martinez, Temporary Clerical Specialist, Native American Student
Services

Judy Hernandez, Replacement permanent, Clerical Specialist, Native American
Student Services (8/16/82 beginning)

Janette Baldonado, Workstudy Assistant (8/81 - 5/14/82)

Indian Tribes Represented At UNM

Native American Student Services recently completed a survey on tribes represented at the University of New Mexico. The total number of students identifying themselves as "Native American" was 799. During the survey it was discovered that some 68 students on the list were not indians. This raises another interesting survey idea; whether or not Native American is sometimes confused with being a native of America. What is your preference?

Native American or American Indian?


The survey results were:

Navajo	234	Pine Ridge	1
Jicarillo Apache/Navajo	2	Eskimo	1
Hopi/Navajo	2	Crow/Creek	2
Cheyenne/Navajo	2	Apache	2
Navajo/Shawnee	2	Jicarillo Apache	20
Navajo/N. Cheyenne	2	Northern Cheyenne	5
Navajo/Laguna	2	Comanche	6
Navajo/Santo Domingo	2	Chaipon/Seminole	1
Navajo/Toas	2	Sisseton/Wahteton	5
Cherokee	5	Oneida/Iroquois	1
Cherokee/Creek	2	Warm Spring Agency	1
Cherokee Lumbee	2	Pauite	1
Sioux	8	Chickasaw	1
Sioux/Hopi	1	Kiowa - Choctaw	1
Rosebud Sioux	4	Arberdeen	2
Ogalla Sioux	2	Osage	2
Santee Sioux/San Juan Pueblo	2	Euchee/Creek	2
Creek	2	Apache/Laguna	2
Seminole Creek	2	White Mountain Ap.	2
Mescalero Apache	2	Cheyenne-Arapaho	3
Cheyenne	1	Mohawk	1
Hopi	4	Chippewa	1
Seminole	1	Shoshone Bannock	1
Winnebago	1	Hidatsa	1
Turtle Mountain	1	Menominee	1
Pawnee	1	Blackfoot	1
Alashkan-Talingit	1	Anadarko	2
Standing Rock	1	Mequakie Iowa	1
Gros Ventre	2	Cheetaw	2
Gabri Kino	1	Delaware Caddo	1

PUEBLO:

Isleta	22	Sandia	3
New Laguna	4	Zuni/Cochiti	2
Acoma/Toas	1	Toas	5
San Felipe/Isleta	1	Tesuque	2
Sandia	3	Zuni	20

Santo Domingo	12	Laguna	27
Acoma/Hopi	1	Acoma	11
Jemez	24	San Felipe	20
Zia	1	Cochiti	5
Santa Domingo/Isleta	1	Isleta/San Felipe	1
San Juan	9	Santa Ana	2
Nambe	2	Santa Clara	10

 THE UNIVERSITY OF NEW MEXICO



SEPTEMBER 1981

STUDENT

NEWSLETTER

"Wel - cum"

Years ago, when I was a child, my family attended the Annual Mescalero Apache Fourth of July Celebration. Upon our arrival to the camping area, we commenced to setting up our camp. Amidst the evening dusk, tucked down along the mountain and the strong smell of cedar campfires, I felt content. Warm. Happy. I looked forward to the weekend activities and to the Apache Spirit dancers. It appeared to me that everybody in our camp, too, was happy.

After establishing our camp, my mother, my aunt, my younger sister (who was seven years old at the time), and myself took a walk down the road to check out the area, 'see where things were situated.' On our way back up the dirt road, a middle aged Apache woman in traditional attire, dusty and bushy haired, stumbled out of the thicket. Raising her arms, with a big tooth-missing smile, uttered to us - "Wel - cum."

My little sister grabbed my mom's arm trembling in fear and informed her she was ready to go home immediately... To this day when my aunt sees my sister she always refers to her as "wel-cum."

For new students to the University of New Mexico, an analogy can be drawn from this story, students can be easily terrified by any number of things (but unlikely from bushy haired Apache women). Returning students are generally more seasoned but prone to the unappealing expectations of university study. Each semester at UNM, for that matter, any university provides good and bad experiences. The Native American Student Services program and the Native American Studies program are available to you as a support mechanism as well as a service provider. Such services include free tutors, personal counseling, academic advisement, information and referral and any other special projects that students can formulate.

Native American Student Services and Native American Studies are two separate programs housed at the Native American Studies Center. The Center is located on the main campus at:

1812 Las Lomas, N.E.

Phone: 277-3917

We welcome you to the Center and to the University of New Mexico.



HEALTH SERVICES INFORMATION FOR INDIAN STUDENTS ATTENDING COLLEGE

The Indian Health Service has been faced with increased cut-backs and is no longer in a position to provide services to all Indian people. Furthermore, IHS is requesting that all Indian students enrolled in full time study at any college or university, fill out an Advanced Indian Student Data form. These forms are available at the Native American Studies Center and can be left at the Center, after you have completed the form, the Center will mail them for you to the respective Area Offices.

More Indian students are participating in post-high school education programs than ever before. A commonly overlooked factor in going away to school is health care. All too often his/her dependents are faced with payments for medical and dental emergencies for which no preparation has been made. Please stop by the Center and fill out the appropriate form and avoid an unnecessary hassle this semester should you become ill.

AMERICAN INDIAN LAW STUDENTS ASSOCIATION
OPENS RECRUITMENT DRIVE
FOR 1982-1983

activities

Albuquerque, New Mexico - The American Indian Law Students Association is offering assistance to all Indian persons interested in applying to law school for the school year beginning in Fall of 1982. The deadline for application to many schools is quickly approaching and it is important that Indian applicants begin the process immediately.

"KIVA CLUB"

ORGANIZATIONAL MEETING
TUESDAY, SEPTEMBER 15, 1981
4-5 PM NATIVE AMERICAN STUDIES
1812 LAS LOMAS, NE,

Although the number of Indian lawyers is growing, Indian people remain under-represented on a nationwide level. Intelligent, dedicated and hardworking Indian people are needed to bolster the ranks of Indian lawyers who are assisting their tribes or other Indian people to achieve adequate legal representation.



Indian people interested in law school should immediately contact AILSA and the American Indian Law Center in Albuquerque. The Law Center sponsors the Special Scholarship Program in Law for American Indians. The Program provides Indian Law students with a stipend for living expenses while they are in law school. The fate of the Scholarship Program is as yet undecided in the wake of present budget cutting. However for further information about the program itself and its continuance, contact the American Indian Law Center. Further inquiries should be addressed to the American Indian Law Students Association, 1117 Stanford, NE, Albuquerque, New Mexico, 87131. Prospective applicants may also call Thomasine Ross, Director of the Scholarship Program, at (505) 277-5462

Windwalker

Now he walks the winds of eternity!

TREVOR HOWARD is the WINWALKER. **PG**

Starring **NICK RAMUS** • **JAMES REMAR** and introducing **SERENE HEDIN**
Produced by **ARTHUR R. DUBS** and **THOMAS E. BALLARD** Music by **MERRILL JENSEN** Directed by **KETH MERRILL**
A PACIFIC INTERNATIONAL ENTERPRISES INC. RELEASE Color by C.F.I.

Native American Student Services has secured the film, "Windwalker", which will be shown at the UNM Sub-theater on Tuesday, September 15 at 8:00 P.M. The cost will be \$1. 50 students w/I.D, \$2.00 for others, \$1.00 for children. If you have not seen this motion-picture, COME & SEE IT. The photography is excellent, despite the unusual story-line. This presentation is being sponsored by the NASC Student Services in conjunction with the ASUNM Film Committee in hopes of fostering a greater awareness and exposure of Native American Indians in North America. Again, please come the see it!

Events

- Sept. 19 - Laguna Pueblo: Annual San Jose Feast Day. Eagle, Buffalo and Corn dances. Carnival. Old Laguna Village.
- Sept. 23 - Albuquerque: Indian Day at the New Mexico State Fairgrounds. Crowning of Miss Indian New Mexico, 2 p.m.
- Sept. 25 - Laguna Pueblo: Annual St. Elizabeth Feast Day. Harvest and Social dances. Paguate Village.
- Sept. 29-30 - Taos Pueblo: Annual San Geronimo Feast Day. 29th: Sundown dance. 30th: War and various dances, ceremonial races, pole climbing and trade fair.

"Events" courtesy of Pueblo News

ASSOCIATION OF AMERICAN INDIAN PHYSICIANS'
PRE-ADMISSION WORKSHOP

Many Indian students have expressed an interest in the Health Career pathway. They want to know and understand the "system" of becoming a health professional. The Association of American Indian Physicians (AAIP) will be holding a Pre-Admission Workshop answering the questions: How to select a professional school. What tests you will be required to take. When to take the tests and test taking tips. How and when to complete a professional school application and make it strong for consideration. The admissions process, including the professional school admissions interview (including a mock interview for each participant). Common problems faced by Indian students. Financial aids, and other such topics that Indian students should know when pursuing a health profession.

To qualify, you must be Indian (submit a certificate degree of Indian blood, and/or a letter from your tribe certifying you to be a tribal member) and currently enrolled in an undergraduate pre-professional education course that will take you into one of the following fields: medicine, osteopathy, dentistry, veterinary medicine, optometry, podiatry, or pharmacy. Also, please include a copy of your most current transcript.

Students will be selected on the basis of Grade Point (GPA) and year in school. If selected, you will receive round-trip air fare to and from the workshop site plus \$20.00 per day to cover room and board, plus a wealth of information from the workshops, (26 of 80 participants are currently in a health professional school with others scheduled to enter a professional school at a later date).

If interested in attending the AAIP workshop, please complete this application immediately and return to:

Association of American Indian Physicians
6805 South Western, Suite 504
Oklahoma City, Oklahoma 73139

If you have further questions, you may call collect, station call, (405) 631-0447.

The workshop is tentatively scheduled for November 14-15, 1981, and will be held at a site central to the participants. You will be notified later of the exact location. Applications are available at the Native American Studies Center from the Student Services Coordinator. Deadline for submitting applications is September 14, 1981.

AMERICAN INDIAN-ALASKA NATIVE WOMEN
HAVE YOU...CONTRIBUTED TO BETTER THE LOT
OF INDIANS...WORKED TO ADVANCE OPPORTUNITY
FOR WOMEN.

"OHYO RESOURCE CENTER"

If so, the Resource Center invites you to register for listing in the updated, 1982 edition of the "Resource Guide of American Indian-Alaska Native Women". Through autumn 1981, a national search is being conducted in Indian Country to identify ALAN women who have been active in advocacy issues professionally or as a volunteer - past, or present - on behalf of Indians and women. Registration forms are available from the Native American Student Services Coordinator.

Ohoyo Advisory Board has determined definition of Indian for purposes of listing: Guide to be "one who identifies self as such and is so identified by an American Indian Alaska tribe, nation or community." Final selection of entrants will be determined by the Ohoyo Advisory Board.

"EMPLOYMENT OPPORTUNITY"

UNDERGRADUATE TEACHING POSITIONS AVAILABLE - SPRING 1982

NATIVE AMERICAN STUDIES - UNM

AMERICAN INDIAN WOMEN

Women Studies 233-001
Tues/Thur 9:30-10:45

The course will identify issues common to all women, but will primarily focus on those unique issues which effect the lives of American Indian women residing in communities (on and off reservations/villages) in the Southwest. Political, economic and social issues which impinge upon the changing role of American Indian women will be the focus of the course.

Resource people will be invited to explore and analyze issues related to cross-cultural encounters in which Indian women find themselves.

Policy implications, especially related to education, will conclude the course.

APACHE HISTORY

History 220
Tues/Thur 5:30-6:45 p.m.

The course is intended to give a survey of Apache cultural history from pre-European contact to contemporary reservation developments. Special emphasis will be given to American Indian policy formation with the Apache tribal bands in the Southwest.

Various written and documented verbal accounts will be used to illustrate case materials. The course will conclude with a discussion of the mismatch between the American popular image of the Apache and the Apaches' own real-world view of the dominant society.

CULTURAL CONTEXTS OF SOUTHWEST CRAFTS

Anthropology 260-001
Tues/Thur 9:30-10:45

The course is intended to present socio-economic, cultural and historical factors that have contributed to the contemporary survival or revival of Southwest Native American crafts. Particular emphasis will be given to the importance of traditional forms of pottery, textiles, jewelry, and art in the maintenance of tribal integrity. The role of innovation, Pan-Indian influences and individual expression will also be discussed.

NATIVE AMERICAN LITERATURE (MODERN)

English 397-001
Tues/Thur 2:00-3:15

Analyzes the interpretation and role of contemporary literature written by Native Americans. Reading of major works by Southwest authors since 1900. Includes a survey of literary forms such as poetry, novels, plays, and short stories. Emphasis will be upon the emergence of the Southwest Native American viewpoint, its presentation through the written medium and the refinement of such presentations.

SALARY: \$1200 to \$1890 depending on qualifications.

DEADLINE: Wednesday, September 30, 1981

Submit letter and resume to:

Native American Studies Center
University of New Mexico
1212 Las Alamos Dr., NE
Albuquerque, NM 87131

For more information contact: Ted Jojola, Director (505) 277-3917.

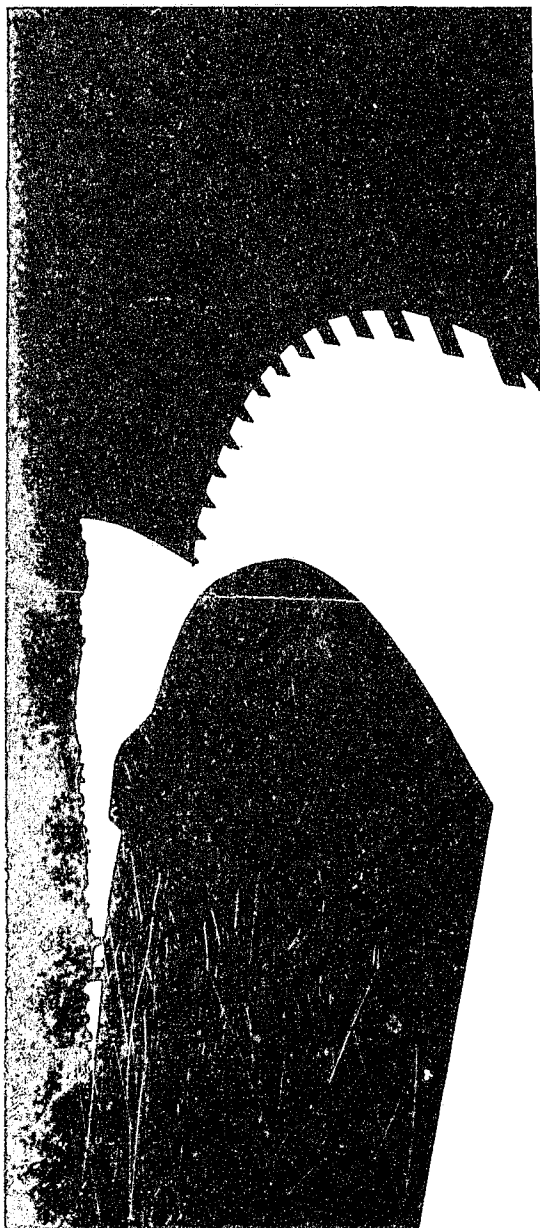
"PICNIC PLANNED"

The Native American Studies Center would like to sponsor a picnic for all Native American students some time early in October. Be on the look out for further details.

"AFTER-THOUGHTS ABOUT THE NEWSLETTER"

As students at the University of New Mexico, who also happen to be American "Indian", I am, requesting your assistance in establishing a newsletter that is worth the paper its printed on. Should you happen to be a budding writer or a closet phil-anthropist; stop by the Center to discuss your charitable contribution to your newsletter.

University of New Mexico
Native American Studies Ctr.
1112 Las Lomas NE
Albuquerque, New Mexico 87131



A NEWSLETTER

for students
at UNM

About the ethnic
student programs

December

1981



SPECIAL NOTE ABOUT THIS NEWSLETTER

"THE GENERATION GAP"

This special newsletter comes to you with the hope that you will become just a little more informed about the people, programs, and activities that are at the University of New Mexico. However you may choose to identify yourself, this newsletter represents three different student populations found at this institution, namely; the Afro-American or Black student, Chicano or Spanish student, and the Native American Indian student. The Student Services programs responsible for these particular student populations have joined together to bring you this newsletter. As a service and as a unified venture, we encourage your participation in various activities sponsored by the Centers. While the Program Directors share the mutual goal of supporting all students on this campus in whatever ways that we are able to ensure success as students, we also need your support and creativity to keep us abreast of your concerns, needs, and interests.

---Antonio, Beverly and "Juba"

BY CHANCE

Ernesto Jose Belgara 11/24/72

I learned a lesson
Last night
I learned of life
And I learned of strife
I learned that life
is an unforgiving cuss
If a man is careless
As he stpes along the way

For chance is only chance
And fate is fate
But not by chance

So a man most think of life
And chance and fate
But not by chance
Should a man dictate
The fate of his moves in life

For like in chess
If by chance and not by thought
A man does move
His life will end
In sadness and defeat

By George McAuliffe

An old man sat in the evening
sunshine
a small frame man trim and neat,
flannel shirt and faded demins,
his faithful dog by at his feet

Some teenagers, on a party
studied him from nearby
thought him strange, peculiar
different
and began to reason why.

All he knows is horse and wagon,
can't even drive a car
smiled a youth while reminiscing
I wonder how he got this far?

They say he lived in shanty houses.
with no plumbing or bath at all
I wonder why they lived so stupid,
asked a painted teenaged doll.

They say they ate mostly rabbits
and all kinds of weird ole roots
and look at the funny way he dresses
moccasins, instead of boots!

Then they departed, in a Trans Am
a car someone's Dad had bought.
The old man's heart heavy,
heavy for times had changed
and he had not.

As he sat there wandering, thinking
a tear came to his kind old eye
I've lived too long, I don't belong
my place is in the days gone by.

Then down the road, running, bouncing
came a lad with his .22
Gramps! Gramps! Lookit! Lookit!
I shot a rabbit, just for you!

I'll help you cook'em, stya for supper
I guess you know the reason why.
I want you to tell me, while we're
eatin!
Of them good ole days gone by.

The old man's spirit was up-lifted
as they built the evening blaze,
Two "old-timers" by the fireside
living again them "good ole days."



50
AFRO-AMERICAN STUDENT SERVICES
INFORMATION SHEET



The Afro-American Student Services Program offers many benefits to Black students, on campus and within the community. The following are some of the services made available by the Afro-American Center's Student Services Director. Services provided:

- Career and Academic Counseling -
- Registration Assistance-
- Tutorial and Financial Aid Information-
- Emergency Student Loan Fund-
- Scholarship Information-
- Career Preparation Seminars-
- Full and Part-Time Employment Information-
- Typewriter and Emergency Typing Service-
- Study Area-

OTHER SERVICES PROVIDED ARE:

- Free Telephone Service (local calls only)
- Black Student Union Office
- Black Fraternities and Sororities mail boxes

SPECIAL SERVICES AND PROGRAMS

"The Black Experience" Television Program
A bi-monthly public service program which focuses on a variety of concerns pertinent to local as well as national Black communities.

Afro-American Student Services After School Academy

The program staffed by volunteers is designed to motivate excellence in the scholastic development of children. Offered free during the Fall, Spring, and Summer.

College Experience Day

This program is designed to give high school students an opportunity to come to the University campus for a full day to attend classes with students and participate in other student activities.

Senior Recognition Day

Afro-American Student Services and Black Student Union co-sponsor this event to congratulate graduating Seniors at the University. This program allows students and faculty members to salute these

students.

The staff of Afro-American Student Services would like to welcome you to the University of New Mexico and offer any assistance you may need to make your stay as comfortable and academically rewarding as possible.

Stop by 1819 Roma NE or call:
Afro-American Center 277-5644

SEE YOU SOON! Juba Clayton, Coordina
Afro-Amer. Student S

ONE DAY IN JANUARY

*(I'm walking towards a destination
across the field. August, October.
...whatever...)*

*My boots are making crunching
sounds on frozen crusty grass,
and I know what never was my
future is now my past.*

*This wicked wind is
a kind summer breeze
compared to your oblivion
of me in your dreams
Your apathy and sympathy and
those silly schemes
has erased my tomorrow
Or so it seems*

*Know my impact on this madness
and how I wish that this cutting
wind would take me away to a better
place, some far off place, that
remote patch of an island somewhere
in the corners of my mind where the
memories of you can never reach.*

*Wind, take me high into a frigid sky,
bury me deep in the cold arms
that embrace this season.
Just blow me far away and please
far away from this day.*

*From the United Anthology
Copyright Mattie Wakefield 1976*



NATIVE AMERICAN STUDENT SERVICES- A Reality at the University of New Mexico

The services provided to Native American Indian students by the Student Services Program are seemingly like those offered any where on this campus by other student personnel offices. One major difference is that the students are afforded the opportunity to receive services from an Indian perspective. An explanation is in order. While Indian people have managed to overcome the difficulties and hardships of the not so distant past, there are constant reminders of our heritage on this campus. Several UNM programs and departments not specifically designed to serve only Indians, utilize a variety of Indian symbols and graphic art depictions in their publications and brochures. This being the most obvious, other aspects of material Indian culture are found in UNM President Davis' office, where a fine collection of pottery adorn the shelf. It is pleasing to see that others have found special qualities in Indian artifacts as well. Perhaps what is even more prevalent aside from the art is the fact that there are over 700 Indian students enrolled at the University of New Mexico, representing over 100 different Indian tribes in the U.S., including Alaska.



It wasn't so long ago that only a handful of Indian students attended UNM, while the numbers have increased so has the number of Indian graduates. Last year, 130 or so Indians earned their degrees from this university. Yet, it always seems that Indian people are just a few years behind everybody else in making strides of progress. One explanation for this might be that-patience, endurance, and a strong mind have been and will always be those characteristics that embody the people known as Native American Indians.

Native American Student Services is a reality at the University of New Mexico both in program offerings and in spirit. We welcome you to the Native American Center if your in need of information on just about anything at UNM; tutoring; scholarship information; attention; counseling; coffee; tea; or good conversation! And more.

-Beverly Mathews, Coordinator
Native American Student Services

FINANCING COLLEGE IN 1982

A 30-minute presentation, "College? You Can Afford It In '82," will be shown on KNME-TV Channel-5 Saturday, January 16 at 9:A.M. and on Sunday, Januray 17, at noon. The show will cover college loans, grants and work-study programs available to college bound New Mexico students. This information is for all students needing federal assistance to finance their education at a college or university of their choice.

FINANCING COLLEGE IN 1982

Courtesy of Pueblo News

Children's Christmas set

THE FOURTH ANNUAL Indian Children's Christmas is scheduled at the Indian Pueblo Cultural Center Dec. 19.

Sponsored by the Center to foster goodwill and the spirit of Christmas among all people, the festival will feature traditional dance performances by children ages five to 12 accompanied by singers and drums in the center's outdoor plaza.

In appreciation for their entertainment, the center will present Mr. and Mrs. Santa Claus, gifts, candy, nuts and fruit to all the performers.

Festivities will begin with the lighting of the traditional Christmas bonfire at 1 p.m. with dances and Santa's program to follow.

The event is made possible through donations. Persons who can help should call Jim Trujillo, center director, at 843-7272.

Admission to the event is one toy.

IPCC December hours set

THE INDIAN PUEBLO Cultural Center has announced special hours for the center during the month of December.

The museum will be open Monday through Saturday from 9 a.m. to 5 p.m. and on Sunday from noon to 5 p.m.

The restaurant will be open from 8:30 a.m. to 3:30 p.m. Monday through Saturday and from noon to 5 p.m. Sunday.

The gift shop will be open from 10 a.m. to 5 p.m. Monday through Saturday and from noon to 5 p.m. Sunday.

The center will be closed Dec. 25, 26 and 27.

TALKING ABOUT . . .

CHICANO STUDENT SERVICES

By A.T. Chavez
From the "LOBO"

Helping students survive at the University of New Mexico is a major concern of Antonio Mondragon, Director of Chicano Student Services.

He said Chicano Student Services was created in 1973 when Tobias Duran became Director of Chicano Studies.

I was the Director of Chicano Studies in 1974 and Tobias Duran was my assistant. He was in a PH.D., program, so we wrote a proposal that he take over the academic portion for Chicano students." Mondragon said.

Since that time, Mondragon has been Director of Chicano Student Services serving Chicano students with an "open door policy".

"Whenever someone feels they need help, they can come here," he said.

Chicano Student Services offers help with financial aid information, admissions, records, and employment, he said.

"We are a mini-employment agency for students who don't qualify for work-study," he said.

Mondragon said Chicano Student Services gets job descriptions from places around town.

He said he also helps parents of students who are unemployed.

"If I can help a parent of a student find a job, I'm helping a student stay in school," he said.

In the past, Mondragon said he has accompanied students to meetings with counselors and deans about suspension and grievances against faculty members.

"I go with the student to talk with a faculty member he thought didn't treat him fairly," he said.

Mondragon said one of the problems with the personal approach of Chicano Student Services is "Sometimes we have students waiting in line four or five deep."

"If we had more staff, we would be able to work a little bit better with the students," he said.

He said one of the problems with not enough individual attention is that sometimes students become frustrated with the university system and "withdraw with their fee."

"These students do not officially withdraw and have trouble when they want to get back," he said.

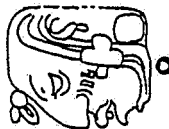
He said this in turn affects recruitment.

"They go back home and tell others how nasty it was over here at the university," he said.

But Mondragon said the personal service is rewarding when "Students drop in and tell me they are doing great because of something I've done."

He said the problems he deals with just take time.

"I work with some students the whole semester, but others who come in, we solve problems with one phone call." Mondragon said.



UNM'S BLACK STUDENT UNION IS "DOIN IT"

A NOTE FROM THE PRESIDENT

This year Black Student Union has been very active on the University of New Mexico campus and throughout the Albuquerque community. During the month of October Black Student Union produced a debate between Dr. Lenton Malry, an ex-New Mexico State House of Representatives and Mal Mason, co-chariman of the newly formed Black Independent Party. The topic was whether or not Blacks in America should form their own Political Party. Also during October, BSU in cooperation with the Afro-American Center brought to UNM, Mr. C.L.R. James, a world renowned historian. Mr. James topic of discussion was Approaches to History.

During November, BSU sought to increase the amount of capital for its scholarship Fund by having a T.V. raffle and a Cultural Dance. Both events were successful in helping us reach our goals.

Next semester promises to be even more exciting as BSU plans for Black History Month in February 1982. Our guest have all been notified and have excepted BSU's invitation to appear here at UNM.

Those guest appearing are as follows: The Ambassador from Granada, Owner and Editor of the Black Scholar Magazine, Mr. Mal Mason Co-Chairman of the Black Independent Party, Taj Mahal a Jazz entertainer, and a host of Poetry Recitals orgainzed by our Black History Month Committee Stephen Haymes chairperson.

This year has certainly been exciting for BSU members and better things are in store for 1982. Hope to see you at the next BSU production.

Sincerely,

Frank G. Parks
President, Black Student Union
University of New Mexico

A MESSAGE FROM THE OFFICE OF "KIVA CLUB"

"KIVA CLUB" a Native American Indian Student organization had a rough semester this year. To uncover the old roots planted before and plant new ones was and is a major task for the club.

Since the establishment of the Club in 1955 to the present it was formed as a club for social purposes, but it expanded through the years to include academic areas of concern as well as issues of importance to American Indians across the nation.

The climax of Kiva Club activities was in the last 1960's and early 1970's. By students voicing their concerns to university administrators, Kiva Club helped establish the Native American Studies Center at UNM. Presently the Center includes an Academic Program, Student Services, and the Kiva Club.

In September the Kiva Club held it's first meeting with the purpose in mind to set goals that we would like to accomplish during this academic year.

One major concern of the members is to establish a program to provide orientation and adjustment to compus life for incoming new students

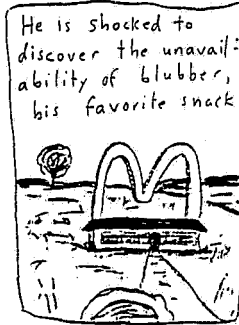
We are now in the proocess of planning for the Nizhoni Days which is held every spring semester. The Nizhoni Days is a event which presents an awareness of Native Americans to the public. Tenative dates for the Nizhoni Days is April, 8, 9, 10, 1982.

To be in harmony and unity with one another or one's self or even that of a club, one must be able to express him or herself to gain what is wanted.

The Kiva Club always has its doors open to all people. Feel free to visit, new ideas are always needed and appreciated.

**HOLIDAY
GREETINGS**

NANOOK GOES SOUTH



R. Christ

A STUDENT LOOKS AT AFRO-AMERICAN STUDENT SERVICES - "ONE YEAR LATER"

TO My Fellow Students,

As I look at Afro-American Student Services one year after it's creation I can honestly say that the many services available to all students, not only Black students, have been and are extremely useful.

I am specifically referring to the academic and personal counseling and career information services. As a graduating senior, the counseling has helped me to minimize the many overwhelming questions and obstacles of choosing a career and adjusting to the campus environment. Also it has helped me in investigating the possibility of attending graduate school.

Afro-American Student Services also offers a tutorial program that I must say is an excellent program. Many minority students have had too few opportunities or advantages in the Basic Skills areas. I myself, lacked appropriate writing skills in my Freshman and Sophomore years. Thus my grades and papers suffered greatly. I cannot say that I have used this service, but I see it as a vital organ for any student in need of tutorial help.

I am also impressed with the supportive academic environment that Afro-American Student Services and the Center stresses. The conference room at the Center is a place for quiet studying and is not only essential, but reflects the seriousness of the Center to provide Academic support. The Student Services component of the Center understands the importance of creating or instilling in students good study habits through discipline. Student Services also counsels during difficult times, when positive reinforcement is necessary, Juba is always there.

In retrospect, the past year at Afro-American Student Services can be described as CHANGE swift and positive for the benefit of students at UNM.

I have not sought out all of the services available at the Center, but I realize that without them, Black students would have no other department to turn to for this kind of caring assistance. In my opinion, no other department can offer ethnicity, identity, sensativity, personal and academic help in quite the same way as Afro-American Student Services.

To the faculty and staff of the Center, hang in there. We need you.

Pat Isacc

SPECIAL COMMENTARY: Navajo Tribal Election, 1982

With the country's economy in a state of recession, Americans are suddenly being jolted to the realization that we are in different times. For many Native Americans, particularly those living on reservations, the realization that they had become accustomed to dependency on federal dollars for employment and/or services comes especially hard. Because of the recent federal cut-backs, nowhere is the unique federal-tribal government relationship strained more than on the Navajo reservation. Republican leaders are coming under fire--Peter MacDonald, chairman of the Navajo tribal council, is one such elected official. For MacDonald, who is completing the final year of three consecutive 4-year terms, the 1982 election appears to represent what many observers consider the first true opportunity that the Navajo people have had to critically assess his accomplishments--the general feeling is that he has had more than ample time to formulate and implement his programs. While accomplishments of the MacDonald administration have generally been viewed as economic ones including increased tribal revenues (partially from renegotiated royalties from several long-term mineral/mining leases) and the visible emergence of the private business sector on the reservation, many level the charge that MacDonald has effectively made the office of chairman of the Navajo Tribal council one of almost absolute power (Gallup Independent, 11/10/81).

Ray Baldwin Louis, reporter for the Navajo Times, ran a two-part series (6/11/81 and 6/18/81) on the topic of possibly identifying a strong challenger to MacDonald for the 1982 election. While the majority of the individuals interviewed by Louis indicated that MacDonald should be replaced, a few stated that they wanted an "educated, young, Navajo-speaking" chairman. Louis also reported that in the eyes of the younger Navajos, MacDonald's greatest weakness is his apparent tendency to elevate personal aspirations to unwarranted levels.

A major blemish on MacDonald's record is the passage of the Navajo Relocation Act in the summer of 1974. Many Navajos now feel that MacDonald should have been more actively and consciously involved in the defeat of the bill before becoming PL 93-531 (Louis, Navajo Times, 2/15/81). Instead, MacDonald was busily shoring up support for re-election in November, 1974 (Kammer, The Second Long Walk: The Navajo-Hopi Land Dispute, UNM Press, 1980).

While MacDonald has not personally given any indication (traditionally, he has done so at Teec Nos Pos, Arizona in early June) that he will seek a fourth term, MacDonald's executive administrator was quoted (Navajo Times, 11/25/81) as stating that he expected the continuation of MacDonald's tenure for at least two more terms. Presently, announced challengers include tribal councilman Jack Jackson and DNA director Peterson Zah. Announcements are also expected from PHS-physician Taylor MacKenzie and former-chairman Raymond Nakai, both candidates in the 1978 election.

Tacheeni Scott, Ph.D.
Albuquerque, N.M.

December 3, 1981

While the political platforms of the challengers are yet to be announced, it is clear that MacDonald's past defeats and shortcomings will be magnified by the current diminution of federal dollars on the Navajo reservation.

"REFLECTIONS AT THE CLOSE OF ANOTHER YEAR-"
...or "food for thought"

BLACK POETS

M.L.R.
3/3/81

- 1-as i grown older, things seem better than
i thought they would be.
- 2-i have gotten more of the breaks in life
than most of the people i know.
- 3-this is the cheeriest time of my life.
- 4-i am just as happy as when i was younger.
- 5-my life could be happier than it is now.
- 6-these are the best years of my life.
- 7-most of the things i do are boring or
monotonous.
- 8-i expect some interesting and pleasant
things to happen to me in the future.
- 9-the things i do are as interesting to me
as they ever were.
- 10-i feel old and somewhat tired.
- 11-as i look back on my life, i am fairly
well satisfied.
- 12-i would not change my past life even if
i could.
- 13-compared to other people my age, i make
a good appearance.
- 14-i have made plans for things i'll be
a month or year from now.
- 15-when i think back over my life, i didn't
get most of the important things i wanted.
- 16-compared to other people, i get down in
the dumps too often.
- 17-i've gotten pretty much what i expected
out of life.
- 18-in spite of what some people say, the
lot of the average human being is getting
worse, not better.

I am a valuable and talented person.
Now is the time to
Remove my self-doubt
To look
inside for truth

Things do take time
and true things last.....Forever!
I Found God in Myself and
I Loved Her Fiercely!

Things take time
and true things last forever.
Time to Remove Self-doubt,
The truth is inside.
I Found God in Myself
And I Loved Her Fiercely!

Remove.....
The Truth is inside
I Found God in Myself
And I Love Her Fiercely,
I Love Her Fiercely.
In Myself and I Love Her!
More Fiercely! I Love Myself,
Inside I Found her.

God, Love, Myself,
I, Fiercely, Found,
Myself...
Here.

Great Spirit, I may find victory today
or I may find a defeat tomorrow but
let me not defeat my oneself.....

Becenti



MERRY CHRISTMAS
WE LOOK FORWARD
TO YOUR RETURN
IN THE SPRING.

AGREE/DISAGREE/INDIFFERENT..your thoughts
are your own.

University of New Mexico
Native American Studies Ctr.
1812 Las Lomas NE
Albuquerque, New Mexico 87131

UNM Native American



student newsletter

The American Indian Image on Film: the Southwest

February 9-13, 1982

presented by

NATIVE AMERICAN STUDIES
UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NEW MEXICO

Another Semester At UNM

--Well here we all are, back at UNM. I guess I shouldn't sound so pessimistic, especially since I work here. As you may have noticed (at least I hope you did), there was not a January issue of this newsletter. One of the reasons we put ourselves through the exercise of putting out this newsletter is to provide students with the option to learn about various activities and relevant information about Native American activities on and off campus. ...My work study helper just asked me (I don't think she'll mind me using her as an example), "Where is Tulsa?... In Arizona?" I laughed. She then discovered that it was in Oklahoma. As I was saying before the humor, which is quite timely, this newsletter is primarily for Indian students at UNM. If you have questions about almost anything give us a call and we'll try to answer them. Otherwise, you may discover the answer yourself just by asking. No question or inquiry while in college should be left unanswered.

Some concern has been expressed by students about the timeliness of the newsletter, i.e. receiving it in the mail a month late. My suggestion to you is that you come by the Center even if we are all the way across campus, and pick up a copy before the end of the month.

This being the Spring semester I expect that some seniors are preparing for graduation. My best wishes to you this semester, it will be over soon. The Student Services program is planning to honor all graduating Indian students at a luncheon, April 9. I really shouldn't jump the gun--just yet--so just forget I mentioned this until a couple of months from now.

I invite you to the Center to take a look at some of the catalogs from numerous universities across the country. We sent off requests for updated catalogs and have received about 50 or so.

I like to think we're okay people here at the Native American Studies Center should you have nothin' better to do between classes stop by. From all of us, have a good semester.

Beverly Mathews, Director
Native Amer. Student Services

STUDENTS NEEDED TO HELP RECRUIT FOR UNM

If you enjoy meeting people and sharing your college experiences with others then you may be interested in helping out with recruiting Indian high school students to UNM.

At least two Indian students are needed to travel to several Indian communities in New Mexico. These visits will be made in February and March. If interested, call for an appointment with Beverly Mathews at 277-3917. These visits will be planned accordingly with your schedule.



FINANCIAL AID DEADLINE IS NEARING....

March 1, 1982 is the deadline for applying for financial aid for 1982-83 federal grant and loan programs. BEOG; SEOG; NDSL; and College Work Study are included in this category.

With talk of more federal budget cuts--a word to the wise--"get your applications in now."



Kiva Club

The Club is planning for their annual "Nizhoni Days," to be held April 8-11. If interested in their activities call 277-5750.

--SPECIAL SERVICES/UPWARD BOUND PROGRAMS--

By Betty Ojaye, Spec. Serv. Counselor

The primary goal of the UNM Special Services program is to increase the retention and graduation rates of disadvantaged students who otherwise would not complete a course of study without supportive services. Special services are available to students who are disadvantaged by low-income background, educational background, cultural background, have limited English speaking ability or are physically disabled. Services available include special classes, tutoring, counseling and guidance. The program also provides cassette recorders, transcribers, manual interpreters and readers for disabled students.

The UNM Special Services has recently experienced growth to include the acquisition of the Upward Bound Program. Upward Bound is federally funded under the same authority as Special Services, Title IV, of the Higher Education Act of 1965. It's purpose is to orient and prepare student participation for eventual placement in an institution of post-secondary education. The program has a summer and academic year component. The summer component provides a six-week residential program on the UNM campus during which students receive intensive tutoring and instruction, guidance and counseling and motivational experience designed to develop positive attitudes toward education. The academic component brings the project participants onto the UNM campus every Saturday during the regular school year to receive essentially the same services as the summer component. Presently there are 100 high school students from the Albuquerque Public School System in the Upward Bound Program.

Juan Candelaria directs both the Special Services and Upward Bound Programs supported by proficient staff members in both programs. University students who want information regarding "special services" may call 277-3506, Mesa Vista Hall 2017. Appointments may be made with Ricardo Martinez, Counseling Psychologist, Mary Adams Trujillo, Counselor or Betty Ojaye, Counselor.



NEWSPAPERS AVAILABLE AT NASC

FOR YOUR INFORMATION: RECENT EDITIONS OF THE NAVAJO TIMES AND PUEBLO NEWS ARE FOR SALE AT THE CENTER. WE ALSO RECEIVE VARIOUS OTHER NEWSPAPERS AND LETTERS FROM OTHER TRIBES AROUND THE COUNTRY THAT YOU ARE WELCOME TO STOP BY AND READ.

ASSOCIATION OF AMERICAN INDIAN PHYSICIANS
PRE-ADMISSION WORKSHOP

SPRING 1982

Tuscon, Arizona has been selected for the site of the upcoming Pre-Admission workshop sponsored by the Association of American Indian Physicians. Deadline for applying to attend the workshop is March 1, 1982. Applications are available at the Native American Studies Center, 1812 Las Lomas.

The purpose of the workshop is to provide counseling and assistance to Indian undergraduate students who are intending to apply to schools of Medicine, Osteopathy, Dentistry, Veterinary medicine, Optometry Podiatry, or Pharmacy. The workshop consists of lecture and forums conducted by Indian health care professionals. The workshop addresses common problems encountered by Indian students when applying to medical schools, etc... Such topics will include: how to select a professional school, how to prepare an application, how to prepare for and take admissions tests, and perhaps most importantly, how to successfully navigate the admission committee interview.

Eligibility is limited to Indian undergraduate students who have made the decision to apply to a professional school. Selection is competitive and based on GPA and year in school. All transportation costs are paid by the Association and each participant will receive a \$20 per diem (per day) for living expenses.

F I L M F E S T I V A L

THE AMERICAN INDIAN IMAGE ON FILM:

The Southwest

The Native American Studies program at the University of New Mexico is proud to announce this FILM FESTIVAL. February 9-12 has been selected for the sponsorship of this major event. For one year now, Ted Jojola, Acting Academic Director of UNM's Native American Studies has brought to life this film symposium.

Through the use of workshops, professional seminars and feature premieres of movies, this symposium will focus on the image of Indians as created by Hollywood filmmakers; Foreign filmmakers; and South-west Indian documentary filmmakers. This 5-day film symposium is the first major attempt to understand the impact of films on the tribal cultures they were supposed to represent. One prominent actor has tentatively agreed to attend the symposium, but he has asked that his name not be used in advance publicity.

The opening ceremonies are open to the public at a cost of \$3, or \$2 for UNM students and faculty members.

Film programs will be shown at 7:30pm each evening of the festival at the LOBO THEATER, 3013 Central, NE. The admission fee is \$5 for general public and \$4 for UNM students.

An incredibly unique poster advertising the film festival was created by Native American artist, Harry Fonseca. Stop by the Native American Studies Center to see it.

A number of leading contemporary Indian filmmakers will present throughout the festival as well. Native American students are especially encouraged to attend some of these activities. The cost of staging this event is in the thousands but its definitely going to be worthwhile to address the concerns and problems associated with negative images of Indians. Hope to see you there. For further information call 277-3917.

TRUTH STRANGER THAN FICTION! STORIES FOUND ON PAINT!

BEARDS BOYS' LIBRARY
Sport, Story, Adventure

Published Weekly by BEARDS AND ADAMS, 30 W. WILLIAM STREET, NEW YORK. Fifth Class. No. 39.

WIT-HAWK GEORGE, AND HIS DARING DEEDS AND ADVENTURES IN THE WILDS OF THE SOUTH AND WEST.

BY COL. PRENTISS INGRAHAM,
AUTHOR OF "ADVENTURES OF BUFFALO BILL," "WILD BILL," "TRAIL BLAZER," "SACRED ARMS," ETC., ETC.



Picture taken from The Only Good Indian: The Hollywood Gospel by Ralph and Natasha Friar, 1972

"NOW, RED-SKINS, YOUR ARROWS HAVE GOT TO BE SHARP TO GO THROUGH THIS TOUGH BREASTWORK, SO FIRE AWAY." (From the collection of Edward T. Le Blanc)

guess what time of year it is again?
HAPPY VALENTINE'S TO YOU

THE REPORT OF THE GENERAL LIBRARIES

July 1, 1981 - June 30, 1982

Paul Vassallo
Dean of Library Services

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Introduction

The fiscal year 1981/82 was a year in which the General Libraries made major strides forward into the age of technology. Great excitement was generated when, this year, the library signed a contract with DataPhase for an automated circulation system, or inventory control system. This system, called ALIS II, will replace the outmoded manual system currently used by the Circulation Department and will provide access to information previously impossible to retrieve. As important as this function is, there is as well the potential for an even more sophisticated application in the future - the replacement of the current card catalog by an on-line catalog. Our work with DataPhase has carefully included preparation for this development.

Other preliminary planning for future projects of major import was accomplished as discussions were begun for two new major libraries on the main campus. A totally new Science/Engineering Library will be developed as a subject library to serve the fields of biology, chemistry, physics, mathematics, geology as well as the School of Engineering. The firm of Dean and Hunt Associates, Ltd. were selected as architects. The second project calls for a change of lo-

cation for and expansion of the William J. Parish Memorial Library which serves the Anderson Schools of Management. The new facility will be housed in a new complex which will expand the current building and will be designed by Hutchinson, Brown, Inc.

A further major accomplishment this year was the acquisition of senatorial papers to add to our growing research collection of New Mexico's major legislators. We are very pleased to have added not only the papers of Senator Pete V. Domenici but also those of the late Senators Joseph M. Montoya and Dennis Chavez. These acquisitions are part of a program to acquire the papers of prominent New Mexicans from all areas and prevent their loss to out of state institutions. These collections which provide a New Mexican view of the national scene and of twentieth century history also contribute to the historical resources available on the State and its people.

Within the activity created by these and other events which are highlighted in the following report, we were pleased to have brought a sense of stability to the General Libraries through the filling of four major administrative positions. Two assistant deans - Technical Services and

Collection Development - and two department heads - Bibliographic Control and Reference - were appointed, bringing a sense of direction and solidity to their respective areas. We are pleased with their appointments and know they will help stimulate new and necessary growth which will help lead the General Libraries to a place prominent among the research libraries of the nation.

The Dean of Library Services continued his work both locally and nationally in his goal to bring excellence of quality to the UNM General Libraries. He continued to serve as AMIGOS representative to the OCLC Users Council, served as Chairman of the Board of Trustees of the AMIGOS Bibliographic Council as well as Chairman of CARLA (Council of Academic Research Libraries in AMIGOS). Within the University, he served as Chair of the Search Committee for the Dean of the College of Education as well as continued his various other committee assignments.

Administrative Services/Office of the Dean

The Office of the Dean underwent a further reorganization this year to better fulfill the various functions of the office. Upon the resignation of the Assistant to the

Dean for Management, a study was undertaken to determine how best to organize Administrative Services in order to fulfill the various functions of the office. After deliberation, it was decided that both a physical and organizational change was best. Consequently, the position of Assistant to the Dean for Management was altered to Personnel Librarian with responsibility for all personnel functions. This function as well as Fiscal Services were moved to the second floor. Both units report to the Dean. The Dean's Administrative Assistant maintained responsibility for the office staff, including the building maintenance function. The physical space in the Dean's Office was reorganized to accommodate the move of the three Assistant Deans from the second floor. The result has been beneficial in many ways. Not only have functions been consolidated and a clerical position eliminated, the various units are in locations which better suit their activities. The Assistant Deans are more accessible not only to the Dean but to their staff and the public as well. Personnel and Fiscal Services are removed from a high traffic area which was a distraction.

Personnel

During 1981/82 searches were completed for the following library faculty positions: Life Sciences Reference Librarian, Head of Bibliographic Control, Assistant Dean for Collection Development, Assistant Dean for Technical Services, Personnel Librarian, and Head of Reference. In addition, two temporary library faculty appointments were made. For the third year, a library intern position was funded. Given the great amount of work anticipated by the advent of the Inventory Control System, it was determined that the intern should work with the Assistant to the Dean for Systems for the one year term of appointment. The second temporary appointment (funded in part by a federal grant) was that of Onsite Librarian, a position necessitated due to lack of library services to off-campus programs.

Since a staff is never static, the General Libraries also experienced faculty resignations. In 1981/82, resignations from the following positions were received: Assistant to the Dean for Management, Assistant Head of Special Collections, Head of Tireman Learning Materials Center, Map Room Librarian, and Head of Government Publications and Maps.

Buildings

The major work in this area for the year was the total renovation of Room B-47 in the basement to accommodate the installation of the computer hardware to support the Inventory Control System. This included electrical wiring, special air conditioning and humidity control equipment and of course the computer equipment itself. Much care and planning went into the design of the room and it is gratifying to know that it has been widely praised by experts in the field.

Other major work was done to accommodate the move of the Assistant Deans to the Administrative Office. Inforex machines were moved from Room 148 into the Technical Services area, telephone lines were added to the new Fiscal Services/Personnel complex, and a conference room was created in the Administrative Offices. Additional projects included a relocation of the shelflist and physical reorganization of units in Acquisitions and Bibliographic Control, transfer of newspapers from North Storage to Tower Level 9, and removal of the TWX machine to the Bookstore.

Systems

The past fiscal year was extraordinarily eventful for this unit due to the acquisition of the long-awaited Inventory Control System, DataPhase's ALIS II. This system's impact on both the General and Law Libraries will be greater than any other since the implementation of OCLC, and its flexibility and expandability will assure accurate and efficient control over those circulation systems for the foreseeable future.

More important, however, is the system's implication for future bibliographic management and display, and central to this is the establishment of an accurate and current database. While the ICS provides us with the means to prepare for the transition away from the physical card catalog, it remains for the institution to make the necessary commitment to develop our database.

As might be anticipated, activities during the year were many and varied. With the assistance of the intern for systems, policies and procedures were drafted, the computer room readied, equipment and supplies ordered and much of the equipment installed, library employees and others introduced to the system, and testing begun on the system itself. It is hoped that by next spring, ALIS II will have passed our Functional Performance Acceptance Test and the General and

Law Libraries will have a fully operational Inventory Control System.

Despite the concentration of efforts on the ICS, it was "business as usual" for other aspects of Systems and Development. Our reserve book and serials lists as well as BATAB acquisitions continued to be supported by UNM's Computing Services and Information Systems (CSIS). In addition, our efforts to obtain word processing equipment were in part successful. Although unable to obtain 'true' word processing equipment, we did receive two IBM terminals and a letter quality printer which are connected to the campus computer. The system for creating and editing the text, SCRIPT and VSPC, is far from satisfactory, but the staff is learning to use it, with reasonable results.

Overall, one must consider this past year a beginning. We still have much work ahead of us in preparing for our ICS. We are fortunate to have another library intern to assist in the systems area for next year as we anticipate labeling our collection with OCR labels, finish loading and indexing our database, obtaining the rest of our functions from DataPhase, and finally, bringing up the reserve and main circulation systems. It should be an exciting year.

Collection Development Division

The most significant activity of the Collection Development Division during the fiscal year 1981/82 was the appointment of a permanent Assistant Dean for Collection Development. Although the previous Acting Assistant Deans had made valuable contributions to collection development within the General Library, the fact could not be denied that a permanent appointment would solidify the existing structure and activities as well as stimulate new and necessary growth.

Collection Development and Management

One of the first projects addressed was the revision of the U.S. approval plan with Blackwell North America. The profile -- that mechanism which defines the books we receive -- was outdated and no longer serving our needs. After a series of meetings with coordinators and selectors, a new profile was prepared and went into effect in March 1982. Other approval plans were reviewed as well and most seem to be working quite well. One, however, which has serious problems is the British approval plan with Blackwell in

Oxford. These problems will be addressed in the coming year.

Since it was the first year for the newly appointed Assistant Dean, many of the activities involved the resolution of procedural problems. Many of these were resolved in a series of meetings involving all the selectors. These meetings have also been used to inform and educate selectors about new procedures or review of existing policies.

The library was fortunate to have been able to accomplish some major purchases in this fiscal year. One of the more important was having positive microfilm copies made of the New Mexico newspapers, thereby preserving our master negative copies. Other purchases of significance include the following:

Chemical Abstracts. 10th Collective Index.
British Library. General Catalog 1971-1975.
Fearon Pitman. Curriculum Development Library.
Heilbron. Dictionary of Inorganic Chemicals.
Peabody Museum. Catalogue of the Library.

In addition to acquiring materials through purchase, the library also obtained important materials in several other ways. The Acquisitions Librarian reported over 79,000 individual items received as gifts this year, among which were a number that were noteworthy. The Friends of the UNM Li-

libraries presented the following items at their Annual Dinner:

George Crook. Resume of Operations Against the Apache, 1882-1886.

Charles Siringo. Two Evil Isms, Pinkertonism and Anarchims.

Heriberto Frias. Biblioteca del Nino Mexicano.

Other people and groups too numerous to thank made contributions which certainly enhance the Library's collections. Without doubt, however, the most significant collections received were those of three U.S. Senators from New Mexico, Pete V. Domenici and the late Dennis Chavez and Joseph M. Montoya. These papers join others already in the Special Collections Department of other political figures, U.S. Senator Harrison Schmitt and Congressman Manuel Lujan, forming a strong research core for scholars of this aspect of New Mexican heritage.

Grants were another source for the acquisition of materials. As in previous years, the Library participated in a matching funds grant sponsored by the Canadian Province of Quebec. We also benefited from faculty grants, particularly from the Latin American Institute and from Latin American Programs in Education (LAPE).

It is difficult to calculate the worth of all of the materials mentioned above but obviously the value is great. Anyone who looks with disdain at "free" materials need only regard those received within the past year to recognize the value to the Library and the University community.

Budget

Two significant activities took place that related to the Library's materials budget. The first, in October, 1981, occurred when the six state-supported, four-year institutions agreed to support a proposal prepared by UNM for \$2.5 million in additional library funding to be presented to the Board of Educational Finance. This report pointed out the deficiencies in the academic libraries of New Mexico and made a strong plea for excellence through adequate funding. Unfortunately, the BEF refused to support the proposal and the request was denied. The unwillingness of the State to support its academic libraries was also in evidence in the Spring when it was announced that only a 10% budget increase would be available. Fortunately, as in the past, the University has shown its generosity by granting an additional 5% for library materials and has maintained its Special Allocations support by including a further \$200,000 in the Library's materials budget. However, the University can-

not, with its own limited budget, answer all of the problems of the Library and it is essential that the State of New Mexico respond more realistically to the needs of its institutions of higher learning.

The second major budgetary activity took place in the Spring of 1982 with the preparation of the "Report on the Status of Library Finances," a response to the request of the North Central Association's 1979 Evaluation Team. At that time the members saw the potential for serious problems caused by resource allocation issues. The Library was able to report on a positive note, stating that creative efforts on the part of the Library staff, while not offsetting the problem of poor State funding, were helping the Library maintain its status in many areas.

The Library's materials budget has allowed little growth in the past few years. Support for new courses is at best minimal. New serial titles remain on an "add one/drop one" basis. Unfortunately, the point made by the NCA Evaluation Team in its 1979 report still holds true. The problems are primarily external, and still existing is "a legislative attitude negative to increase in general expenditure level, which extends to higher education." The State Legislature must be educated to understand the necessity for a substantial increase in funding for libraries in the State but most

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particularly for its largest institutional library. The University of New Mexico has the potential for developing an excellent Library with research collections of quality, but only if the support is forthcoming. It will be a constant goal of the Library to seek what it considers adequate funding -- funding commensurate with its position as one of the 100 major research libraries in the United States.

READERS' SERVICES DIVISION

The activities of the Readers' Services Division this year were a confirmation of the fact that the commitment and dedication of its faculty and staff make the continuous maintenance of good services and the expansion of service into new areas possible. In spite of vacancies in key positions and the need to adapt to major changes and additional services, the people working in the Division have continued to maintain regular services while planning, preparing and implementing expanded areas of library services.

As has been mentioned previously in this report, the most significant event to occur this year was the purchase of DataPhase's ALIS II and this had a major impact on the Circulation Department. During the Spring Semester, the Circulation Librarian, with the assistance of the Systems

Librarian, was involved in all aspects of preparation for the ICS.

Other significant activities of the Division included:

1. Developing a new service for visually handicapped students through the use of a Kurzweil reading machine.
2. Continued development and expansion of the Skills Center to provide tutoring and study skills services to freshman classes beyond the University Skills level.
3. Developing a coordinated system for providing library support and services to off-campus programs.
4. Planning two major libraries for Engineering/ Science and Administration/Social Science expansion programs.
5. Negotiating, processing, space planning and implementation of major expansions in the archival activities of the library.
6. Developing a new set of brochures, exercises, tests and outlines for expanded library instruction programs.

Circulation Department

This year has been another year of expansion for the Department. Without adding additional staff, the circulation operations in the Library increased in a variety of ways. New services were introduced to library patrons, new approaches to ongoing operations were implemented and new

equipment to automate manual procedures was installed. The Circulation Department has not only been involved in improving present services, but it has been active in planning for the future expansion of its operations.

The major activity affecting the Department was the signing of the contract in the Fall of 1981 for DataPhase's ALIS II automated circulation system. The Circulation Librarian was involved in planning and implementing the preparation of the new computer room, the arrival and setting up of the central processing and disk drive equipment, and in the preparation for entry of the bibliographic data covering the Library's holdings. Because a large proportion of the newer titles owned by the Library system were already in machine-readable form, some innovative work with the AMIGOS Network resulted in a method by which a large portion of the circulating book collection can be entered on tape to the computerized system, the result being rapid input with minimum labor.

In August, 1981, the General Library acquired a Kurzweil Reading Machine. This is a desk top computer which scans printed materials and transforms the words to synthetic speech. Visually handicapped individuals are able to use the KRM independently after minimal training and consequently have a reading machine at their disposal. The Cir-

culation Department has assumed responsibility for the KRM both in maintenance and in making the service available to the community. The service has been publicized in the Lobo and the Tribune as well as on KOB-TV, KOB 77-radio, and Forum 13. It was prominently displayed at Legislator's Day and at the Showcase for Technology at the Convention Center. An indication of the success of the KRM program occurred in June, 1982, when it was announced that the General Library would be receiving a second machine under a grant program offered by the Xerox Corporation.

The Circulation Department's Document Delivery Service continued into its second year of operation. Several new customers were added to this program with the total number of research institutes or companies which have signed contracts increasing to nine. Of the 5,004 requests, 4,883 documents were delivered for a success rate of 97.6%. The Circulation Department successfully introduced several new methods for transmitting or ordering documents for the Library's patrons. The use of DIALOG'S DIALORDER system was expanded to include more commercial vendors. To improve the method of submitting orders to the Universal Serials and Book Exchange, use of BRS's electronic mailbox was instituted.

Government Publications and Maps

The main objectives this year were to continue to establish better organization and bibliographic control of the government publications collection, to continue to improve reference service, to increase visibility of the Department, and to work on acquisition of regionally and locally produced material not received through depository programs. Gains were made in all of these areas, although the activities were somewhat diminished due to the assistant librarian's assignment as interim personnel librarian.

The Map Room completed its project to sort out duplicate maps. Copies of the U.S. maps were sent to La Universidad Autonoma de Guadalajara as part of the exchange program established between the two universities. A major preservation project was the encapsulation of many of the maps in archival quality plastic.

Space continues to be a critical issue in both units. Reorganization activities and the increased reliance on microfiche have been of some help in alleviating the need. However, plans for remodeling are a necessity if the two departments are to be fully utilized by the public.

Reference Department

In the absence of a permanent department head for most of the year, long range plans and new initiatives were postponed in favor of a review and expansion of several existing services. A number of projects were carried out in the Department which contributed to improved reference assistance and better access to materials. Although there were no new major undertakings, it was a busy and productive period, and the willingness and ability of the staff to respond to sometimes difficult situations was commendable.

On-Line Search Service

The demand for the service continued to increase last year, although at a slower rate of growth than in previous years. There was a 13% increase in search requests over 1980/81 and an 85% increase since the first year of operation in 1978/79. There was also an increased use of the service to aid in answering reference questions. During 1981/82 we went online 208 times for information when other reference sources had been exhausted.

Numerous opportunities existed for searchers to have training in the Library. DIALOG, BRS and the N.Y. Times Information Bank held sessions here. In addition, data base producers such as IAC (Management Contents, Magazine Index, Legal Resource Index), CIS, and Disclosure offered specialized workshops.

The Search Service continues to be a regular component of library instruction. Search demonstrations were held for several visitors to the library during the year; several reference librarians participated in on-line demonstrations at the NMLA State Fair booth in September and at the New Mexico Technology Showcase in October.

Library Instruction

The programs grew significantly in both quality and quantity this year. The number of classes or groups receiving instruction or tutoring were:

	1980-81	1981-82	% change
Classes	613	1,081	76%
Students	8,657	14,110	63%

In part this increase can be seen as a result of ongoing efforts to publicize and improve the service. Accomplishments in this area include:

1. The design and production of brochures describing the Parish and Tireman Libraries.
2. The creation of new instruction materials for several classes, continual updating of older materials as needed, and a reorganization of the materials on hand.
3. Location and annotation of a map of the campus to show all library locations.

The largest undertaking in terms of library instruction was English 101 which was transferred back to the library for this purpose. In order to accommodate the many classes, the library presentation was revised. Instead of the usual tour of the library, students were given self-guided tour/workbooks that asked them to answer questions utilizing the card catalog, reference collection, government publications and periodicals areas. Librarians were available to answer questions and handle problems that arose. The positive response to this approach from the English Department and reference librarians led to revisions of the tour/workbooks for other classes.

Indexes and Microforms

A number of projects were completed during the year that resulted in improved bibliographic and physical access to collections. Certain microform collections were consolidated to provide easier and more complete records. The project to identify duplication between depository and commercially available DOE technical reports was completed. All micro-filmed newspapers were received to determine their classification status; an effort will be made to catalog those which have not yet been handled. Positive microfilm copies of New Mexico newspapers were acquired. This has been a long standing need since many of the titles or copies are

unique to UNM. Until the positive film was made available, access was restricted and the masters were subject to unavoidable damage in use.

Ethnic Studies

The Ethnic Studies staff initiated two plans, one to compile materials relating to the Navajo-Hopi land dispute, and the other to compile bibliographies containing materials by and about Southwest Chicano authors. Subject headings in the Ethnic Studies card catalog were updated. A reference file of minority organizations was created; this file is made up primarily of groups within New Mexico but some organizations elsewhere in the Southwest are also included.

Tireman

The Carr Collection was the focus of much of the activity during the year, and both the Osuna family and the Pan American Roundtables worked with the librarian to promote bilingual materials. The result of this work culminated in several donations, including one for \$5000.00 from the Osuna family. Other actions in this area of Tireman included the elimination of the cataloging backlog and the completion of a collection development policy for bilingual materials.

Security, space and adequate staffing remain serious problems at Tireman, particularly as the collection enlarges. For example, late in the year, arrangements were

concluded with the Department of Special Education to acquire that department's library. This will require a major shift in the collection, a not uncommon occurrence.

Skills Center

The University Administration officially designated the Skills Center as a library function and recognized its relationship to other Library services. The most significant achievement of the Center during the past fiscal year was the expansion of services. While it continued to provide services to students within the University Skills Program, its services were also expanded to include students enrolled in Freshman English and Freshman Mathematics. This expansion of services resulted in more than 2500 students being tutored during the academic year. The Skills Center will be affected by the establishment of the General College since the University Skills Program will be a part of that college. In May, 1982, the Center was designated as the academic advisement center for the General College as of Fall Semester 1982.

Special Collections Department

The library achieved new depth of research strength by receiving the deposit of over 1,000 cubic feet of the papers of U.S. Senators of New Mexico Dennis Chavez, Pete V.

Domenici and Joseph M. Montoya. These papers join papers already in the Department of other contemporary New Mexico public figures on the national scene, U.S. Senator Harrison Schmitt and Congressman Manuel Lujan, as well as papers of New Mexican public figures from earlier periods. Ceremonies in the Anderson Room were arranged for presentation of the papers by the donors to University officials. Each ceremony was followed by a reception at the University President's home.

Substantial progress was made toward the proper processing and storing of the collections. Use of these papers for research was made possible by devising, in coordination with the donors and the University Counsel, a model agreement for the deposit of papers of this type. No previous guidelines which addressed these issues had existed in the literature of archival management.

New prominence was given to a significantly rich resource of the Department by high-quality printing done of the illustrative blocks from Laughing Horse magazine. Some of the costs of printing were underwritten by the Friends of the UNM Libraries.

An exchange of visits between the Special Collections staff and the new administration of the State Records Center resulted in plans for cooperative interchanges. One immedi-

ate outcome was the microfilming of the Sanborn maps of Albuquerque by the SRC, thereby helping to preserve the originals and permit use of the information at other locations.

Another form of information for the local and state history collections in the Department are video tapes produced by KNME-TV for its program, The Illustrated Daily. Certain programs of long term interest which reflect the history of Albuquerque and New Mexico are selected for duplication on 1/2 inch video tape before being erased. The tapes are then added to our collection.

Onsite Programs

An important new service was added to the Library, for this year only, with the temporary appointment of a librarian for Onsite Programs. Funding by a federal grant, University administration, and the Library supported the full-time position as well as a consultant and a library technical assistant at the Zuni Graduate Program. A variety of activities were performed by the librarian who made weekly trips, weather permitting, to the Jicarrilla and Mescalero Apache reservations and occasional trips to Zuni Pueblo, Shiprock and Crownpoint on the Navajo reservation, and the Hispanic community of Chama. The need for reference and document delivery was readily apparent as was the need

for library instruction. The librarian was able to offer dedicated help to these students and her assistance will be sorely missed.

Fine Arts Library

Many of the activities of the Library in the past year were focused on the John Donald Robb Archive of Southwestern Music. A number of field recordings were made by the staff and added to the collection, and forty more audio tapes were received from Jack Lueffler (ethnomusicologist, Santa Fe) on Hispanic fiddle music in New Mexico. The public service aspect of the Robb Archive was particularly heavily utilized. The staff worked with and prepared tapes for:

1. Chimayo Public Schools Curricular Committee
2. Albuquerque Public Schools Music Curriculum (Laotian)
3. Albuquerque Zoo (African Safari)
4. Wheelwright Museum of Indian Art, Santa Fe
5. School of American Research, Santa Fe
6. New Mexico Symphony 50th Anniversary Celebration
7. UNM Legislators Day
8. Rowen Rivera (for lectures at University of Michoacan, Mexico)

There were two accreditation team visits in conjunction with their evaluation process of the Music Department and the School of Architecture and Planning. Both teams were positive in their remarks concerning the library's collections but were concerned about the lack of space avail-

able for growth. Some of the problem was alleviated by the removal of some of the older phonodiscs to Zimmerman's Tower Level IX but the problem of space expansion still exists.

The Librarian received a one-month extension and a three-month supplemental on the National Endowment for the Humanities Grant, "Documentation of the Navajo-Hopi Indian Relocation Dispute." The work was completed September 30, 1981. Two one-hour programs were aired over KUNM-FM on September 21 and 22. The one-hour program "The Navajo-Hopi Land Dispute" was aired nationally over the National Public Radio Network on June 1, 1982.

William J. Parish Memorial Library

Of major import to this Library was the preliminary planning for the expanded Administration/Social Science complex and with it space for a new library. One of the most critical problems facing this Librarian is the lack of space in the current facility. Although the new building will not be reality for several years, it is possible to be optimistic about a future solution to our needs in this area.

A number of services in this Library were expanded this year. Our Library instruction program improved this year as we increased our orientations, prepared new classroom materials and revised and updated class lectures. As a result,

there has been a significant upgrading in the ability of students to do effective research and in the awareness of resources available for projects and papers. The quantity and difficulty of reference questions continued at a high level this year, particularly as the community became more aware of our services. In addition, both faculty and student use of computer-assisted reference service increased. In the area of collection development, efforts were concentrated on updating international management materials and considerable work was done in collecting annual corporate reports. After viewing the state of our older materials which are housed in a warehouse on North Campus, the Parish Librarian decided that immediate action was necessary to prevent further deterioration. Consequently, a large group of materials was moved to Zimmerman's Tower Level IX where they can be paged during the hours that the Library is open.

Technical Services Division

To appreciate fully the developments in the Technical Services Division one should keep in mind that the Division is undergoing an administrative and operational review. With the filling of two major positions--Assistant Dean for Technical Services and Head of Bibliographic Control--the

Division is to some extent undergoing a period of adjustment and experiencing the beginnings of a transformation.

Well-earned recognition is due to Technical Services faculty and staff for commendable performances and achievements of no small consequence sustained during this period. Of primary impact has been the effort to achieve better coordination and communication through the establishment of "OBD" or "One Big Department." Manifestations of this concept include the Technical Services Coordinating Group, the formation of the Supervisors Group, and the creation of two "floating" positions. The result has been renewed optimism and a general upswing in morale. Ramifications include high production rates and yields of quality products.

Other significant achievements of the Division included:

1. Preparation of personnel and operations for the advent of DataPhase and the Retrospective Conversion Project.
2. Adjustment to the introduction and adoption of the new AACR II cataloging rules.
3. The completion of the three year project to process serial reconciliation forms for some 8,000 active titles.
4. The receipt and handling of almost 79,000 gift items, an increase of 34.5% over the 1980/81 fiscal year.
5. Completion of the refiling of the card catalogs in both the General Library and Tireman.

6. Planning for the physical reorganization of units within the Division.

Acquisitions Department

The Department had a very busy and productive year during 1981/82. Stability, combined with new energy, allowed the Department to accomplish more work with the same number of employees. It added a great deal to have the Department Head return on a full-time basis after sixteen months as acting Assistant Dean for Collection Development and to place the Ibero-American Acquisitions Librarian in the Department administratively.

Searching/Orders

The lack of a firm budget until October presented problems for the Searching Section in fiscal 1981/82 and as a consequence a majority of the orders were placed from January through March. This placed a great strain on the Department but, with aid from other units in Technical Services, the work was handled efficiently and kudos go to all who helped in this stressful situation. The fact that the number of orders placed in 1981/82 increased by nearly 8,000 over fiscal year 1980/81 gives evidence of the amount of work accomplished. In addition to processing orders, the Searching Section devised and implemented a number of procedures for handling work flow as did the Order Section. In

addition, the Order Section revised the vendor directory and did additional inforexing of Serials Authority File cards for the Bibliographic Control and Serials Departments.

Receiving/Gifts

During 1981/82, the Receiving Section handled almost 6,000 pieces more than in 1980/81. The entire section worked together to get materials up for review and ready for payment in an expeditious manner. In addition to their regular work, they finished the Continuations/Standing Order (CSO) reconciliation project and modified various procedures during the year.

The Gifts portion of this section saw an enormous increase in the number of gifts received--a total of 78,654 items, an increase of 34.5% over the previous fiscal year. The number of donors was up from 2,112 to 3,069, an increase of 31%. These sizeable increases are due in part to the concentrated efforts of the Friends of the UNM Libraries to solicit gifts for the booksale that took place in October 1981. However, no doubt part of the increase is also due to increased knowledge on the part of the public about the Gifts Section in the Library and the concerted efforts of the staff to please donors. Other work of the Section included sending materials to some 67 different institutions, including the University of Albuquerque in compliance with

the agreement reached by Presidents Davis and Welch for the transfer of the Senator Dennis Chavez papers to the UNM General Library.

The Friends had a profitable year, both in terms of money-making events and public service events. The Friends' Booksale was the major event with net sales reaching \$7,600. Two other very worthwhile projects that took place were the pre-Christmas Children's Book Fair and the Friends' Lecture Series on New Mexico writers.

Ibero Acquisitions

Ibero acquisitions work was formally moved to the Acquisitions Department this fiscal year, and work has been heavy and continual throughout the year. In addition to the regular work, the seeking out of grant money for purchases was carried out with vigor, with success coming from both LAPE and LAI. In addition, the Title II-C proposal was rewritten and submitted. The National Endowment for the Humanities funded a proposal to have our Mexican collection, particularly the Van de Velde materials, examined and a guide to the collection prepared. This work is being carried out under the supervision of the Department.

Bibliographic Control Department

The year for the Department began with change and uncertainty and ended with a note of optimism and perhaps even stability. The Department grew over the year as a result of filling previously frozen positions and the addition of 4 new FTE staff and a new faculty position. Probably the most significant change was the appointment of a new Department Head. When compared with last year, the Department had its positions filled, a sure sign of stability in this important area.

Cataloging

Major changes in the cataloging rules and procedures caused by AACR II definitely affected cataloging production across the country during 1981 and at UNM, we were not excluded. Our production took a downward trend as we adjusted to the new guidelines. Another snag was hit when the OCLC system moved its equipment and personnel from one Ohio location to another. From October to February we lost 22% of our available work time due to the fact that the system simply didn't work. The figures below indicate the production loss caused by these two events in relation to previous years:

	<u>1979/80</u>	<u>1980/81</u>	<u>1981/82</u>
No. of catalog records created	33,983	33,877	30,724

Collection growth statistics for 1981/82 (all of which include serials as well as materials cataloged through Bibliographic Control) are as follows:

	<u>Total</u> <u>6/30/81</u>	<u>Added</u> <u>81/82</u>	<u>Withdrawn</u> <u>81/82</u>	<u>Reinstated</u> <u>81/82</u>	<u>Total</u> <u>6/30/82</u>
Titles	684,153	30,724	2,602	665	712,940
Volumes	1,043,936	45,693	3,938	838	1,086,529

Retrospective Conversion

In anticipation of the new automated circulation system, a major initiative was made to convert our old, manually-produced catalog records to computer records. With new staff that was hired and some reorganization of the Department, a Retrocon Team was formed. By January 1982, production had started in earnest and by the end of the year, over 17,000 updates had been accomplished.

Miscellaneous

Several other accomplishments of note during the fiscal year should be recorded.

A departmental planning committee completed a space utilization plan, incorporating the new DataPhase terminals, that will address the changes in work flow that the Department will experience with the addition of a second computer system. This will help provide flexibility in addressing

the processing of materials on two systems with changing priorities and system performance.

The refiling of the Public Catalog was completed on August 21. Nearly everyone in the Library had participated in this project and should be congratulated on a job well done. In addition, the Tireman Learning Materials Center catalog was refiled in January, leaving the Fine Arts Library as the only unit not filed in accordance with the new ALA filing rules.

In March the Department learned that a different commercial bindery, Esperanza, had won the State bindery contract. This kind of change can be very complex involving many different procedures. Many thanks go to the Assistant Dean and the Bindery Unit for working so hard to make the transition as smooth and easy as possible.

Serials Department

Despite a rather severe staff turnover (100% in Serials Acquisitions and 60% in the Central Serials Record section), the Department was able to complete a number of projects, several of which were quite substantial and which had been continuing for some time. Fortunately, the staffing situation stabilized with our being able to hire replacements,

thereby keeping any decrease in productivity to a minimum in all sections.

Serials Acquisitions

This section, hardest hit by the staff turnover situation, managed to weather the storm, with the new staff learning their responsibilities quickly. Although there was a delay in processing the Faxon annual invoice, by November it was fully paid with the expectation of it being processed much earlier next year. It was somewhat dismaying to see a 13% increase over the previous year's invoice with the concomitant necessity to continue the "add one/drop one" policy for new journal subscriptions. Overall expenditures for the fiscal year were as follows:

Standing orders	\$130,952
Subscriptions	522,639
Total	\$653,591

Chronic BATAB problems continued to plague the staff. Inexplicable quirks which appeared in reports were often unable to be resolved. Twice during the year data was lost which had to be reentered at a great cost of time and labor. A long-standing problem involving invalid encumbrances in the standing order agency was also worked on.

Serials Cataloging

With the implementation of the DataPhase system imminent, it became the goal to have as many serials records in machine-readable form as possible. Two DataPhase terminals were installed to be used for conversion but by the end of the year the system was not yet operational. Also it was necessary to recatalog and enter into OCLC the currently received circulating periodical titles. Reclassification of Dewey titles is also involved.

In other activities, a very large number of titles in Parish were processed for transfer to Zimmerman. All of the Fine Arts titles still in Dewey were reclassified to Library of Congress. Many procedures were reviewed and revised during the year.

Serials Fiche Records

A major effort to overhaul the serials title list on microfiche was completed in November. The changes and improvements fell into three basic areas: 1. format changes 2. filing improvements 3. expanded field lengths. The new product seemed to produce satisfaction among the users.

A second effort was directed at producing a keyword out of context (KWOC) index to the serials list. Although much effort has gone into the project and sample printouts produced, fiche copies are not yet available.

Reconciliation Project

There were two major accomplishments related to this Project this year. The first was the completion of a three-year project to distribute forms for over 8,000 active titles to selectors. By the end of 1981/82, approximately 70% had been returned to Serials with the cancellation rate remaining steady at about 11% all year. The second major accomplishment was the completion of the Continuations/Standing Orders (CSO) portion of the project. This involved the transfer of titles for publishers' series and classed separately series previously handled by the Acquisitions Department to the Central Serials Record in the Serials Department.

CONCLUSION

Last year's Annual Report mentioned that "the basic underfunding of library support continues to be one of the glaringly unsolved problems within the University." The refusal of the Board of Educational Finance to recognize this problem and provide adequate funding for this library and libraries across the State of New Mexico forces us to recognize that perhaps our search for excellence is a chimera. Certainly libraries need adequate funding--our plans and goals cannot be realized without sufficient monies to provide the services needed and indeed expected by the clientele we serve. We shall continue to strive to meet these expectations; we shall continue to strive for excellence. In so doing, we shall continue to seek the support that the libraries need in the hope that the dream of excellence will become reality.

OTHER MATERIALS IN THE GENERAL LIBRARY

	<u>June 30, 1981</u>	<u>Added 81/82</u>	<u>June 30, 1982</u>
Government Publications			
Paper Documents	254,311*	14,966	269,277
Microform Documents	595,192*	41,159	636,351
Other Microforms	1,131,949*	75,875	1,207,824
Audio Recordings	26,609*	717	27,326
Projected or Magnified materials (films, slides, transparencies)	9,670	390	10,060
Pictorial Representations (charts, drawings, maps, photographs, prints)	93,574*	8,523	102,097

*June 30, 1981 datum corrected from the 1981/82 Annual Report per audit done for BEF report of July 16, 1982.

Library Expenditures for 1981-82

The General Library

<u>University Funds:</u>	<u>1981-82</u>	<u>1980-81</u>
Salaries	\$2,262,161	\$2,132,445
Supplies and Expenses	143,418	101,656
Data Processing	100,748	94,761
Travel	7,959	6,112
Books and Serials	1,374,232	1,164,996
Binding	90,358	80,726
Fringe Benefits	N/A	N/A
Automated Circulation System (ACS)	53,450	- 0 -
Furniture and Equipment	51,964	11,153
Non-University Funds		
Bond Issue (for ACS 1981-82)	40,091	59,990
Grant (NEH-Davidson)	19,543	- 0 -
Basic (HEW GRANT)	1,900	3,963
Gifts	7,708	3,216
Total	\$4,153,532	\$3,659,018

Readers' Services Statistics

	<u>1980/81</u>	<u>1981/82</u>	<u>% of change</u>
Library Use (Gate Count)*	1,374,806	1,419,252	+ 3.2
Zimmerman	1,089,310	1,130,945	+ 3.8
Parish	164,566	168,607	+ 2.4
Fine Arts	120,930	119,700	- 1.0
Outside Circulation**	355,525	350,754	- 1.3
Circulation***	362,235	363,962	+ 0.5
Zimmerman	260,192	261,096	+ 0.3
Parish	19,058	23,381	+23.0
Fine Arts	39,625	43,319	+ 9.0
Listening Center	14,719	12,329	-16.0
Tireman	25,297	22,958	- 9.0
Evaluation Center	574	879	+53.0
Reserve Circulation	65,641	81,650	+18.0
Zimmerman	48,710	60,864	+24.0
Parish	6,748	8,418	+24.0
Fine Arts	10,183	12,368	+21.0
Interlibrary Loan	8,583	8,668	+ 1.0
Borrowed	3,784	3,582	- 5.3
Lent	4,799	5,094	+ 6.0

* Does not include Tireman

** Includes interlibrary loans and reserve but does not include the Listening Center and Evaluation Center

*** Includes all recorded circulations

It is policy of the University of New Mexico to provide equal opportunity in all personnel actions including employment, compensation, benefits, transfers, lay-offs, returns, institutionally-sponsored education, training, tuition assistance, social and recreational program and advancement, without regard to race, color, religion, sex, age, physical handicap or national origin. Editorial assistance provided by Jeanne Sohn, Typing provided by Lucy Romero, Photographs by Jerry Teale

SYSTEMS ANNUAL REPORT
UNM GENERAL LIBRARY
JULY 1, 1981 - JUNE 30, 1982

Harry C. Broussard, Assistant to the Dean
For Systems and Development

I. General Departmental Information

A. Significant achievements during the year

Inventory Control System

The past fiscal year closed as the most eventful since my association with the General Library in 1975, primarily due to the acquisition of our long-awaited Inventory Control System (ICS).

That system's impact will be greater than any other since OCLC was implemented here. Its technology brings the General and Law Libraries' circulation systems into the present decade, and its flexibility and expandability will assure accurate and efficient control over those processes for the foreseeable future.

More important, however, is the system's implication for future bibliographic management and display, and central to this is the establishment of an accurate and current database. While the ICS provides us with the means to prepare for the transition away from the card catalog it remains for the institution to make the necessary commitment to develop our database.

Despite the emergence of on-line catalogs in several other ARL libraries the technology is not yet affordable at UNM. But it

will be. And once it is feasible to change over we must be prepared with a clean database. Personnel costs in the future will be as expensive as computer terminals were in the past, and the prospect looms of having cheap terminals throughout the Library of which one can see only an inaccurate, inconsistent and partial copy of our card catalog.

I will not duplicate Steve Rollins' summary report on the system's implementation, but several points should be made or reinforced here.

1. Our introductory sessions, the Implementation Task Force and its subgroups, and the GLOB columns were very successful. Those who became informed and involved helped us to plan a better overall system, and they assured their areas of better integration/interaction with the system.
2. UNM's recommendations to AMIGOS for OCLC tape processing are allowing us to avoid tens of thousands of dollars and many months of database preparation. Texas A&M has already benefited from that procedure, and inquiries have been received from other DataPhase customers.

Another innovation, still in the design stage, consists of a microcomputer link between OCLC and the ICS. Although similar links have been produced to link other computer systems, ours will perform several unique tasks. The purchase of the microcomputer should save at least one new position, and will

measurably ease integration of the system with present processing.

3. The computer room and its appointments have been praised by field engineers and other cognoscenti.
4. Our installation problems with the disk drives were the worst ever encountered by a DataPhase customer.
5. DataPhase's software delivery schedule fell behind in March. While it is likely that they will deliver our functions by the end of the contract term next spring unforeseen bugs may prevent ALIS from passing our Functional Performance Acceptance Test by that time.

ALIS II still contains substantial bugs in its multi-library version, which is the one we have, and these are causing problems for several customers.

6. The ALIS software should ultimately be capable of recognizing at least 80 terminals. But, whether the response time for that size of Data General installation will be acceptable is still a mystery.

After seeking other partners in a network for years we are being approached now by libraries that would like to consider joining us. The coming year should see decisions and policies made in that area.

If anything, our current configuration may prove our good faith and the viability of networking. But, it still remains to coax enough signatures onto a network compact to guarantee the resources needed, the largest Data General configuration may be inadequate to support the network, and the Tandem-base software is still under development.

7. More UNM funding is needed to bring circulation to the branches, and more still for an on-line catalog -- at some point the University will have to make a qualitatively new commitment to automation, or else must fall behind the other ARL libraries in modern concepts of service and bibliographic management.
8. We have only paid 1/3 of the purchase price of \$274,745., pending delivery of the rest of their functions. This coming winter we may reassess the vendor's ability to meet our needs within a realistic time frame. If they cannot deliver in time we would have the option of returning the system and getting our money back, although it is more likely that, should their delay cause us substantial inconvenience in the areas of circulation and reserve, DataPhase would compensate UNM for that inconvenience:

If we do reassess the system it will also be appropriate to review the current state of alternative systems for circulation, on-line catalogs, acquisitions and serials control and

so forth.

And, while we have psychological and political reasons for "riding it out" with DataPhase it is important to maintain our perspective -- we will not have completely purchased ALIS until we have paid for it, and our personnel investment in the database is minimal to date. We do have "disruption insurance" via a liquated damages clause in the contract, and should not view that alternative as suicidal -- if we honestly feel that we will not receive the system sold to us within a reasonable time, and if there is a reasonable alternative on the market, we should consider changing systems.

9. Notable database-building activities included the following.
 - a. Janet Frederick drafted specifications for a project to have serials records translated from their current magnetic format to a MARC-like format for loading. Item information will be attached to these temporary records for circulation. Full cataloging will be created as time permits, with OCLC records automatically replacing their temporary predecessors.
 - b. A project was begun to determine the feasibility of buying and loading MARC tape cataloging for government publications. This bogged down in June due to personnel schedules and turnover, but will be restarted as a project for the new intern.

- c. Plans were made to address the sharing of student enrollment and library fine records with the University via magnetic tape, and to investigate interconnecting our system with the campus network. Record sharing will be facilitated when the vendor provides tape transfer functions, hopefully at the end of calendar 1982. But the problem of interconnection is much greater, and will take much longer to resolve.

Staffing

Systems support for the Library was doubled this past year with the assignment of the library intern position to that function. Janet Frederick was selected, and attended to many details and tasks: She drafted several policies or procedures on OCLC-ICS integration, attended to the order and delivery of equipment and supplies, wrote the GLOB column, was chair or facilitator at dozens of meetings, and became an early expert on SCRIPT.

Because of her excellent knowledge of OCLC and her prior experience at UNM Janet served as our resident expert and historian on past UNM cataloging practices, and was particularly valuable to us when we developed the specifications for OCLC tape processing. She also participated in the sessions that introduced library employees to the system.

Most fortunately, a systems intern has again been recruited, and that person will also receive a broad range of pragmatic experience during the year. I hope that her effectiveness will be apparent in the depth and range of responses provided to requests for assistance.

Until the end of the fall semester I continued to have the assistance of Irene Norwood, a computing science student, for about seven hours a week. During her stay she placed production of the UNMGL Faculty Orientation Handbook and the employees telephone list on the laser printer, prepared procedures for those tasks, and trained the Personnel Coordinator to maintain the texts. She also produced a sample KWIC index for the LAPE project discussed elsewhere. And, she attempted to "automate" the organization chart via SCRIPT, but we decided that the commands were idiotically complex for the results.

UNM Computing Services

Our reserve book and serials lists and BATAB acquisitions continue to be supported by UNM's Computing Services and Information Systems (CSIS). Here are some highlights of that work.

- Reserved book printouts and labels have generally been satisfactory, with an infrequent problem caused by slow delivery.
- The serials lists were improved during the year in several ways

that were appreciated by Readers' Services staff, and subject approach to the records was provided for the first time in several years through the expedient of a keyword-out-of-context (KWOC) list. By the end of June a project was underway to standardize our annual request for a list of subscriptions and standing orders for selector review. Plans were also developed to load serials titles into the ICS, but replacement of the fiche format must wait until DataPhase has improved the serials holdings display and until we can acquire enough CRT terminals.

- BATAB cranked along in its inimical style. Toward the end of the year a project was begun to purge the BATAB files of closed orders and other obsolete records. Next year we should see the premiere of the DataPhase acquisitions system. There will be economic pressure to adopt it if its functions come close to suiting our needs, and my guess at this point is that they will.
- The Inforex system is slowly but noticeably deteriorating. Problems believed to reside in the cables to Scholes Hall are increasing the unreadability of the screens, and in the spring a head crash wiped out one of the busiest weeks of Acquisitions input. By the end of the year CSIS had completed a study of various replacement options for that system, and implementation of one of those is hoped for in FY 1982-83.

- UNM made final arrangements to purchase its own machine for the production of microfiche, with changes to our products in format and reduction likely.
- A monthly meeting was begun between key Library staff and Paula Mortensen from Information Systems. This was initiated in response to a series of problems we experienced over several months, has proved to be a very effective mechanism for handling problems and projects, and is being continued.
- Information Systems filled several requests for one-time reports, using data from existing files. Included were print-outs for the BATAB purge and LAPE projects, listings of serials and their prices, and lists of Serials both with and without OCLC control numbers.

Word Processing

Our attempts during the past several years to obtain word processing equipment were only partially successful.

The University is trying to standardize the type of terminal acquired by all departments so that they will have access to emerging campus systems such as General Ledger, Student Records, electronic mail, and so forth. So, last year, CSIS implemented a policy of disallowing the purchase of true word processing equipment for a department until that department can prove that its

needs cannot be met with the kind of terminal that is connected to the campus computer. And the only word processing package supported on the computer is SCRIPT.

Thus, the Library was given two IBM terminals and a letter-quality printer. The problem is that both SCRIPT and VSPC, the system used to create and edit the text, date from an age and philosophy when such systems were used as tools to help programmers write and document programs. They were not designed originally to be comprehensible to others. They have been modified and enhanced to serve as word processing software, but at the expense of what little clarity they originally contained, and are definitely better suited for high-volume, low-complexity work.

Miscellaneous

The Bibliographic Control and Serials OCLC screen printers broke down so frequently, despite repeated shipment for repair, that replacements were sought. After using two demonstrators for some time, and having a third model shown to us, rather airtight specifications were drafted. Following the usual bidding period two Mannesmann Tally printers were purchased. None of the models investigated reproduce diacritics, and while the Tallies are the quietest (53 db) of all models, work station acoustics cause a somewhat annoying reverberation. The old Scope Data and Perkin-Elmer units will be kept for a while -- perhaps they can be used

elsewhere to back up the Centronics printers we purchased for the ICS.

Sharon Moynahan and Connie Thorson received a little assistance in a KWOC indexing project for LAPE materials. Problems encountered included selecting an appropriate format, the loss of my student assistant, and a delay in obtaining a cost estimate from Information Systems.

B. Significant plans and recommendations for the future

1. Very briefly, the next few major steps for the Inventory Control system will likely be taken in the following order:
 - a. Finish loading and indexing the database;
 - b. Label the Zimmerman stacks collection;
 - c. Update/correct the database and shelflist as a result of the labeling project;
 - d. Obtain the rest of our functions from DataPhase;
 - e. Implement the microcomputer link from OCLC to the ICS;
 - f. Bring up reserve circulation, then main circulation in Zimmerman.

2. Merri Ann Hartse, the new intern, will begin in August. Her primary duties will relate to the ICS, but she will need a variety of other systems assignments to balance her internship. As with Janet, Merri will be encouraged to work independently on various projects, with review and consultation as

necessary. As is typical at this Library she will get lots of practice in setting work priorities. And, she will be encouraged to learn or improve as many skills as possible, from people-related ones such as determining user requirements, working out interpersonal conflicts from a non-supervisory position and creating easy procedures for hard tasks, to the more obvious ones such as system and project planning, computer operation and on-line searching.

3. The use of SCRIPT should be encouraged as much as possible. Sherri McIlroy has volunteered to be our SCRIPT coordinator, and will take over (as time permits) where basic CSIS training ends. One problem we face is that an operator must learn and use many different commands for different applications, and a command set is mastered only by regular use. My plan is for us to learn and retain enough to help people with the most common and widely useful tasks such as memos, reports and smaller manuals. Those wishing to use SCRIPT for theses, or long manuals, or other text that requires special codes should pursue that literacy themselves, and CSIS staff are available for that training.
4. A note on staffing: Some of the newer computerized techniques are becoming more appropriate for library use as their cost decreases and their sophistication increases, and those should be utilized wherever they economically improve our productivity or service. Integration of a new tool invariably makes

new demands on library personnel, from evaluation of the prospective tool, to design and implementation, through training and documentation. The role of the systems staff should be to help out in each of those areas, and then withdraw.

But the timing of new systems or projects can get out of hand. The implementation of SCRIPT and the ICS, work on Library-CSIS policies on numerical databases and software, and desires for KRM-computer linkage and for on-line serials check-in are all projects where systems expertise would be extremely helpful. I have several more in mind that cannot be started for lack of time, and other people have their own lists. The point is simply that there is a danger of dashing madly off in all directions, without sufficient planning for the way in which each project relates to the Library's overall strategy and resources.

If the net improvement to control and service is increased in the long run, so much the better. But I am not sure that it is, or that we are balancing the speed of our progress with sufficient systems support to insure that long range goals and economies are met.

The following is provided for the Library's Annual Report:

OTHER MATERIALS IN THE GENERAL LIBRARY

	<u>June 30, 1981</u>	<u>Added 81-82</u>	<u>June 30, 1982</u>
Government Publications			
Paper Documents	254,311 *	14,966	269,277
Microform Documents	595,192 *	41,159	636,351
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Pictorial Representations (charts, drawings, maps, photographs, prints)	93,574 *	8,523	102,097

* June 30, 1981 datum corrected from the 1981/82 Annual Report per audit done for BEF report of July 16, 1982.

C. Appointments to staff

Janet Frederick, Systems Intern, August 1, 1981

D. Separations from staff

None

E. Sponsored research or other projects

None

II. Composite of Information Requested on Individual Biographical Supplements1. Advanced Study

None

2. Sabbaticals, Leaves of Absence, Travel, etc.

Harry Broussard: Attendance at ACM chapter meetings, Las Cruces and Los Alamos; ALA Midwinter Conference; ALA Annual Conference; NMLA Annual Conference

Janet Frederick: ALA Annual Conference

3. New Scholastic Honors, Fellowships, etc.

None

4. Publications

None

5. Other Research Projects or Creative Work in Progress

Broussard, Harry C. and Stephen J. Rollins, "University of New

Mexico / Request for Proposal / Library Circulation and Inventory Control System", submitted to ERIC
 Frederick, Janet and Bernard Hurley, "Designing a User-Interface for a Dual System Online Catalog", in process

6. Activities in Learned and Professional Societies

Harry Broussard: Worked registration desk at NMLA; Formed LITA ISAS Microprocessor Discussion Group at ALA in San Francisco, and served as chair - also assisted with LAMA program at ALA;
 Janet Frederick: Ex-officio secretary of RTSD/RASD/LITA MARBI Committee

7. Other Professional Activities

Harry Broussard: Panelist at IWPA chapter conference in Albuquerque; Demonstrated the Kurzweil Reading Machine at Technology Showcase
 Janet Frederick: Attended AMIGOS workshop on OCLC Acquisitions subsystem; Attended AMIGOS workshop on OCLC Name Authority file

8. Non-teaching University Service

Harry Broussard: Member, Faculty Senate Computer Use Committee; Chair, CUC Text Processing Subcommittee; Chair, CUC Consulting Subcommittee; Member, CUC Operations Subcommittee; Member, CU Networking Committee; Member, UNM Word Processing Advisory Committee; Member, UNM Faculty Senate; Member, campus-wide Apple User's Group; Speaker, UNMGL brown bag luncheons on com

puterized indexing and on identifying documents in the
serials fiche; Member, UNMGL Promotion Committee; Member,
UNMGL Intern Search Committee

Janet Frederick: Member, UNMGL ad hoc committee to examine the
position of Assistant to the Dean for Management; Member,
UNMGL Map/Government Documents Librarian Search Committee

9. Public Service

Harry Broussard: Usher at St. John's Cathedral

ANNUAL REPORT
SYSTEMS INTERN

Janet Frederick

The year of my internship was scheduled in such a way that I would spend time in several departments working on various applications of automation and relating these, when feasible, to the implementation of the automated inventory control system (ICS).

As the year progressed, more energy and time was devoted to the installation of the ICS and planning for the implementation of this system. This is not to say that the various departments of the library were ignored, because my scheduled activities were not exactly as written. Rather, my activities were concentrated in planning for an integrated workflow and utilization of the ICS.

I think this planning stage was productive for several reasons:

- I. Staff involvement - Communication and consultation with all staff in preparation for implementation is essential for understanding and acceptance of an automated system.
- II. Database Development - This activity is essential to proper utilization of the circulation system.
- III. Time frame - The time devoted to planning allowed us to anticipate problems that might effect operation with hardware, software, database (policies and procedures for use) and the staff.

I intend to cover in this report, all activities in which I participated and/or performed this year, and indicate the areas of ICS operation involved and library departments consulted and effected. I will include comments of an evaluative nature where I feel it is important.

I. STAFF INVOLVEMENT

One of the most important considerations in installing and implementing an automated system is informing and involving all levels of personnel. John Corbin* states:

Installing any new system in the library is disruptive for both staff and patrons. Introducing a new computerbased system can particularly be traumatic because it involves technology and procedures requiring use of machines which some people fear and distrust. The success of any new system depends to a great extent upon the cooperation and interest of the staff who manage, operate, and use it; therefore, it behooves library management to include a well-planned, well-executed orientation and training

*John Corbin, Developing Computer-Based Library Systems, Oryx Press, 1981, p. 96.

program in the system development process.

This is not a new or isolated viewpoint. The warning occurs over and over again in the literature of automation that staff involvement helps to eliminate resistance and allay fears.

We began this process by setting up an Implementation Task Force (ITF) consisting of department heads and other staff, representing all areas of the General and Law Libraries operations. The stated purpose of the ITF was...to inform departments on the progress of the ICS installation and to be the decision-making body for implementing policies and solving problems related to the system.

We further identified special areas of concern that would require committee discussion and decision-making. These "working groups" were made up of staff directly involved with the charge specified for the group:

ACQUISITIONS - Evaluate and plan for the acquisitions subsystem of the ICS, including studying the present system and planning for future integration and change over.

CIRCULATION/RESERVE - Profile preparation, media codes, fine codes, patron records, etc.

FUTURE CATALOG - Investigate alternative forms for public and shelflist catalogs as well as examine types of data for the database.

NETWORK - Investigate future expansion of the system to areas beyond General and Law Libraries; work with CSIS to implement transfer of data from other databases to the ICS database (e.g., BATAB, MARK IV, BNA, etc.)

OCLC/ICS INTEGRATION - Investigate various aspects of database creation and quality control.

PUBLICITY - Plan and work with other UNM departments (e.g., Public Information Office) to prepare releases, design brochures and other informational materials.

RETROCON - Plan approaches to retrospective conversion of bibliographic and item records for the database.

TERMINAL SITES - Prepare installation sites, including furniture, security, environmental conditions, etc.

The ITF and working groups plan was presented to the Executive Council for approval.

The next order of business was to present to the members of the ITF facts about the system for which contract negotiations were in the final phase, plans for installation, and plans for database development. The

design and presentation of this information was handled by Harry Broussard, Project Director and Assistant to the Dean for Systems, Steve Rollins, Assistant Project Director and Head of Circulation, and myself, with some assistance in discussing the area of database preparation by Chris Sugnet, Head of Bibliographic Control.

Once the contract negotiations were completed, we took our presentation "on the road" and gave it to all library staff, by department, changing the emphasis of aspects of the system depending on the department to whom we were talking. We also gave a presentation to the Faculty Library Committee and the Fine Arts Library Faculty Committee.

We sought and received permission from the ICS system vendor to use their database and demonstrate the system through dial-up access.

The idea behind the formation of the task force and working groups, as well as the demonstrations of the system and presentation of our plans, was to communicate with the staff and involve them in planning. We hoped to reassure people as well as enlist their assistance in decision-making. The presentations and demonstrations proved to be the best vehicle for communication, possibly because the groups were relatively small and we were able to point out how the implementation of an automated circulation system would effect their work procedures and how their work would effect operation of the circulation system. These sessions were dialogue oriented, with staff asking questions and making comments.

The working groups meetings were beneficial in making decisions relating to various aspects of the system. Many decisions, such as which MARC fields we wished to include in the bibliographic record, could have been decided by one or two people, but we wished to make sure we were not ignoring the impact a decision made in one area of library operation would have on another area.

These meetings were fruitful and helpful, especially in the planning of the database: retrospective conversion and OCLC tape processing.

The ITF meetings, mainly communication vehicles as opposed to decision-making sessions, were not, in my opinion, as beneficial. The main reason for this was they were not well attended. Those people whose departments were directly involved in aspects of implementation attended regularly. However, some departments where implementation was further removed in time and work processes did not send representatives. Other library staff members who would have direct involvement with the system, or who could have contributed from knowledge and past experience, were not included in the task force membership.

II. DATABASE DEVELOPMENT: PLANNING AND PREPARATION

- A. Retrospective Conversion
- B. OCLC Tapes
- C. Serials Tapes

There was one main source of bibliographic data from which we were going to prepare our database: OCLC tapes. We had records for materials acquired from 1974. We did not know, however, if these records were of a sufficient number to begin operating an automated circulation system.

One of the first projects we designed was a statistical analysis of circulating materials to determine if at least 50% of circulating materials were in machine-readable form. This study was formulated by members of the ITF Future Catalog working group in consultation with Dan Lester. Dan designed and conducted the study from our specifications. The results were quite promising and we proceeded to plan a retrospective conversion project based upon this study and other figures.

A. Retrospective Conversion

Planning the retrospective conversion project was based upon the premise that circulating materials should be converted first, since the system we were installing was to initially be a circulation system. We also took into account plans for an online catalog and kept that contingency under consideration.

Other factors that had to be considered were the use of the ICS by other areas of the library. For example, the Acquisitions department which currently searches many files in processing orders, would now have an additional online file to consult. Should converting files also take imprint date into account as well as the other factors, and would this be of enough benefit to acquisitions to warrant selective converting? The serials department was conducting a reconciliation project which included converting to machine-readable catalog records. Was this project going to produce enough database records to keep pace with serial and periodical circulations?

The branch libraries were not a matter of immediate concern. This was because most materials in these libraries had machine-readable cataloging and they would not be utilizing the circulation system for about a year after Zimmerman.

Certain collections such as government documents, maps, and sound recordings in the Fine Arts Library were not included in the initial plans for retrospective conversion because they are, for the most part, non-circulating items. However, these items would have to be considered at a later date when planning an online catalog.

In conjunction with members of the future catalog group, especially Chris Sugnet, Steve Rollins, Diane Stine and Harry Broussard, I prepared flow charts for the three phases of retrospective conversion. The plan basically revolved around using discharge cards forwarded by the circulation department to the bibliographic control department. These

would be compared against the shelf list to determine if a machine-readable record was available. Later, when the books in the library had been labeled, those without labels would indicate that there was not a MARC record. Then, discharge cards for unlabeled items would be forwarded to the bibliographic control department.

The flow charts, along with accompanying narrative, served as the basis for developing a separate retrospective conversion team (retrocon), training the new retrocon staff and guiding the work flow and procedures.

I further drafted a work flow plan for newly acquired materials; specifically, how to handle labeling and item conversion (adding copy information to the bibliographic record). The draft has been forwarded to Harry Broussard and will be reviewed by Technical Services staff after editing.

The detailed planning, research and discussion that went into the retrospective conversion project plan was an excellent example of the planning process. I was impressed with work and ideas contributed. I think our documents (the shelflist study and the retrocon plans) could be synthesized, and with some additional material on the outcome of the project, would be a good article for publication.

B. OCLC Tapes

The AMIGOS Bibliographic Council worked with Harry Broussard, Steve Rollins and me (as well as other members of the Future Catalog group) on a processing plan for our tapes which consisted of more than 300,000 bibliographic records. Initially, we developed procedures for eliminating duplicates, but as we worked further on the specifications, we discovered we could have important additional processing done.

One of the most time-consuming tasks of creating a database for a circulation system is adding copy information to the bibliographic record so that individual copies can be circulated. By specifying certain attributes of the MARC bibliographic record, we devised a means by which a computer could create copy specific data for at least one copy of each title. The specifications, in brief, were that the computer program would identify the holding library code and assign the copy to the correct location. Then by checking coding in the fixed field, the media type (book, serial, etc.) could be determined. The call number was added to the item record from the call number field in the bibliographic record; and an algorithm for creating the correct sequence of OCR (item) numbers was employed.

This took some time to devise and required a lot of conferencing among ourselves and AMIGOS since we were the first library to devise such a scheme.

The results were quite impressive considering the amount of staff and computer time required to do this manually after the OCLC tapes have been loaded. Now that we and AMIGOS have the experience, I think we could do a more perfect job in much less time.

Again, this project was very satisfying. The staff involved in the planning at both institutions were diligent and clever. We have discovered that by adding the additional data (item information) to the bibliographic record we have increased the time it takes to load the DataPhase database. However, the benefits still appear to far outweigh the delay in loading time.

I have begun further work with the OCLC bibliographic records which will be done for the most part during the next three months. This work involves correction of some errors from past practices with OCLC cataloging and various other problems. I have also drafted a document establishing policies and procedures for using fields in OCLC and database maintenance with a goal towards quality control.

C. Serials Tapes

As I stated earlier, when developing the database, we had to ask questions about its future impact on departments such as acquisitions. Due to the fact that materials cataloged since 1974 would be the largest part of the database, and the retrocon project was to work on circulating materials, we decided not to convert items based solely on imprint date. Until such time as we have an online catalog, searching several files will remain a necessary procedure for acquisitions staff.

The serials reconciliation project was a different matter. Reconciliation is a complex operation and the re-cataloging of a serial title is very time-consuming given the changes occurring throughout the years. We were concerned about having a sufficient number of serial titles in the ICS database onto which we could attach item records. We thought that the serials staff would most likely not be able to keep up with the conversions necessary to keep pace with circulating titles. Additionally, the emergency conversion function on the DataPhase system did not appear to be a solution and could cause long delays for patrons checking out serials.

At the present time we have a list of serial titles along with holdings, location and call numbers in machine-readable form. This is the serial file produced by the UNM Computing Center for microfiche production.

Since the DataPhase system is programmed to accept the MARC format, I thought it might be possible to have these serial files translated into a quasi-MARC format. I wrote a statement of the problem and specifications for performing this transformation, and have submitted a Request for Information to the UNM Computing Center and AMIGOS Bibliographic Council.

To date we have received a reply from AMIGOS. Their feeling was that since this was a one-time project and would not be useable for other libraries, we would have to bear the entire cost of the programming. The UNM Computing Center should be sending an estimate soon. If they are able to do this job, I think we will be in excellent shape to begin circulation of serials. Addition of item records to these titles is a small part of getting the necessary data online. This would mean that we would have a title record in the ICS database for all serials in the library. Item

records could be added "on-the-fly" as the volumes circulate. Once the reconciliation of a particular title occurs, the OCLC record would "bump" the quasi-MARC record.

I enjoyed this project a great deal and will be very happy if it is completed. However, there is some doubt that it can be done due to cost and complexity.

Another area that I investigated earlier, was the addition of BNA tapes to the database with the idea of helping acquisitions and reference with access to in-process titles. Although DataPhase says that this is possible, there are problems involved and they were not very encouraging. We decided to delay an activity like this due to its inherent problems and work instead with circulating titles, looking forward to an online acquisitions system, which is under development at DataPhase.

III. TIME SPAN

Due to the fact that there were delays throughout the year in the system installation, the project director, the assistant project director and I were able to spend more time on the aforementioned plans and projects.

Most delays were due to hardware problems, of which we had more than our share. We have been able, however, to utilize the time to great advantage:

- A. The system operators have had a great deal of experience in operating and handling such exigencies as "crashes", loss of data, etc. If this sounds a bit Pollyana-ish, I think it is because these problems are more easily dealt with now (and better learned) than when we are operating a circulating system.
- B. We were able to learn a lot about the online functions and capabilities, as well as the limitations of the system since we had a test file of records with which to play.
- C. The planning for development of the database was a benefit which might not have occurred had we not had the time. At that, we are finding little "glitches" that we had not anticipated. I have as my next project to outline the database errors, their causes, extent, and methods for correction and prevention.
- D. Additional time for communication with staff was very helpful. I attempted to use the GLOB to keep people up-to-date on the installation, emphasizing the positive news so that staff would not develop a negative attitude about the system before we began normal operation.

IV. ADDITIONAL PROJECTS AND AN OVERVIEW

Other projects with which I was involved were the serials KWOC index editing, and a few other things that were being done by the UNM Computing Center.

I arranged the training sessions for the IBM word processing system and continued with further training for the office staff, including designing SCRIPT practice exercises for those trained.

Library committee work included the search committee for the head of the Government Publications and Map Department, the committee to evaluate the position of Assistant to the Dean for Management, and the Catalog Task Group.

There were many little jobs done as a part of the DataPhase system installation such as ordering equipment and supplies, etc. However, these were day-to-day operations for the systems intern.

The year's work was an invaluable experience for me. The interaction with all levels of library staff, in planning meetings, presentations, Executive Council and committee meetings was beneficial and educational. Every project I worked on, whether done alone or with others, required me to work with people in the departments involved. This sharpened my communication skills and gave me experience in listening to others views and ideas. I would like to commend the staff, also; especially those with whom I worked most closely--Harry Broussard, Steve Rollins, Diane Stine, Benita Weber, Chris Sugnet, Cecelia Briley--for their ability to listen and contribute and work hard.

The Systems Internship is unique because it is practically the only way a new librarian can gain this kind of experience. Further, I think my internship was especially good because I was so closely involved in all aspects of system implementation.

Thank you for allowing me the opportunity to work on the many exciting projects and to contribute in some way to the progressive growth of the UNM General Library.

August 11, 1982

The Report of the Readers' Services Division
of the General Library
July 1, 1981 - June 30, 1982

I. General Departmental Information

A. Significant achievements during the academic year

The activities of the Readers Services Division this year were a confirmation of the fact that the commitment and dedication of its faculty and staff make the continuous maintenance of good service and the expansion of services into new areas possible.

In spite of vacancies in key positions, and the need to adapt to major changes and additional services, the people working in the Division have continued to maintain regular services while planning, preparing and implementing expanded areas of library service.

The major changes affecting the Readers' Services included:

- (1) Installation of the hardware for a computerized system and beginning the implementation of the system for this library.
- (2) Developing a new service for visually handicapped students through the use of a Kurzweil Reading Machine.
- (3) Continued development and expansion of the Skills Center to provide tutoring and study skills services to freshman classes beyond the University Skills level.
- (4) The development of a coordinated system for providing library support and services to off-campus programs.
- (5) The planning of two major libraries for Engineering/Science and Administration/Social Science expansion programs.
- (6) The negotiation, processing, space planning and implemen-

tation of major expansions in the archival activities of the library.

- (7) The development of a new set of brochures, exercises tests, and outlines for expanded library instruction programs.

- (1) The most significant event to occur this year was the purchase of an automated circulation system. As a result of the library's request for a proposal, issued in 1980-81 for an inventory control system, a contract was signed with Dataphase, Inc. This computer system, called ALIS II, represents a major step in the evolution of library service at the UNM General Library. Once implemented, the ALIS II system will replace current manual operations, and it will offer new services to the library user which cannot presently be provided by the library. During the Spring semester, the Circulation Department with the help of the Systems Librarian, was involved in the preparation of the computer room, the arrival and setting up of the central processing and disk drive equipment and with the preparation for entry of the bibliographic data covering the library's holdings. Because a large proportion of the newer titles owned by the library system were already in machine-readable form, some innovative work with the AMIGOS Network resulted in a method by which a large portion of the circulating book collection can be entered on tape to the computerized system. This will result in a rapid input over the next few months with minimum labor involved.

- (2) In August, 1981, the General Library acquired a Kurzweil Reading Machine. The Circulation Department assumed responsibility

for the KRM in the areas of maintaining the machine and in making service available to the library community. The KRM is a desk top computer which uses synthetic speech to read printed materials, and it is designed to be used independently by visually handicapped individuals. A user places the material to be read (typed sheets, books, or magazines) on a surface scanner and the KRM reads the text aloud. KRM has 33 control keys which permit flexibility in repeating words, spelling words, reading columns, and in adjusting speed, tone, or volume. The KRM can also serve as a talking calculator.

The KRM has publicized in the Lobo and the Albuquerque Tribune, by KOB TV, KOB 77 radio and Jean Wayland's program, Forum 13. The equipment was also prominently displayed at Legislators' Day and at the Showcase for Technology at the Convention Center.

The Circulation Department implemented a training program for the KRM which includes two three-hour sessions for each individual. User cards with braille markings were created and distributed to those individuals who were certified as qualified users. An indication of the success of the KRM program occurred in June, 1982 when the President received word that the General Library would receive another Kurzweil Reader as a gift under a grant program offered by the Xerox Corporation. The Library was also chosen as a site for testing new enhancements recently made available by the Kurzweil Computer Products Division of Xerox for the talking calculator functions.

(3) The University Administration officially designated the Skills Center as a library function and recognized its relationship to other library services. The most significant achievement of the Skills Center during the past year was the expansion of services. While the Skills Center continued to provide services to students in the University Skills Program, its services were expanded to include students enrolled in Freshman English (English 101 and 102) and Freshman mathematics (Math 112, 111, 123, 150, and 162). This expansion of services resulted in more than 2500 students being tutored by the Skills Center during the academic year. The Skills Center will be affected by the establishment of the General College since the University Skills Program will be a part of that college. In May, 1982, the Center was designated as the academic advisement center for the General College for the fall semester, 1982.

(4) An important new service was added to the Library, for this year only, with the temporary appointment of a Librarian for Onsite Programs. While limited services had been provided to off-campus programs in the past, the appointment of Nancy Ashley was the first opportunity to offer dedicated help to students in these programs. Funding by a federal grant, the University Administration and the Library supported the full-time position as well as a consultant and library technical assistant at the Zuni Graduate Program. Benjamin Wakashige, the consultant, and Elaine Lazzarly arranged the move of the library collection at Zuni from a building belonging to the Pueblo to a room in the Zuni High School where it will be conveniently available to the student whose classes are held at the

school.

The Librarian for Onsite Programs, who was soon popularly called the flying librarian, made twenty-two trips with instructors to on-site programs during the spring semester, usually by chartered airplane. Weather permitting, trips were made weekly to the Jicarilla and Mescalero Apache reservations, and occasionally to Zuni Pueblo, Shiprock and Crownpoint on the Navajo reservation, and the Hispanic community of Chama.

The need for reference and document delivery service soon became evident and 48 requests were made of the librarian by students to find material on particular subjects, or to check out particular materials. These materials were either sent by mail or hand delivered by the librarian.

A program of bi-weekly library instruction was initiated at two sites, whereby students attended on a voluntary basis half-hour workshops by the on-site librarian. Two of the demonstrations of online searching were given by the online coordinator who, with the assistant deans, made a trip to the Zuni on-site program and the Gallup Branch Campus library. Combined attendance at all workshops was ninety-one.

When administrators, instructors, and students all expressed a need for help in basic skills for students, worksheets from the Skills Center of the General Library were adapted for use on-site.

Interaction with the Valencia, Gallup, and Los Alamos branch campus libraries in locating lost books, orientation to the General Library, and general liaison activities were also provided.

During the summer the routine of the on-site librarian changed considerably. Courses are not offered on-site during the summer, and many of these students attend classes on main campus. They continued to receive in Zimmerman Library the individual attention they had received from the on-site librarian.

(5) One of the major activities for the year was the preliminary planning for two proposed new library facilities. These were an Engineering/Science Library as part of a new Engineering/Science Center and a new Parish Library as part of the Anderson Schools of Management, Administration and Social Sciences Complex. New statements were developed for the Capital Outlay Plan, and a program of requirements was prepared. The University Architect prepared the Architectural Design Programs for both complexes. Project architects were selected and they have prepared schematic designs for presentation to the Regents, the Board of Educational Finance and to the State Legislature.

The Engineering/Science Library is designed as an area library serving the fields in the sciences and engineering including the Departments of Biology, Chemistry, Physics, Mathematics/Astronomy Geology, Civil Engineering, Electrical/Computer Engineering, Chemical/Nuclear Engineering and Mechanical Engineering. Dean and Hunt Associates, Ltd. were selected as project engineers. The total net assigned square footage proposed is 59,360.

Additional library space is becoming acute. The three branches, Parish Library, Tireman Library and the Fine Arts Library are already overcrowded. The Zimmerman Building now holds over one million volumes, well over one million microforms, and approximately 300,000

government publications, as well as extensive collections of maps, photographs, audio-visual materials, and archival collections. The constant need to add shelving is gradually curtailing space for study and reading.

It was decided the best solution to the space problem was a separate library for science and engineering for the following reasons:

1. The information for these subjects appears in increasingly diverse forms. Increasingly the numeric data appears via computer rather than in print form.
2. Specialized subject vocabularies are used with computerized bibliographic utilities and specialized personnel are necessary.
3. Multi-disciplinary science trends are increasing.
4. Emphasis is especially on journal literature.
5. The volume of publication is doubling every six years.
6. The literature of these disciplines is relatively easy to separate from humanities and social science materials.
7. The volume of research activity in these fields requires a dedicated research environment close to the majority of users of the library.

The Williams J. Parish Memorial Library which serves the Anderson Schools of Management will be moved and expanded under the plan to serve also the School of Public Administration and the Department of Economics: The new facility will be part of a complex which will include the Bureau of Business and Economic Research, the Data Bank, and additional space for Public Administration, Economics, Sociology, Political Science, and the Anderson Schools.

The Hutchinson, Brown, Inc. architectural firm has been selected to prepare the schematic designs for the Parish Library which will have 18,335 net assigned square feet.

(6) While the limits of space in the Special Collections Department have been an ongoing problem for some time, the situation became more acute and required major rearrangements this year with the acquisition of 1000 cubic feet of archival materials. The deposit of the senatorial papers of Senator Pete V. Domenici and the late Joseph M. Montoya and Dennis Chavez added to the existing collections of Senator Harrison Schmitt and Congressman Manuel Lujan have provided a major research collection on New Mexico's national legislators. These collections which provide a New Mexican view of the national scene and of 20th Century history also contribute to the historical resources available on the state and its people.

Substantial progress was made toward the proper processing and storing of the collections. The archival collections on Tower Level III and IV were rearranged and compacted to create more efficient storage. Substantial assets were allocated to hire extra personnel and to purchase proper archival folders and boxes for storage.

In coordination with the donors of the senatorial papers and the University Counsel, the Head of the Special Collections Department developed a model agreement addressing issues for which there had been no previous guidelines in the literature of archival management.

Ceremonies in the Anderson Room were arranged for the presentation of the papers by the donors to University officials. The

ceremonies were well attended by the family and friends of the senators and included exhibits of the resources presented and memorabilia of the senators' public service. Each of the ceremonies was followed by a reception at the University President's home.

(7) Orientation and Instruction Programs

The library instruction programs continued to develop both in quantity and quality. The number of classes or groups receiving group instruction or tutoring were:

	<u>1980-81</u>	<u>1981-82</u>	<u>%change</u>
Classes	613	1081	76%
Students	8657	14,110	63%

We witnessed a tremendous increase in the number of classes and groups taking advantage of the program in the Fall semester. The numbers fell off in the Spring and Summer, but overall there was a large increase in the number of groups and in the number of students and visitors during the year. Much of this was a result of the developing visibility of the Skills Center Services although English 101 remained the single largest group. In order to accommodate more classes, the library presentation was revised. Instead of the usual tour of the library, students were given self-guided tour/workbooks that asked them to answer questions utilizing the card catalog, reference collection, government publications, and periodicals areas. Librarians were available to answer questions and handle problems that arose. The positive response to this approach from the English department and the Reference librarians led to revisions of the tour/workbooks for other classes. Later in the year, we agreed to use it for other 100 level courses and upper level courses where appropriate, and at the same time to

follow-up lectures if requested.

Other large classes receiving instruction sessions were Sociology 110 and Engineering 115. In addition, the English 101 and Biology 121 classes which had been transferred to their respective departments returned to the library, and a few 100 level courses of several sections each were added to the program. Lectures were given to classes in International Marketing, International Marketing Management, Advertising and Promotion Management, Marketing Research, Marketing Behavior, Human Resources Management and Introductory Management. Other groups participating in the Parish program included the Graduate Association of Business Students, the TV-I small business class and new faculty and visiting faculty candidates. The latter are particularly useful in apprising incoming faculty of the services and support that the University libraries can be expected to offer.

Materials for the instruction programs were revised or created to meet new demands. These included:

- (1) The design and production of brochures describing the Parish and Tireman libraries.
- (2) The creation of new instruction materials for several classes, continual updating of older materials as needed, and a reorganization of the materials on hand.
- (3) Location and annotation of a map of the campus to show all library locations.

The brochures describing the services of the Fine Arts Library and the Special Collections Department prepared last year have been a tremendous help to us. The brochures were used in connection with

tours and lectures. The Skills Center Director and Ethnic Studies Reference Librarian developed a bibliography of study skills materials. The Skills Center Staff cooperated with the Reference Department in the English 101 tours. New classroom materials dealing with international agencies and resources as well as materials for industry analysis were prepared and the class lectures in international management were revised and updated.

Ongoing Activities

As a result of the resignation of Sandra Coleman, Head of the Reference Department, the responsibility for that department was taken by Mary Ellen Hanson from July 1, 1981 until September 1, 1981 and by Francis Oscadal from September 1, 1981 until June 1, 1982, when Kay Jones was appointed as the new Head of the Department. Teresa Marquez, the Assistant Head of the Government Publications and Maps Department was reassigned temporarily to the Personnel Office from September 1, 1981 until April 1, 1982. Even though handicapped by the loss of these two positions, the Readers' Services Division maintained its services and continued to find ways to improve its operations. Temporary appointments and the use of occasional employees, as well as the assumption of extra duties by regular faculty and staff, permitted the Readers' Services Division to complete a successful year. Regular services were maintained and continual efforts were made to improve efficiency in services and procedures. A number of projects were completed during the year that resulted in improved bibliographic and physical access to collections. Certain microform collections were consolidated to provide easier access and more complete records. The project to identify duplication between depository and commercially available

Department of Energy technical reports was completed. All micro-filmed newspapers were reviewed to determine their classification status, and it was found that 398 titles were cataloged and 126 were not. An effort will be made to get all of these cataloged. Improved access to photographic materials was achieved by revising the guide to these resources. Better bibliographic access, more convenience for readers and more flexibility for staff to archival and manuscript collections occurred when unwieldy notebooks, were replaced by card files. Access is available through card files of personal names, corporate names, place names, and chronological periods. The Ethnic Studies staff developed two plans to compile materials related to the Navaho-Hopi land dispute, and the compilation of bibliographies containing material by and about Southwest Chicano authors. Subject headings in the Ethnic Studies card catalog. were updated. A reference file of minority organizations was created; the file is made up of groups within New Mexico primarily with some organizations elsewhere in the Southwest also included.

The Circulation Department's Document Delivery Service continued into its second year of operation. Several new customers were added to this program. D'Appolonia Consulting Engineers, the ITRI Library of Lovelace Biomedical and Environmental Research Institute, Quivera Research, and Sun Belt Mining signed document delivery contracts with the General Library. The total number of research institutes or companies which have signed contracts for document delivery service has increased to nine. Of the 5,004 requests, 4,883 documents were delivered for a completion rate of 97.6%. The Circulation Department successfully introduced several new

methods for transmitting or for ordering documents for the library's patrons. The use of DIALOG's DIALORDER system was expanded to include many more commercial vendors. In 1981/82, the Circulation Department received materials for the first time via DIALORDER from the following suppliers:

- University Microfilms International
- Chalmers University of Technology Library (Sweden)
- Colorado Technical Reference Center
- Library of Delft University of Technology (Netherlands)
- Harker's Information Retrieval Systems (Australia)
- Library of the Royal Netherlands Academy of Arts and Sciences
- Maruzen MASIS Center (Japan)
- Medical Literature Retrieval (Seattle)
- American Society of Metals
- Management Contents
- Norwegian Institute of Technology (Norway)
- Business Information of Technology (Denmark)
- National Standards Association

With the Library's previously established connections with the British Lending Library, Chemical Abstract's Document Delivery Service, the Engineering Societies Library, and with Technische Informationsbibliothek (Germany), the Circulation Department has at its disposal an international network of document suppliers. Presently, the Library has available via DIALORDER the services of more than 65 commercial vendors.

To improve the method of submitting orders to the Universal Serials and Book Exchange, the Circulation Department began to use BRS's electronic mailbox. This approach has proven more effective than the mail for ordering materials and for receiving status reports from USBE. USBE and Chemical Abstract's Document Delivery Service also became available via OCLC/ILL. Using OCLC for submitting requests to USBE or to Chemical Abstracts can be a suitable alternative to BRS or to DIALORDER if the requested title is included in OCLC's

bibliographic files.

The demand for the online search service continued to increase last year, although at a slower rate of growth than in previous years. There was a 13% increase in search requests over 1980/81, and an 85% increase since the first year of operation in 1978/79. There was also an increased use of the service to aid in answering reference questions. During 1981/82 we went online 208 times for reference assistance when other sources had been exhausted.

Graduate students were the heaviest users, accounting for approximately 55% of the requests; faculty accounted for 20%, undergraduates 13%, library staff, Friends, and other 12%. The majority of searches continued to be in the field of education followed by the social sciences, sciences, and humanities.

There were numerous opportunities for online searchers' training at Zimmerman. Dialog, BRS, and the N.Y. Times Information Bank held sessions here. In addition data base producers such as IAC (Management Contents, Magazine Index, Legal Resource Index), CIS (Congressional Information Service, American Statistics Index), and Disclosure offered specialized workshops.

The Search Service continues to be a regular component of library instruction. Search demonstrations were held for several visitors to the library during the year; several reference librarians participated in online demonstrations at the NMLA State Fair booth in September and at the New Mexico Technology Showcase in October.

The Public Service aspect of the Robb Archive was particularly heavy this year. The staff worked with and prepared tapes for:

- (1) Chimayo public schools curriculum committee

- (2) Albuquerque public schools music curriculum (Laotian)
- (3) Albuquerque Zoo (African Safari)
- (4) Wheelwright Museum of Indian Art, Santa Fe
- (5) School of American Research, Santa Fe
- (6) New Mexico Symphony 50th Anniversary Celebration
- (7) UNM Legislators Day (art and music of New Mexico)
- (8) Rowen Rivera for her lectures at University of Michoacan, Mexico.

It is rewarding to see the archive being used for projects that return the music preserved to the people of the state.

Reference statistics were not taken during the Fall and Spring semesters while a new machine-readable form was designed. The form was designed and printed in time to test it during the Summer session, and statistics were taken for one week in June.

An exchange of visits between the Special Collections Staff and the new administration of the State Records Center resulted in plans for cooperative interchanges. As a result of these visits and a contribution from COSA, the Sanborn maps of Albuquerque were microfilmed by the State Records Center. This will help to preserve the originals and permit use of the information at other locations.

As a result of a meeting with Alex Sanchez and Jon Cooper, the Library has begun to collect video tapes produced by KNME for its program, The Illustrated Daily. Certain programs of long term interest which reflect the history of Albuquerque and the state are selected for duplication on 1/2 inch video tape before they are erased by KNME. These will add another form of

information for the local and state history collections in the Special Collections Department.

Jim Wright received a one-month extension and a three-month supplemental (\$7867.00) on the National Endowment for the Humanities Grant "Documentation of the Navajo-Hopi Indian Relocation Dispute." The work was completed September 30, 1981. Two one-hour programs were aired over KUNM-FM on September 21 and 22. The one-hour program "The Navajo-Hopi Land Dispute" was aired nationally over the National Public Radio (NPR) net work on June 1, 1982.

Readers' Services staff also made a major contribution of time as volunteers in the project to refile the main public catalog.

In preparation for the creation of the ICS data base, inventories of the Coronado, Anderson and UNM rooms were completed and the inventory of the Fine Arts Library was completed except for minor clean up. The reclassification of the Fine Arts periodical collection resulted in the library's collection being completely in the Library of Congress Classification except for fifty of the rare books.

The Government Publications Department continued to adapt to an increasing number of materials received on deposit, through Documents Expediting Service, through selection and the increasing use of microfiche by the Government Printing Office. Two organizational measures provided much needed space in the stacks; The Flood Insurance Study reports that numbered about 1500 volumes were transferred to North Storage, and the National Aeronautic and Space Administration reports received in hard copy were shipped to Documents Expediting Service in Washington, D.C. The department will keep the microfiche copies of these reports. Several hundred

congressional hearings that the department received in paper copy were replaced with hard bound volumes as a conservation measure. A major preservation project was the encapsulation of many of the maps in archival quality plastic. This reversible process will help to preserve them until a better method has been devised. Copies of duplicate U.S. maps were sent to La Universidad Autonoma de Guadalajara, Mexico as part of the exchange program established between the two libraries, and additional cartographic materials were shipped with the maps.

As a result of the regular attention to improving services, several of these activities accomplished or made substantial improvements toward the future objectives listed in last year's report.

Space and Equipment

Clearly too much time and effort had to be spent this year trying to alleviate the problems caused by inadequate or non-functional space.

After viewing the state of our older materials which are housed in a warehouse on North campus, the Parish Librarian decided that immediate action was necessary to prevent further deterioration. With the help of the Circulation Department, space was set aside in Zimmerman's Tower Level nine and a large group of materials was moved there. These included back runs of Moody's, Poor's Financial Records, Barron's, Fortune, Business Week, Forbes and other important pieces. The move will prevent further deterioration and also make it possible for this material to be paged at all times the library is open. Title by title examination of the collection in Parish to complete the weeding of both serials and monographs

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ceased this year but a temporary position was assigned to complete the removal of those items weeded in the previous year. The entire collection was also counted providing us with an accurate statistic on serial and monographic volumes.

A more efficient and complete use of space, for both the present and future housing for archives was achieved by re-evaluating, reorganizing, and shifting the contents of Stacks 3 and 4. More efficient access to the largest archive, the records of the First National Bank of Santa Fe, was achieved when this room-size collection was reorganized. Servicing these collections was facilitated by compiling a description of the many idiosyncratic shelving arrangements in the department. At the request of the Fine Arts Library, the phonodisc collection was moved from the limited storage area in FAL to Zimmerman's Tower Level 9. The Circulation Department also continued to work in Tower Level 9 and in North Storage as part of the overall plan to provide a suitable in-house storage facility.

Security, space, and adequate staffing remain serious problems at Tireman. Security has not improved. It is still easy for anyone to enter Tireman after hours, and the collection continues to suffer losses. Space becomes a more serious problem each year as all areas of the collection continue to expand. Some relief was forthcoming this year as the result of a gift of locked cases from the Osuna Family and by a trade for larger book cases. Tireman continued as a State Regional Textbooks Evaluation Center. Late in the year and on rather short notice arrangements were concluded between the department of Special Education and the General Library for Tireman to acquire that department's library.

A major improvement toward solving some of the space problems occurred with the delivery of over thirty thousand dollars worth of new shelving for Zimmerman. This is part of a three-year plan to expand Zimmerman shelving.

A new inside book drop was installed by the university carpenters. The new book return chute should decrease the possibility of damaging library materials when items are returned to the Library. A new IBM terminal, which will eventually replace the department's DEC terminal, was installed in the Circulation Department. The new terminal provides access to VSPC and to SCRIPT and it will be used to access student records once the STAR system is transferred to the IBM mainframe.

The constant increase in volume of photocopies required a re-evaluation of the equipment. It was decided to purchase the Xerox 9500 and to continue renting the Xerox 9200 as a backup for large runs of a single item. The sudden imposition of an overhead charge by the University resulted in a very tight budget for this service. Some cuts in services may be necessary in order to pay this addition of 10% to the costs, and prices on some services will have to be raised.

UNM's Affirmative Action Office donated to the Library a "talking" encyclopedia, The World Book Encyclopedia which is designed for use by individuals with visual handicaps. A large print and a braille index is provided which lists the "digital" address of a particular subject entry. A user of the encyclopedia would select the proper cassette and would then set the specific address on the tape player. The "talking" encyclopedia has been placed in one of the Library's rooms which are reserved for use by visually

handicapped individuals.

B. Significant plans and recommendations for the near future

Space

A number of the major objectives listed in last year's annual report still remain as goals for the coming year. The primary concerns still has to be the building or remodeling of facilities needed to provide the space for expansion of collections, services and comfortable study areas in all of the General Library.

A high priority must be given to seeking funding for the proposed Science/Engineering Library and Parish Library plans. If funding is available the goal of refining the plans and working with architects toward completing all plans for space, personnel and equipment would be a major focus for attention. At the same time plans need to be developed for added space or a new facility for the Tireman Learning Materials Library and for the Fine Arts Library. The Zimmerman Building should be reexamined for better space arrangements to handle the growth of the government publications and archival collections. The expected increases in Skills Center services will also require additional space.

There is a need for short term plans for handling the space emergencies until new facilities are built. Parish library has reached the limits of its available space in the reference, display and report collection areas. These areas must be expanded if we are to continue to upgrade our collection and provide access to materials which are in demand. Furthermore, the addition of materials for the eighteen new courses in commercial skills in the General College as well as additional proposed courses in the

Schools of Management will require more space.

The Fine Arts Library needs additional space for the music collection and for the continuing growth of the John Donald Robb Archive of Southwestern Music. Its facilities also need to be improved by the addition of a better entrance designed to provide direct access for handicapped people and by adding carpeting for better sound control.

Space continues to be a critical issue for the Government Publications and Maps Department. Reorganization activities and the increased reliance on microfiche have helped some in alleviating the need for more space. However, plans for remodeling the department should be resumed and office space provided for the two librarians. Until government publications are easily accessible to the public, this area will remain an underutilized resource.

While additional tutoring spaces will be available in the Skills Center as a result of equipment now on order, the space allotted to this growing service has already been outgrown and will be acute by next year.

The Special Collections Department still needs to have additional space as well as remodeling to permit better arrangements for the collections, more efficient use of personnel and attractive areas for exhibits and public use. The plans for a Southwest Wing need to be better defined and steps taken toward reaching the long term goal for better use of the west wing of the Zimmerman Building.

Some recognition must be given to the constant growth in the use of the General Library. With well over a million people coming into Zimmerman and over a hundred thousand entering each of

the branches last year, we must plan the space adjustments for what appears to be an ever increasing use of libraries.

Services and Personnel

Six hundred and twenty-two online searches were done in FY 1981-82 and continued the pattern of an increase of about a hundred each year since the service was begun. As a result there is a consistent overrun on the budget for this service. One of the goals for 1982-83 will be a study to find ways to increase the efficiency of the service by insuring that printed indexes has been properly used, that the least expensive vendor is chosen and that the correct data base is selected. The pricing structure will also be examined to see if users of higher priced bases should pay a higher fee.

It is recommended that the Skills Center continue to expand its services to U.N.M. students. The next areas of expansion should include (1) the development of a reading and writing lab; (2) providing tutoring services to students enrolled in advanced math courses and regular entry level natural science courses; and (3) the development of study skills courses offered for credit. More teaching assistants and tutors will be needed.

The position of Librarian for On-site Programs has filled a need in the General Library by providing a person to deal with demands for library service arising off-campus, it has filled a need in the on-site programs by providing efficient library service to supplement those academic programs, and it has filled a need in the branch campuses by providing a liaison and contact person within the General Library. Serious consideration should be given to making this a

permanent position.

A major goal for the coming year will be the switch to Automated circulation of the books in the Zimmerman Library. Tentative plans include the possibility of beginning reserve service on January 1 and full circulation for summer session if all of the synchronization of data base construction, book labelling and programming can be arranged. If delays occur the schedule would be moved back to the fiscal year 83-84. Staff training, user registration and work on the matching of books to the item record in the data base will take up much of the time this year.

One librarian is inadequate to handle all the areas which are the responsibility of the Parish librarians. The present half-time temporary position should become a full-time position. This year, in particular, will bring increased demand on the staff because of the addition of the commercial skills courses in the General College. While the University provided additional teaching faculty and some money for materials, no money was provided for library personnel. In addition, because of the unsophisticated nature of the students expected to enroll in these programs there will be a need for much more assistance than for our current clients.

Other Goals

Some of the other goals for the coming year will be:

- (1) To continue expansion of the Document Delivery System and reference service to the business community of the city and state.
- (2) To organize a Folklife Festival to emphasize the folklore and music of the city's ethnic population.

- (3) To add to and update the equipment in the Listening Center.
- (4) To seek recognition of the instruction program in the library and include a credit course in use of the library under the General College.
- (5) To seek ways to improve our coordination with other multi-media and computer services on campus.
- (6) To seek funding for implementing the sign proposal recommended by the consultant on this project.
- (7) To secure OCLC terminals for cataloging recorded sound materials and government publications.

The coming year will be a busy one for Readers' Services staff, hopefully an exciting one with new automated systems and possibilities for new facilities and as usual a rewarding one as we continue to improve our services to the campus and the community.

Readers' Services Statistics

	<u>1980/81</u>	<u>1981/82</u>	<u>% of change</u>
Library Use (Gate Count)*	1,374,806	1,419,252	+ 3.2
Zimmerman	1,089,310	1,130,945	+ 3.8
Parish	164,566	168,607	+ 2.4
Fine Arts	120,930	119,700	- 1.0
Outside Circulation**	355,525	350,754	- 1.3
Circulation***	362,235	363,962	+ 0.5
Zimmerman	260,192	261,096	+ 0.3
Parish	19,058	23,381	+ 23.0
Fine Arts	39,625	43,319	+ 9.0
Listening Center	14,719	12,329	- 16.0
Tireman	25,297	22,958	- 9.0
Evaluation Center	574	879	+ 53.0
Reserve Circulation	65,641	81,650	+ 18.0
Zimmerman	48,710	60,864	+ 24.0
Parish	6,748	8,418	+ 24.0
Fine Arts	10,183	12,368	+ 21.0
Interlibrary Loan	8,583	8,668	+ 1.0
Borrowed	3,784	3,582	- 5.3
Lent	4,799	5,094	+ 6.0

* Does not include Tireman

** Includes interlibrary loans and reserve but does not include the Listening Center and Evaluation Center

*** Includes all recorded circulations

C. Appointments to staff

Nancy Ashley	Instructor, Temporary	12/1/81
Rhea Bradley	CS III (50%)	4/5/82
Betty Jean Campbell	CS IV, Occasional	4/19/82
Patrick Dawson	CS III	10/26/81
Carolyn Dickerman	Assistant Professor	8/17/81
Gail Doherty	LTA II	9/30/81
Gay Finlayson	CS III	6/28/82
Robert Garilli	CS I	8/31/81
Barbara Gienger	LTA II, Transfer	8/3/81
Ted Greer	CS IV, Transfer	2/18/82
Rex Hopson	Assistant Professor, Transfer	7/1/81
Kay Jones	Assistant Professor	6/1/82
David Kurrasch	LTA I	6/28/82
Carleen Lazzell	CS IV, Occasional	1/13/82 and 4/19/82
Elaine Lazzarly	LTA I, Zuni	11/9/81
Margaret Mackey	LTA I, Occasional	3/29/82
Dan Mahoney	CS I	8/31/81
Vanessa Moats	CS IV	1/4/82
Jennifer Montoya	CS III	10/5/81
Barron Oder	CS IV	10/26/81
Angela Pabish	CS I	8/24/81
Rosalind Rock	CS IV, Occasional	2/22/82 and 4/5/82
Carol Simmons	LTA II	8/19/81
Stella Torres	LTA II, Transfer	10/20/81
William Tydeman	Library Specialist I Occasional	1/4/82 and 4/19/82

D. Separations from staff

Betty Jean Campbell	CS IV, Occasional	6/25/82
Deborah Eagan	Instructor	6/30/82
David Epstein	LTA II	8/29/81
Joanne Gomez	CS IV	12/18/81
Ted Greer	CS IV, Temporary	8/3/81
Rex Hopson	Assistant Professor	11/2/81
Carol Joiner	CS III, Transfer	9/2/81
Carleen Lazzell	CS IV, Occasional	4/5/82 and 6/30/82
Maggie Lauver	LTA II, Transfer	9/14/81
Leslie LaVigne	CS IV, Transfer	9/24/81
Margaret Mackey	LTA I, Occasional	6/29/82
Carolyn Marchand	LTA II (50%), Transfer	3/30/82
Jennifer Montoya	CS III	5/3/82
Angela Pabish	CS I, Transfer	9/14/81
Rosalind Rock	CS IV, Occasional	4/2/82 and 6/18/82
Archibald Sawyer	LTA I	7/24/81
Charles Seavey	Assistant Professor	6/30/82
William Tydeman	Library Specialist I Occasional	4/2/82 and 6/30/82
Mary Ann Vigil	Department Secretary	11/17/81
Fran Markel Wilkinson	CS III, Transfer	3/15/82
Shirley Wozniak	LTA II, Temporary	7/30/82

E. Sponsored research or other projects

- a. One member of the Readers Services Faculty submitted a proposal to an outside agency. This represents four percent of the faculty.
- b. One member received an award from outside. This represents four percent of the faculty.

II. Composite of Information Requested on Individual

Bibliographical Supplements

1. Advanced Study

Alice Clark - Beginning Painting, Beginning Drawing, UNM
Continuing Education

Deborah Eagan - Intermediate Spanish course for faculty

Donald Farren - Completed DLS degree, Columbia University

Dissertation: "Subscription: A Study of Eighteenth-Century
American Book Trade."

Mina Jane Grothey - Spanish 422 (Calderon and his Contemporaries),
UNM

Mary Ellen Hanson - History 476, (American Social History),
American Studies 501, (Schooling in America), UNM

Bonny Hilditch - Lockheed Science/Technology Workshop, Chemistry
Workshop, Medline Workshop, BRS Workshop, Geography Reference
Workshop

Nancy Carol Hutchins - Lockheed Science/Technology Workshop,
Chemistry Workshop

Ernestine Paniagua - Accepted in masters' program of Guidance
and Counseling, UNM

Ellen Robertson - Disclosure II Workshop, IAC Data Bases Training,
N.Y. Times Information Bank II Training

Dorothy Trester - Journalism 110 (Evolution of Television), UNM

Zanier Vivian - U.S. Defense Technical Information Training
Course, Los Alamos, N.M.

2. Sabbaticals, Leaves of Absence, Travel, etc.

Judith Bernstein - Travel to New York, Michigan, California, Texas

Deborah Eagan - Maternity Leave, April 6 - June 19

Donald Farren - Leave of Absence, January 1 - March 31

Beatrice A. Hight - Visited Beinecke Library, Yale University;
General Library, Wesleyan University; Metropolitan Art
Museum; Guggenheim Art Museum, New York City; Nelson Art
Gallery, Kansas City

Nancy Carol Hutchins - Travel to library and information facilities
at Technische Hogeschul and International Translations Centre,
Delft, the Netherlands; Max-Planck Institute for Plasma Physik,
Garching, West Germany

Stephen Rollins - Attended DataPhase Users Group Meeting, Kansas
City; Kurzweil Reading Machine Training, Cambridge, Massachussets;
AMIGOS Workshops, Albuquerque, Santa Fe

Dorothy Trester - Sabbatical leave January 1 - March 31. Travel to
Italy; Egypt; Cancun, Mexico; Tokyo, Kyoto, Sasebo, Hiroshima,
Japan

Dorothy Wonsmos - Travel to Arizona, Louisiana, Mississippi,
Alabama, Georgia, North Carolina, Tennessee, Iowa

James Wright - Sabbatical January 1 - June 30. Travel to Washington,
D.C. and field work on Navajo and Hopi Reservations

3. New Scholastic Honors, Fellowships, etc.

None

4. Publications

Deborah Eagan - Book reviews, "Before Columbus," "The Legend of the
Bellringer of San Agustin, La Levenda del Campenero de San Agustin"
in Libros en Resena desde Nuevo México, Books on Review from
New Mexico

- Mina Jane Grothey - "Panel 5: Public 5: Public Services for Non-traditional clientele," SALALM Newsletter, V.9, No. 1, pp. 13-14 (1981)
- James Jacobs - "Bibliographic Instruction Workshop held in Santa Fe" NMLA Newsletter V.9, No.5 (December, 1981), p.2. (Review of) Public Land Statistics," Reference Services Review V.9, No.4 (October - December, 1981), pp. 82-83 (Review of) Quinquennial Cumulative Personal Author Index, 1971-75 "V.8A. No.3 (1981) pp. 280-281.
- Teresa Marquez - "Developing, Organizing, and Evaluating the Federal Documents Collections: A New Mexico Documents Roundtable Workshop," Documents to the People V.9, No. 4 (July, 1981) pp. 151, 514. "UNM Acquires Two Major Documents Collections," New Mexico Documents Express, V.3, No. 1 (June, 1981), pp. 1, 3. "Federal Statistical Sources on Hispanic Americans," Final Report and Working Papers of the Twenty-fifth Seminar on the Acquisition of Latin American Materials (1981)
- Ernestine Paniagua - "Implication of History, Culture, Language, Lifestyle Similarities and Differences Among Vietnamese, Cambodians, Laotians, and Hmong" "Children of the Boat People," The Journal of the New Mexico Council for the Social Studies, V.XV, No.3 (Fall, 1981) pp.44-57)
- Stephen Rollins - "OCLC/ILL in New Mexico-Some Expectations," "NMLA Newsletter, V.9, No. 1 (March, 1981), p.4. "An alternative for interlibrary Loan," NMLA Newsletter, V.9, No.3 (August, 1981) p.6

Charles Seavey - "Collection Development for Government Map Collections," Government Publications Review, V.8A, No.1, (1981)

5. Other Research Projects or Creative Work in Progress

Judith Bernstein - Journal article in progress, "Online Search Service." Automated Circulation Systems and Online Catalogs, book in progress.

Alice Clark - Book in Press, Managing Curriculum Materials in Academic Libraries, Metuchen, N.J.: Scarecrow Press. UNM Foundation Grant for \$625 for microfilming Ernest Thomas Seton papers. RAC Grant for \$260 for typing book manuscript. Grant from Levi Strauss Corporation for \$9376 for purchase of a Kurzweil Readers for the visually handicapped.

Deborah Eagan - Solicited and received gift of materials for the Anita Osuna Carr Collection from Roundtable III of Pan American Roundtable. Developed brochure for NEA-NM Teachers' Convention (October 21, 1981). Article in progress on the Anita Osuna Carr Bicultural Bilingual Collection.

Mary Ellen Hanson - "Quilting in America," an annotated bibliography on books, articles, exhibition catalogs and other media in progress.

Linda Lewis - Women of New Mexico in progress

Maria Teresa Marquez - "A Selected and Annotated Bibliography of Chicano Materials" - submitted to Atslan "Government Publications in the Map Room" and "Spanish Language Government Publications: An Analysis" in progress.

Ernestine Paniagua - "Women and Aging" "Evaluation of Native American Books for Young People," Evaluation of Spanish American Books for Young People," "Long Term Care".
Annotated bibliography on Asian Americans in progress.

Nancy Pistorius - "Annotated List of Resources," chapter in the Guide to Architectural Slide Collections in press. "Reflections of a Recent Immigrant: Visual Studies of New Mexico Landscape," two dimensional mixed media work in progress.
"Collection Development in the Fine Arts via Approval Plans," to be presented at ARLIS Conference.

Elizabeth Ellen Robertson - "Personnel Management of Online Services," article submitted.

Dorothy Trester - Index for UNM Regents' Policy Manual published Fall, 1981. RAC Grant for \$300 for typing bibliography.

James Wright - NEH Grant for \$50,153. - Documentation of the Navajo-Hopi Indian Relocation Dispute. NEH Supplemental Grant for \$7867. to complete project. "Moving the Navajo" and "Navajo and Hopi Land Dispute" 60 minute radio programs on KUNM-FM, accepted for National Public Radio special broadcast.

6. Activities in Learned and Professional Societies

Judith Bernstein - American Library Association, Circulation Services Evaluation Committee, Evaluation and Measurement of Online Services Committee, and New Mexico representative to LAMA Division. New Mexico Library Association Library Development Committee.

Alice S. Clark - American Library Association member of Governing Council, attended meeting in San Francisco. Mountain Plains Chapter of Music Library Association Nominating Committee, attended meeting in Aspen, Colorado. New Mexico Library Association member of Board, attended meetings in Albuquerque, speaker at College, University and Special Libraries Division Luncheon, Nominating Committee, Ad Hoc Committee on Users' Fees and Assistant to Editor of NMLA Newsletter.

Deborah Eagan - Participated as an instructor during NEA-New Mexico Teachers' Convention in Las Cruces.

Donald Farren - American Library Association ACRL Division-attended preconference "The Collection Builders: Booksellers, Book collectors and Librarians" at San Francisco, attended ACRL Continuing Education Course "The Librarian as Consultant" at San Francisco.

Mina Jane Grothey - Seminar on Acquisitions of Latin American Materials (SALALM), chairperson of Ad Hoc Cooperative OCLC Group, Subcommittee on Cataloging and Bibliographic Technology, planning workshop for SALALM XXVII. American Library Association attended meeting in San Francisco.

Beatrice Hight - New Mexico Library Association-attended meeting in Albuquerque, Secretary of Local History Roundtable. Rio Grande Chapter of Special Libraries Association-archivist.

Bonny Hilditch-Special Libraries Association-chair-elect of Natural Resources Division. Rio Grande Chapter of SLA-Projects chairperson.

- Nancy Carol Hutchins - Geoscience Information-Society Open Files Report Committee, attended annual meeting in Cincinnati. Rio Grande Chapter Special Libraries Association-secretary, networking chairperson. New Mexico Library Association-Publications and Mailing Committee. Attended annual meeting in Albuquerque. American Society for Information Science-attended mid-year meeting at Durango, Colorado.
- Linda Kathryn Lewis - New Mexico Library Association Legislation and Intellectual Freedom Committee Chairperson, NMLA-ALA Federal Relations Coordinator, attended conference in Albuquerque. New Mexico Committee for the Promotion of History.
- Maria Teresa Marquez - New Mexico Library Association Quasi-State Publications Taskforce, New Mexico Library Education Committee, attended Albuquerque Conference. American Library Association-attended conference in San Francisco. Greater Albuquerque Library Association-president. Attended seminar on Disclosure Online Database.
- Ernestine Paniagua - Advisor for DIGITAL, Que Pasa, National Afro American Newsletter. Discussant for National Association of Interdisciplinary Ethnic Studies Conference. Attended NAIES meeting. Attended League of United Latin American Citizens meeting and NMLA meeting. Attended National Association of Negro Business and Professional Women's Club Conference in Albuquerque.

Judy Pence - New Mexico Library Association - Local Arrangements Exhibits Committee

Nancy Pistorius - ARLIS/Arizona-Local Program Coordinator for regional meeting at UNM. ARLIS/NA-attended San Francisco Conference. College Art Association-attended annual meeting in San Francisco. Mid-American College Art Association,-editorial board member, Visual Resource Committee, Editorial board of Visual Resources: An International Journal of Documentation.

Elizabeth Ellen Robertson - New Mexico Library Association - attended annual conference in Albuquerque, member of Executive Board, chairperson of Online Round Table, secretary of Native American Libraries Roundtable.

Stephen Rollins - American Society for Information Science-presented paper at Mid-Year Meeting at Durango, Colorado. New Mexico Library Association-Online Roundtable Nominating Committee, secretary/treasurer of CUS Division, Local Arrangements Committee. Southwestern Library Association-Election Committee.

Charles Seavey - Association of College and Research Libraries (ALA) - presented paper at Minneapolis meeting, "Developing the Academic Library Map Collection." ALA Annual Conference at San Francisco-Map and Geography Roundtable/ACRL Rare Books and Manuscripts session on Mapping the Trans-Mississippi West, "The Wagon Road Surveys," ACRL/CE Program Speaker - "An Introduction to Maps in Libraries," chairperson of Map and Geography Roundtable of ALA.

Zanier Vivian - American Society for Engineering Education, attended meeting at Los Angeles, program chair/chair elect of ASEE Engineering Libraries Division. Attended Board meeting in Arlington, VA. New Mexico Library Association-Exhibits Chairperson

Dorothy Wonsmos - Greater Albuquerque Library Association-member of Nominating Committee, board member. New Mexico Library Association-attended meeting at Albuquerque.

James B. Wright - Mountain/Plains Chapter of Music Library Association-chairperson; attended annual meeting at Aspen, Colorado, co-chairperson for symposium, delivered paper, "Ray Reed, the New Mexico Cowboy," Regional Archiving." New Mexico Library Association-Local Arrangements Committee and Chairperson of Entertainment Committee for annual meeting in Albuquerque.

7. Other Professional Activities

Nancy Ashley - Consultant for UNM Valencia Branch Library, for Superior Oil Company Geological Exploration Library and for Clifton City-Greenlee County Library, Clifton, Arizona.

Deborah Eagan - Greater Albuquerque Library Association - Publicity Committee.

Donald Farren - Presenter at the Southwest Reference and Acquisitions Workshop at the New Mexico State Library, Santa Fe.

Mina Jane Grothey - Indexing journals for Hispanic American Periodicals Index (HAPI) 1980

Bonny Hilditch - North American representative to the Commonwealth Agricultural Bureau

Nancy Carol Hutchins - NMLA/CUS/Online Roundtable program,
"Online Database Searching," panelist.

Judy Pence - New Mexico Library Association-Exhibits Committee
for annual meeting in Albuquerque

Stephen Rollins - Interview on Forum 13 (Jean Wayland Show).
Showcase for Technology Exhibit. Member of two AMIGOS
Task Force groups concerning interlibrary loan code.
New Mexico Library Association-panel member on CUS/SLA/
Online Roundtable Program.

Dorothy Wonsmos - Sang in Faure's "Requiem" and Respighi's
"Land to the Nativity" at St. Paul's Lutheran Church.

James B. Wright - Consultant to Harwood Foundation Library
for collection development in the Fine Arts. UNM lectures:
"Indian Music of the Southwest" and Navajo and Hopi Land
Dispute."

8. Non-teaching University Service

Alice Clark - Volunteer for Student Recruitment Calling Cam-
paign. Committee on the Millionth Volume Celebration.
Committee on Library's part in Showcase for Technology.
Chairperson for Library's part in Legislator's Day.
Library Intern Search Committee.

Deborah Eagan - Volunteer for Student Recruitment Calling
Campaign. Library Professional Development Committee.

Mina Jane Grothey - Library Faculty Council. Spanish Language
Serials Cataloger Search Committee. Latin American In-
stitute Library Subcommittee (Program and Standing Eval-
uation Subcommittees)

- Mary Ellen Hanson - Member at Large of Faculty Senate. Admissions and Records Committee. (Subcommittee on Falsification of University Records). College of Education Learning Materials Library/Laboratory Advisory Committee. Assistant Dean for Collection Development Search Committee, Assistant Dean for Technical Services Search Committee and chairperson of Science Reference Librarian Search Committee.
- Bonny Hilditch - Life Sciences Reference Librarian Search Committee. Professional Enrichment Committee.
- Maria Teresa Marquez - Volunteer for Albuquerque Home Visits. Search Committee for Director of Southwest Hispanic Research Institute (SHR). SHRI Advisory Board.
- Ernestine Paniagua - Chairperson, Library Exhibits Committee. Chairperson Women's Studies Advisory Board. Volunteer School Relations Outreach Program. Judge for National History Week.
- Nancy Pistorius - Library Exhibits Committee. Exhibits Committee on Millionth Volume. Chair of Library Professional Enrichment Committee. Search Committee for Head, Bibliographic Control.
- Stephen Rollins - Senate Long Range Planning Committee. Library's Sabbatical Review Committee.
- Dorothy Trester - Library Professional Enrichment Committee. Undergraduate Academic Affairs Committee. Provost's Committee on Gerontology Development and its Steering Subcommittee.
- Zanier Vivian - Undergraduate Academic Affairs Committee. Committee of Five. Library Promotion Committee. Head of

Reference Search Committee

Dorothy Wonsmos - Library's Research and Publication Committee

James B. Wright - Senate Cultural Enrichment Committee

9. Public Service

Judith Bernstein - Bnai Brith Women - Vice President for Administration. Treasurer of New Mexico Cactus and Succulent Society.

Alice Clark - Invited participant in meeting of heads of the the State Curriculum Evaluation Centers.

Deborah Eagan - Active in First Methodist Church and Pan American Roundtable III

Donald Farren - Co-vice president of Alameda Soccer Club

Beatrice Hight - Kady Memorial Library reclassification project at St. John's Episcopal Cathedral

Teresa Marquez - Participant in slide-show production on mentoring for National Conference in Adult Education.

Nancy Pistorius - Ocha Cooperative State Fair Booth volunteer. NMLA State Fair Booth volunteer. Showcase for Technology Booth volunteer.

Maria Theresa Marquez - Friends of UNM Libraries Book Sale volunteer

Ernestine Paniagua - Book talks for Senior Citizens at Nursing Homes. Editor for Newsletter of Senior Coalition. Special library service to Albuquerque High School students. Workshop leader at 1981 National Women's Political Caucus. Speaker at Cultural Week at Albuquerque High School. National Women's Political Caucus Conference.

Nancy J. Pistorius - Block organizer for Neighborhoods Organized Against Crime Program. Costume construction for Classics Theatre production of Hamlet.

Dorothy Webb Trester - Albuquerque Sister Cities Association Board member, editor of newsletter, delegate on ASCA trip to Sasebo, Japan. Active in Albuquerque Press Club, Pan American Roundtable III and Unitarian Church committees.

Zanier Vivian - Albuquerque Opera Guild and Albuquerque Symphony Women's Association

Dorothy Wonsmos - Member St. Paul Lutheran Church, Church Women and Senior Choir.

The Report of the Technical Services Division
General Library
July 1, 1981 - June 30, 1982
Robert L. Migneault, Assistant Dean

RLM

Preface

To appreciate fully the developments in the Technical Services Division one should keep in mind that the Division is undergoing an administrative and operational review. To some extent the Division is undergoing a period of adjustment and experiencing, in effect, the beginnings of a transformation. That is to say, a new Assistant Dean for Technical Services was appointed in January 1982. With such an appointment changes normally follow.

Technical Services activities and developments are and will continue to be based on an a priori tenet that may best be described in the words of Paul Wasserman:

In every professional field, the future must rest upon balancing the organizational stability with the capacity to adapt and respond to a changing technological and political reality -- business as usual plus innovation.

Business as usual for Technical Services means continually providing quality and essential support services. Innovation, i.e., progress, should be interpreted to mean an increase in production while maintaining acceptable levels of quality. The founding principle upon which Technical Services activities are based, rationalized, and sanctioned is the principle that it matters much for Technical Services personnel to develop and maintain the highest levels possible of organizational and operational effectiveness and efficiency.

Basic to the implementation of divisional policies is the understanding that progress is a discernible goal. The responsibility for orchestrating progress lies with each and every library employee. The Assistant Dean for

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Technical Services is fully responsible for the overall policies and practices in the Division. Responsibility regarding work accomplished in each of the Technical Services Departments rest primarily with the Heads of the Departments. Because Technical Services is developed and shaped at all levels throughout its organization, virtually by all of its employees, accountability with respect to fulfilling responsibilities, carrying out duties satisfactorily, the common good, as it were, rests with everyone in the Division.

Given humane consideration for the welfare of all employees, divisional policy calls for all supervisors to regard their prime allegiance to be to tasks and results. Administrative policy mandates the obligation to preserve the operating functions of Technical Services for the benefit of those presently here and, as well, to the benefit of those to follow. Perhaps the most significant operating guideline has been, and will continue to be, the most good, for the most people, most of the time.

I. General Departmental Information

A. Significant achievements during the academic year.

1. Business as usual. Well-earned recognition is due to Technical Services faculty and staff for commendable performances, dedicated service, and achievements of no small consequences, sustained, day in and day out throughout this reporting period. Not necessarily in the order of importance, examples of some of the accomplishments are outlined herein. By no means do they represent an inclusive inventory.
2. Stabilization and renewed optimism. Several vacant key positions were filled, including Assistant Dean for Technical Services and Head of Bibliographic Control. Consequently, the Division and its Departments saw an end to part-time leadership. The Department Heads and the Assistant Dean, as the Technical Services Coordinating Group, administered the affairs of the Division. Department Heads have reported that the filling of the vacancies, combined with the managerial team approach as exemplified by the Technical Services Coordinating Group, has had a positive stabilizing effect throughout the Division. The result has been renewed optimism with respect to individual and collective capabilities, and a general upswing in morale. Ramifications include high production rates and yields of quality products.
3. Coordination and communication. The Head of Bibliographic Control recently pointed out that in the 1974-75 Annual Report of the General Library the consulting team of Ross and Horny were noted for stating in their final report that "... the proper impetus for better coordination and communication has

been lacking. Divisional leadership should be fostering stronger interdepartmental relationships and shifting assignments to maximize contribution to the entire process." With the arrival of the new Assistant Dean came the idea of "OBD", i.e., "One Big Department." Manifestations of this concept include the Technical Services Coordinating Group, the formation of the Supervisors Group (all supervisors from all of the departments in Technical Services meet once a month, or more frequently as needed, with the Technical Services Department Heads and the Assistant Dean, to discuss concerns of mutual interest, coordinate activities, facilitate communication, etc.), and the creation of two "floating" positions.

4. Retooling for AACR 2, coping with OCLC failures.

The introduction and adoption of the new cataloging rules (AACR 2) in 1981 effected adversely (for obvious reasons) cataloging production -- most conspicuously through the remainder of the year. The Library's dependency on the OCLC computerized cataloging services proved to be somewhat detrimental. OCLC, Inc. actuated an inordinate amount of downtime, primarily because it relocated personnel and equipment. The effect of the move is still being felt -- evidenced by the slow system response time. The Head of Bibliographic Control was correct when he opined that "The staff of the Bibliographic Control Department deserves praise for getting as much done as it did during this period of intense frustration ..." It is very encouraging to note the progress that has been made in the face of outright adversity. From a low of 1,866 catalog records produced in July 1981, production increased steadily to the highs of 3,398;

3,391; 3,355; in April, May, and June 1982, respectively. The rising trend should continue well into the future. Serials Cataloging faced similar difficulties and fared commendably.

5. University and community service, contributions to the library profession, etc. Because of the time consuming demands of "business as usual" in a research and academic library, special mention must be made of the extraordinary contributions by library faculty. These are summarized elsewhere in this report.
6. Good personnel appointments. Several very good personnel appointments were made during this reporting period, adding greatly to the strength of the personnel already in the Division. These appointments are listed elsewhere in this report.
7. Gearing up for DATAPHASE, Retroconversion Project. Personnel and operations throughout Technical Services have prepared themselves and geared up for DATAPHASE. For example, a new and special team to convert non-machine readable bibliographic records (catalog cards) into machine readable form was formed in November 1981. Presently, the team (in Bibliographic Control) is composed of an LTA III team leader plus four additional FTEs (eight people). Thus far the Team has completed over 17,000 updates. In May the Team completed over 4,000 updates. This was a milestone, because it indicated that the estimated monthly production figure of 4,000 needed to keep up with the anticipated DATAPHASE circulation demands can be met.
8. Reconciliation project. There were two major accomplishments. First: the completion of a three year effort to process serial reconciliation forms for some 8,000 active titles. Second: the completion of the CSO portion of the Project.

9. Gifts to and processed by the Library reached an all time high. Receiving personnel handled almost 6,000 pieces (or gifts) more during 1981/82 than they did in 1980/81. The Head of Acquisitions reported the following:

The Gifts portion of the Receiving/Gifts section saw an enormous increase in the number of gifts received and somehow managed to keep track of all of them. The section received 78,654 items, an increase of 34.5% over the 1980/81 fiscal year. The number of donors was up from 2,112 to 3,069, an increase of 31%. These sizeable increases are due, in part, to the concentrated efforts of the Friends to solicit gifts for the annual booksale that took place in October, 1981. However, not all of the increase can be so easily accounted for; no doubt much of the increase is due to more people's knowing about the gifts section in the library and the concerted efforts of the staff to please donors.

The searching backlog for gifts had risen to such proportions before the booksale that a project involving the entire department was undertaken. In September, a total 3,324 gifts were searched, and 73% of this material was added to the collection, either as new titles or as added copies. In all, 10,319 gift books were searched during the year. Of these, 7,355 were added to the collection, 70% as new titles and 30% as added copies. The usefulness of gifts to the library's collection is obvious. Some of the other work of the gifts staff included sending materials not needed to some 67 different institutions, developing a gifts worksheet which has improved record keeping enormously, and beginning the sending of materials to the University of Albuquerque in compliance with the agreement reached by Presidents Davis and Welch for the transfer of the Dennis Chavez papers to the University of New Mexico General Library.

Significant gifts for the year were numerous. Included in these are the following: Professor Pao L. Cheng, 647 items on business and economics; Gary Kramer, 689 items on chemical engineering and water resources; Jere Millard, 919 items on English fiction and literature; United Campus Ministries, 500 items on religion and philosophy; Mrs. Robert Creveling, 3,319 serials in science and engineering; Yolanda Jones, 3,604 items on various topics, especially plant life; Glen Miller, 1,183 serials; former President of the University of New Mexico,

Dr. Ferrel Heady, 951 serials and books; James H. Foley, 817 items on architecture from the estate of Louis G. Hesselden; Clark Field Library of Anthropology, 1,217 items; Mr. and Mrs. Charles Brown, 7,957 items. We are receiving regular weekly shipments from the Bookstop, a local bookstore; much of this material goes to the booksale. There were many other gifts, large in both quality and quantity, too numerous to mention.

The number of gifts received for review by the subject selectors appears in the following list:

Cumulative total of gifts for the fiscal year 1981/82 -

30,692	books
38,436	serials
2,078	government documents
1,026	music scores
962	reports
3,578	pamphlets
402	catalogues
482	audio-visual materials
<u>998</u>	miscellaneous items
78,654	total number of items
3,069	total number of donors

10. Serials cataloging. The serials cataloging team was extremely busy keeping up with enormous amounts of work, learning about AACR 2, and authority control. Among many accomplishments the Head of Serials noted that, "At the beginning of 1982 the team added to their regular work flow the recataloging and entry in OCLC of currently received circulating periodical titles. Re-classification of Dewey titles (were) also involved With the implementation of the DataPhase circulation system imminent, it is extremely important to have as many serials records in machine readable form as possible. Two DataPhase terminals were installed in the Serials Department to be used for item conversion of serials volumes"
11. Procurements. People responsible for acquiring library materials,

monographs, serials, etc., were swamped; yet, they managed to get the necessary work done -- in spite of tremendous turnover in staff, BATAB fubars, ebb and flow of orders, and the like. Acquisitions reported that 8,000 more orders than in the previous fiscal year were sent out and received -- with the same number of employees. The Serials Acquisitions section was especially hard hit by staff turnover -- 100 percent. Serials reported that in spite of the set back the new staff rallied with commendable stick-to-it-ive-ness, evidenced as of this writing, by the complete payment of the Faxon annual invoice for 1983 renewals. Never has the invoice been processed and paid so efficiently and quickly.

12. Ibero acquisitions. Ibero acquisitions work was formally moved from Bibliographic Control to the Acquisitions Department. Gift and exchange arrangements between UNMGL and various Latin American countries were greatly expanded. Grant money for purchases was received from LAPE and LAI. The LBO plan with Spain became more of an approval plan.
13. NEH Mexicana guide program. The Head of Acquisitions reported in her recent annual report that, "An adjunct of the department's activities was the NEH Mexicana Guide Program. The National Endowment for the Humanities funded a proposal to have the Mexican collection, and particularly the Van de Velde collection, examined and guide to the collections prepared. A librarian/archivist and a staff member were hired, and their primary work for the year was checking many bibliographies and their primary work for the year was checking many bibliographies

and gathering together the materials found. The grant will extend another year, and at the end of that time, a guide to the collections will be published.

14. Book sale. The Friends' Book Sale took place in October 1981. Prior to the sale an excess of 10,000 gift books were searched, the aim being to determine which should be added to the Library's collection(s), offered for sale, etc. The sale was a great success, the net sales reaching \$7,600.
15. Refiling the author/title catalog and Tireman catalog. Refiling the Library's catalog (in Zimmerman) to coincide with the new (1980) ALA filing rules was completed in August 1982. Refiling the Tireman Learning Materials Library catalog was completed in January 1982.
16. Serials fiche. Overhauling the serials title list on microfiche was completed in November. The project included format changes, sorting (filing) improvement, and expanded field lengths. The new filing sort conforms to the new (1980) ALA filing rules.
17. Space utilization. Each department in Technical Services began to physically reorganize. Major changes have been planned for Acquisitions, and Bibliographic Control. Plans have taken into consideration workflow, preparing for the adoption of DataPhase circulation, and shifting assignments, i.e., the need to increase flexibility in the utilization of personnel.
18. Serials exchange. More attention was given to the serials exchange program than in previous years, the result of which has been an addition of fifty-two new exchange titles to the UNMGL collections. UNMGL offered two new exchange titles: Latin American Institute Research Papers series and a new series

published by the Biology department.

19. UNM Regents' meetings minutes. A four year backlog was micro-filmed for Special Collections. Procedures were set up with the University Secretary's Office to insure timely microfilming in the future.
 20. Commerical binding services. The Library's binding contract was awarded to the Esperanza Bookbinding Company. Switching from the previous binder to Esperanza entailed several difficulties and delays. We are now back on track, in production mode.
 21. Acknowledgments. As a personal note, I wish to make it known that I depend on a number of people to accomplish my day-to-day activities. I express my indebtedness to them. I wish to express my appreciation to my associates in the Library Executive for their frequent guidance, patience, and understanding. It is an understatement to say that the Technical Services Department Heads have been very helpful, supportive, and cooperative. Progress would have been impossible without them. I wish to express a special note of thanks to the Library faculty and staff, especially to all in Technical Services, for having made my working environs and UNM activities more than interesting and very rewarding. Lastly, but certainly not least, I wish to express my appreciation to the administrative personnel for having given me unfailing support and assistance.
- B. Significant plans and recommendations for the future.
- At best, Technical Services goals and objectives grow out of a knowledge of what its business is and what it should be. The administering of Technical Services will be based on a number of basic assumptions:

- a) Technical Services is a non-profit service-oriented activity; however, its services should be efficient and effective.
- b) Technical Services must actively support Readers' Services, Collection Development, and respond productively to Library user needs.
- c) Technical Services policies and procedures shall be in accordance with and supportive of the overall goals and objectives of the University and Library.
- d) The core of Technical Services excellence is its organization and personnel, i.e., a well orchestrated infrastructure.
- e) The infrastructure may best be determined largely by identifying responsibilities for contributions.
- f) Responsibility for contributions exists at all levels of Technical Services.
- g) Division activities are governed by University rules and regulations and they (activities) are subject to budgetary limitations and constraints.

It goes without saying Technical Services anticipates a busy year ahead, new challenges, in short, "business as usual, plus innovation." Not necessarily in the order of importance, examples of divisional objectives, or planned projects, are listed below:

1. Complete the physical reorganization.
2. Continue, modify, or introduce new staff training programs, with respect to library automation, improving supervisory skills, and on the job in general.
3. Retroconversion of non-machine readable bibliographic records to machine readable form.
4. Item conversion for DataPhase circulation.

5. Recataloging of library materials that are subject classified according to a scheme other than the Library of Congress' to LC.
 6. Increase the time available on OCLC.
 7. Increase cataloging production.
 8. Explore possibilities with respect to implementing on-line automated acquisitions and serials systems.
 9. Restate, clarify, and define priorities.
 10. Codify policies and procedures.
 11. Examine and improve the security in Technical Services.
 12. Reduce arrearages.
 13. Establish formal and regular fora for meeting with Readers' Services and Collection Development.
 14. Review practices and procedures relevant to statistics. Revise as necessary.
 15. Redefine or establish supervisory and performance standards.
 16. Conduct an "open house."
 17. Investigate the possibility of creating a non-Technical Services "reviewing" or "inspection" team to "review" Technical Services.
 18. Reduce absenteeism.
 19. Develop programs to support the new General College.
 20. Cooperative cataloging, re. ARL Microforms Project.
-

A leader is best
 When people hardly know he exists.
 Not so good when people obey and acclaim him
 Worse when they despise him ...
 But of a good leader, who talks little
 When his work is done, his aim fulfilled,
 They will say, "We did this ourselves."

C. Appointments to staff.

Russ Davidson	Transferred from Ibero Cataloging to Acquisitions, Assistant Professor	July 1
Connie Thorson	Returned to Acquisitions from Acting Appointment, Assistant Professor	July 1
Margaret Vigil	CS IV, Permanent Full-time Serials	July 3
Joanne Franks -	CS II, permanent part-time, Acquisitions	July 20
Ted Greer	CS IV, Permanent Full-time Serials	August 3
Chris Sugnet	Assistant Head Bibliographic Control	August 17
Jeannie Horn	LTA II Serials	August 18
Agnes Herrera	CS IV, Permanent Full-time Serials	August 24
Farrel Brody	Librarian/Archivist, NEH Project Acquisitions	September 1
Abdul Koshan	CS II Bibliographic Control	September 14
Angela Pabisch	CS IV, Permanent Full-time Serials	September 14

Martha Chavez	CS IV, (one-year appointment) Serials	September 21
Marguerite Lauver	LTA III, Permanent Full-time Serials	September 21
Agnes Herrera	CS V, Permanent Full-time Serials	September 28
Jeannie Horn	LTA II, Permanent Full-time Bibliographic Control	September 28
Sallie Riley	CS II, Permanent Part-time File Maintenance Bibliographic Control	October 12
Catherine Scheiman	CS IV, Permanent Full-time Serials	November 2
Luz VanCoevering	CS IV, Permanent Part-time, NEH Project Acquisitions	November 2
Carol Simmons	LTA II, Permanent Part-time Bibliographic Control	November 16
Marcella Aguilar	CS IV, Permanent Part-time Bibliographic Control	November 23
Susan Minser	CS IV, Permanent Part-time Bibliographic Control	November 23
Donald Johnson	LTA II, Permanent Full-time Bibliographic Control	November 30
Nirmala Reddy	CS II, Permanent Part-time Bibliographic Control	November 30
Ann Martin	LTA I, Permanent Part-time, Searching, from LTA I Permanent Full-time Acquisitions	December 6
Abdul Koshan	CS I, Permanent Part-time Bibliographic Control	December 14
James Brown	CS V, Temporary Full-time Serials	December 14
Robert Migneault	Assistant Dean Technical Services	January 1
Theresa Lopez	LTA I, Permanent Part-time Serials	January 4

Marcella Thomas	LTA I, Permanent Full-time, Searching, from CS IV Permanent Full-time Acquisitions	January 4
Patrick Dawson	CS IV, Permanent Full-time, Gifts and Searching $\frac{1}{2}$ time Bibliographic Control $\frac{1}{2}$ time Acquisitions	January 4
Patrick Dawson	CS IV, Permanent Full-time Bibliographic Control $\frac{1}{2}$ time Acquisitions $\frac{1}{2}$ time	January 4
Mary Margaret Vigil.	LTA II, Permanent Full-time Bibliographic Control	January 4
Margaret Emmons	CS IV, Permanent Full-time	January 25
Abdul Koshan	CS II, Permanent Part-time Bibliographic Control	February 8
Jimmy Diecker	CS II, Permanent Part-time Bibliographic Control	February 15
Audrey Palmer	CS IV, Permanent Full-time Serials	February 15
John Ebert	CS IV, Permanent Full-time Serials	March 3
Julie Urban	CS IV, Permanent Part-time NEH Project Acquisitions	March 8
Fran Wilkinson	CS IV, Permanent Full-time Serials	March 15
Sue Butcher	LTA II, Permanent Full-time Bibliographic Control	March 22
Tawfik Alkoudairy	CS II, Permanent Part-time Bibliographic Control	March 22
Sallie Riley	CS II, Permanent Part-time Bibliographic Control	March 22
Carol Joiner	LTA I, Permanent Part-time Serials	March 29
Joanne Franks	CS IV, Permanent Full-time, Receiving, from CS II, Permanent Part-time Acquisitions	April 12

Vicki McKee	CS IV, Permanent Part-time Serials	April 12
Catherine Scheiman	CS V, Permanent Full-time Serials	April 12
Kathleen Ferris	CS IV, Permanent Full-time Serials	April 19
Susan Small	LTA I, Permanent Full-time Acquisitions	April 19
Robin Hart	CS II, Permanent Part-time Bibliographic Control	May 10
Anna McLain	CS II, Permanent Full-time Acquisitions	May 17
Maria Codding	CS IV, Permanent Full-time Serials	May 17
Brenda Urquidez	CS II, Temporary Part-time Serials (occasional)	May 26
Carol Simmons	LTA II, Permanent Part-time Serials	June 28
<u>D. Separations from staff</u>		
James Brown	CS IV, Permanent Full-time Serials	July 3
Margaret Vigil	CS IV, Permanent Full-time transferred to Serials Acquisitions	July 7
Barbara Gienger	LTA II, (one-year appointment) Serials	July 31
Melissa Origlio	CS IV, Permanent Full-time Serials	July 31
Susan Kreiner	LTA III, Permanent Full-time Serials	August 21
Janice Garcia	LTA II, Permanent Full-time Bibliographic Control	September 8
Don Wood	LTA III, Permanent Full-time Bibliographic Control	September 18
Jeannie Horn	LTA II, (one-year appointment)	September 28

Stella Torres	LTA II, Permanent Full-time File Maintenance transferred to Reference Bibliographic Control	October 20
Kimberly Valdez	CS II, Permanent Part-time Catalog Records Bibliographic Control	November 6
Carol Simmons	LTA I, Permanent Part-time Serials	November 11
Luz VanCoevering	LTA II, Permanent Part-time Ibero Bibliographic Control	November 30
Ann Martin	LTA I, Permanent Full-time to LTA I, Permanent Part- time, Searching Acquisitions	December 4
Abdul Koshan	CS II, Occasional Full-time Catalog Records transferred to CS I Permanent Part-time Catalog Records Bibliographic Control	December 11
Marcella Thomas	CS IV, Permanent Full-time to LTA I, Permanent Full-time Searching Acquisitions	December 20
Margaret Vigil	CS IV, Permanent Full-time Serials	December 30
Patricia Seavey	LTA I, Permanent Part-time Serials	December 30
Angela Pabisch	CS IV, Permanent Full-time Serials	January 21
Mechele Palmer	LTA II, Permanent Full-time Fine Arts Bibliographic Control	January 25
Luz VanCoevering	CS IV, Permanent Part-time Acquisitions	February 2
Audrey Palmer	CS IV, Permanent Full-time Acquisitions	February 15
Ted Greer	CS IV, Permanent Full-time Serials	February 18

Jeanette Ortiz	CS V, Permanent Full-time Serials	March 5
John Ebert	CS IV, Permanent Full-time Serials	March 19
Sue Butcher	LTA I, Permanent Full-time Acquisitions	March 19
James Brown	CS V, Temporary Full-time Serials	April 2
Joanne Franks	CS II, Permanent Part-time to CS IV, Permanent Full-time Receiving Acquisitions	April 9
Joanne Franks	CS II, Permanent Part-time File Maintenance transferred to Acquisitions Bibliographic Control	April 12
Sue Butcher	LTA II, Permanent Full-time Bibliographic Control	May 31
Carol Simmons	LTA II, Permanent Part-time Bibliographic Control	June 1
Patricia Seavey	LTA II, Permanent Part-time Serials	June 4
Brenda Urquidez	CS II, Temporary Part-time Occasional Serials	June 30

II. Composite of Information Requested on Individual Biographical Supplement

1. Advance study

- a) Davidson - A.A/RTSD Collection Management and Development
Institute, Stanford University, July 6-10, 1982.
- b) Fletcher - Completed English 500 (Introduction to the Pro-
fessional Study of English)
- c) Moynahan - Math 120, prerequisite for computer science

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel,
etc., during the period

- a) Davidson - Field research carried out in Quito, Ecuador;
May 13 - June 13, 1981.
Library acquisitions trip, Bogota, Columbia; June 14 - June 18,
1981.
 - b) Homestead - Sabbatical, July 1 - Dec. 31, 1982, during which
wrote Haiku poetry and conducted research on Haiku aesthetics.
 - c) Moynahan - One day visit to LIBRUNAM, on-line system at the
Library, Universidad Nacional Autonoma de Mexico, as part of
the UNM?UNAM convenio, and a two day semi-official visit to
Universidad Autonoma de Guadalajara Libraries.
 - d) Sugnet - One day visit to Bibliotheque nationale, Paris, June,
1981 to see the Vietnam collection.
 - e) Yen - Travel to Atlanta and Chattanooga, Tennessee.
 - f) Weber - Traveled to Cuernavaca, Mexico to co-teach workshop at
Instituto de Investigaciones Electricas, November 23 - 27.
Visited libraries of University of Oregon, University of
Washington, University of British Columbia, July.
3. New scholastic honors, fellowships, etc.
- a) Davidson - Research Allocations Committee grant (with C. Thorson
and M. Trumpeter); awarded for research on faculty status for
librarians (their individual perspectives) in the Rocky Mountain
Region.
Research Allocations Committee grant; awarded February, 1981,
for research in Quito, Ecuador.
Tinker Foundation Summer Research Grant, 1981.

b) Thorson - Research Allocations Committee grant (with R. Davidson and M. Trumpeter); awarded for research on faculty status for librarians (their individual perspectives) in the Rocky Mountain Region.

Research Allocations Committee grant (with J. Thorson); awarded for research on Philip Stevenson, July 1981.

4. Publications

a) Davidson - "Federico Gonzalez Suarez: Portrait of a Humanist in Nineteenth-Century Ecuador," LAI Bulletin, I, No. 2 (Dec., 1981), 3 - 4.

"Faculty Status for Librarians in the Rocky Mountain Region: A Review and Analysis," College and Research Libraries, 42, No. 3 (May, 1981), 203 - 13.

Contributor, Portuguese and Brazilian Languages Section, MLA International Bibliography, Vol. II (1980), 183 - 194.

Reviews on Ann Hartness Graham and Richard Woods, Latin American in English-Language Reference Books: A Select and Annotated Bibliography (Scarecrow, 1981) and Friedrich Katz, The Secret War in Mexico: Europe, the United States and the Mexican Revolution, in Library Journal (issues of June 15 and October 1, 1981, respectively).

b) Fletcher - Science Fiction Story Index 1950 - 1979
Chicago, American Library Association, 1981, 610 p.

c) Foster - "Delegation: The Key to Successful Leadership,"
Counselor, V. 41, No. 1 (Jan. 1981), 2.

"Values Clarification," Youth Leader, V. 34, No. 4 (April 1981)
3 - 4.

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- c) Foster - "Delegation: The Key to Successful Leadership," Counselor, V. 41, No. 1 (Jan. 1981), 2.
"Values Clarification," Youth Leader, V. 34, No. 4 (April 1981)
3 - 4.

"Whatsa Tapa?" Singles Scene, v. 3, No. 1 (Sept. 1981), 14.

"Monday Morning Butterflies," Instrumentalist, v. 36, No. 3
(Oct. 1981) 100 - 101.

"The Drill Method," The Edge, Dec. - Feb., 1981 - 82, 19.

- d) Homestead - 21 Haiku poems: Modern Haiku, v. XII, No. 1
(Winter-Spring 1981): Coal miner's woman (p. 7), Hot Tenement
Roof (p. 29); v. XII, No. 2 (Summer 1981): Chestnut Blossoms
(p. 14), Cafe in Paris (p. 21), Starlit Night/The Sound of a
Sweet Trombone/Cooling the Summer Air (p. 60), Starlit night/
Among the Reeds Below the Bridge/The Play of Catfish (p. 61);
v. XII, No. 3 (Autumn 1981): That Same Thorny Weed; The Colonel's
Coffin; From the Warm Kitchen; Cicada, v. 5, No. 1 (1981): On
This Silent Night; Reflected; Beneath the Willow; A Piece of
Yarn; Dragonfly, v. 9, No. 1 (Jan. 1981) 38: Concert in the
Park; Summer Thunderstorm; Muggy New York Day; v. 9, No. 2
(April 1981) The Rain Stops; Shost Town in Nevada; Street in
Hither Green (p. 17); Oxygen Tent (p. 43)
- e) Moynahan - "Library Science to Latin American Educators" paper
presented at SALALM XXVII, to be published in the Final Report
and Working Papers.
- f) Migneault - Book reviews in Choice: The Hunt; Game Mammals and
Birds in North America
- g) Stine - "Staffing Patterns in Serials Departments of Medium -
Sized Research Libraries," Serials Review. 7:3, pp. 83 - 87
Reports of: "Keynote Address" and "Technological Trends in the
1980's Plenary Session I. "Seminar on the Acquisition of Latin
American Library Materials. Final report and working papers,
1980, p. 19 - 22.

5. Other research projects or creative work in progress or completed during the period.

- a) Davidson - "Faculty Status in the Rocky Mountain Region: The Librarians' Perspective." article in progress. RAC grant support. Co-authored with Connie Thorson and Diane Stine. "Federico Gonzalez Suarez: A Bio-Bibliographical Essay." submitted for consideration.

Contributor to Indexed Journals: A Selection of Latin American Serials, Ed. Paula A. Covington. (Bibliography Series, 7)

Seminar on the Acquisition of Latin American Library Materials (forthcoming).

Project Director, "Mexicana in the University of New Mexico Libraries: An Annotated Guide to Holdings."

Funded by the National Endowment for the Humanities, (\$48,000), for period 6/81 - 7/83.

- b) Fletcher - "Science Fiction Magazines: Annotated Checklist." Accepted for publication in the Serials Librarian. 7:1
- c) Foster - Began researching and writing 2nd. edition of Managing the Catalog Department, to be completed during Spring, 1981 Sabbatical.
- d) Homestead - As a result of Sabbatical plans to have a book of Haiku poetry published (that will include previously published Haiku) sometime in Late 1982.
- e) Stine - "Performance evaluations and termination of employees;" Research release time at the University of New Mexico Library." Submitted for publication. Works in progress: "Staffing of Administrative Service Offices in Libraries." "A Librarian's

Guide to Educational and Job Opportunities in Foreign Countries." Contributing Author, Modern Encyclopedia of Russian and Slavic Literatures.

- f) Sugnet - Director of a project that will publish an annotated bibliography of the Cornell University holdings on the Vietnam War (Ford Foundation, \$11,000, Vietnam War/Cornell Bibliography Project, July 1981 - Jan. 1983)
- g) Thorson - "Gomorra on the Puerco: A Critical Study of Philip Stevenson's Proletarian Epic, The Seed. Co-authored with J. Thorson. In New Mexico Labor History, ed. Robert Kern. (forthcoming from UNM Press, late 1982/early 1983) "Smollett and Humphry Clinker: A Bibliographical Essay." In the Norton Critical Edition of The Expedition of Humphry Clinker, ed. J. Thorson. (forthcoming, winter 1983) "Faculty Status in the Rocky Mountain Region: The Librarians' Perspective." Co-authored with Russ Davidson and Diane Stine. article in progress. RAC Grant support. "Philip Stevenson and the Camera's Eye." research in progress. RAC Grant with J. Thorson. "By the Cut of His Cloth: The Function of Clothing in Humphry Clinker." second draft in progress. "Fielding's Narrator." first draft being revised.
- h) Weber - "Year's Work in Serials: 1981." Invitational article for Library Resources and Technical Services, July/September 1982, in progress. Chapter on serials administration for book on serials management, Pierian Press, in progress.
- i) Yen - Two bibliographies are under preparation: 1. OCLC: a Bibliography, 2. A Bibliography of Native American Indian Language Materials at the University of New Mexico General Library.

6. Activities in learned and professional societies

- a) Bensingher - New Mexico Library Association annual meeting, Spring, 1981. Greater Albuquerque Library Association meeting, Fall, 1981. AMIGOS workshop on Name Authority Control, October, 1981.
- b) Davidson - Seminar on the Acquisitions of Latin American Library Materials, 26th. Annual Conference, New Orleans, March, 1981. Bibliography Committee, Bookdealer/Publisher/Librarian Relations Committee, Modified Farmington - Type Plan Committee. New Mexico Consortium for Latin American Studies, 4th. Semi-Annual Conference, December 4 - 5, 1981, Albuquerque, N.M. Chair, CARLA Ad Hoc Committee for Cooperative Acquisition of Northern Mexican Materials, May, 1981 --
- c) Fletcher - Attended NMLA Conference, April, and served on registration desk. Member, NMLA General Publicity Committee (1981-84); served as volunteer at the NMLA State Fair Library Booth.
- d) Migneault - Chair, American Library Association, LAMA, PAS Union Relations for Managers Committee
Member, ALA, LAMA, PAS Executive Committee
- e) Moynahan - Seminar on the Acquisition of Latin American Library Materials, chair of the Committee on Library Operations and Services. New Mexico Library Association, Publications and Mailing Committee. American Library Association.
- f) Stine - Attended American Library Association (ALA) Conference, June
- Attended New Mexico Library Association (NMLA) Conference, Apr

- Elected Vice-chair/chair/elect ALA/RTSD Serials Section
Medium-sized Research Libraries Discussion Group.
 - Member, NMLA Publications and Mailing Committee
 - g) Sugnet - Association of Asian Studies, Vietnam Studies Group.
American Library Association.
New Mexico Library Association, Publications and Mailing
Committee.
 - h) Thorson - "Gomorraah on the Puerco: Philip Stevenson's Rendering
of the Gallup Strikes in The Seed." Presented at the Southwest
Labor Studies Conference, Albuquerque, New Mexico, May 2, 1981.
"Education for Collection Development." Presented at the RTSD
Education Committee's Seminar at the American Library Associa-
tion's annual conference, San Francisco, June 19, 1981.
 - i) Verstynen - American Library Association, Association of College
and Research Libraries, Resources and Technical Services Division.
New Mexico Library Association annual meeting, Spring, 1981.
 - j) Weber - Attended ALA Conference, January and June
 - Attended NMLA Conference, April
 - Continued in 4-year term, Councilor-at large, ALA
 - Member, ALA RTSD Education Committee
 - State coordinator (Local Arrangements) for NMLA 1981 Conference
 - Member, NMLA Legislation and Intellectual Freedom Committee
 - Chair, Serials Review - Editorial Board
 - k) Yen - New Mexico Library Association annual meeting, Spring, 1981.
7. Other professional activities
- a) Davidson - Manuscript reviewer for University of Mississippi
Press and for the Latin American Research Review.

- b) Stine - Cataloging consultant to Temple Albert Library
- c) Sugnet - Member of Advisory Group to the Vietnam War Veterans Archives Project at Cornell University.

Demonstrated Kurzweil Reading Machine at UNM Library booth at the Showcase for Technology, Albuquerque, Oct. 30, 1981.

Host/coordinator for AMIGOS workshop on name authority at UNM, October 21, 1981.

Management Effectiveness Workshop, UNM Management Development and Training Program, attended November 12 - 13, 1981.

- d) Verstynen - AMIGOS Name Authority Workshop, October 21, 1981.
Roundtable on New Mexico State Documents, April 3, 1981, did presentation on cataloging.

UNM Personnel Evaluation Workshop, November 10, 1981.

- e) Yen - AMIGOS Name Authority Workshop, October 21, 1981.

8. Non-teaching university service

- a) Bensinger - UNM Press Committee, 1980/81.
- b) Davidson - Project Consultant, Latin American Labor Bibliography - funded by UNM Foundation (\$1,800), coordinated by Latin American Institute.

Advisory Committee, "Colonialism and Its Legacy,"

Undergraduate International Studies and Foreign Language Program, 2-year interdisciplinary program funded by DOE and administered by Latin American Institute.

Faculty Senate Graduate Committee

Co-production of monthly acquisitions newsletter (LAI Notes, Supplement), distributed across campus.

Budget Sub-committee, LAI

Library Sub-committee, LAI

- c) Fletcher -- Chair, Library Exhibits Committee
 - Chair, Search Committee for Spanish Language/Serials Cataloger
 - Member, Search Committee for Head of Reference
 - Secretary, Library Faculty Council
- d) Foster - General Library Promotion Committee.
 Taught "Introduction to Library Science" (LS 424C) and
 "Classification and Cataloging" (LS 427C) in UNM Division of
 Continuing Education.
- e) Homestead - Community Education Committee.
- f) Migneault - Member: Search Committee for Personnel Librarian
- g) Moynahan - Secretary, Library Faculty Council.
 Chair, Search Committee, Serial Acquisitions Librarian.
 Search Committee, Head of Bibliographic Control Department.
- h) Stine - Member, Assistant Dean for Technical Services Search
 Committee
 - Chair and member, Research and Publications Committee
 - Member, Library Exhibits Committee
 - Member, Library Faculty Council
 - Member, Russian Studies Committee
- i) Sugnet - General Library Research and Publications Committee.
- j) Thorson - UNM Faculty Senate - Vice President, member Operations
 Committee, member Senate, Chair, Senate Task Force on Committees.
 UNM Faculty Club Board, member
 Library Assistant Dean for Technical Services Search Committee,
 Chair
- k) Verstynen - Scholarships, Prizes, and Loans Committee, 1980/81.
- l) Weber - Chair, Search Committee for Head of Bibliographic Control

- Chair, Search Committee for Assistant Head of Bibliographic Control
 - Elected member of Faculty Senate
 - Member, Research Allocations Committee
 - Member, Research and Publications Committee
 - Member, Search Committee for Assistant Dean for Collection Development
 - Member, Curricula Committee
- m) Yen - Sabbatical Review Committee, General Library.

9. Public service

- a) Davidson - Member, Amnesty International (local chapter)
- b) Fletcher - Sunday School teacher, St. Mark's on the Mesa Episcopal Church
 - Brownie Troop Leader, Troop 201
- c) Homestead - Contributions to: C.A.R.E., Kenyon College, Society of Friends relief programs.
- d) Moynahan - KNME Pledge Drive volunteer, Nov. 28 - Dec. 6, 1981.
- e) Thorson - Friends of the UNM Libraries
 - Friends of the Bodleian Library, Oxford
 - Committee to Elect Marion Cottrell Mayor
 - University of Arkansas Alumni Association, member
- f) Verstynen - Democratic Party Precinct Chair. County Central Committee, Voter Registrar. Newman Center library consultant.
- g) Weber - Volunteer in Big Brothers/Big Sisters of Albuquerque.

Attachments (Technical Services Departmental Annual Reports)

The Annual Report of the
Collection Development Division
of the General Library
July 1, 1981 - June 30, 1982
Jeanne Sohn, Assistant Dean

I. General Departmental Information

A. Significant achievements during the year

Staffing

The most significant activity for the Collection Development Division during the fiscal year 1981/82 was the appointment of a permanent Assistant Dean for Collection Development. Although the previous Acting Assistant Deans had made valuable contributions to collection development within the General Library, the feeling on the part of library faculty was that a permanent appointment could solidify the existing structure and activities within Collection Development as well as stimulate new and necessary growth. Consequently, the search was initiated and completed on 3 August 1981. Jeanne Sohn began work in the position of Assistant Dean for Collection Development.

For the greater part of the year the selection assignments remained static with the exceptions of the following: Margo Rathburn resigned and her areas of Speech Communication and Journalism were transferred to Dorothy Trester, and Marilyn Fletcher volunteered to assume selection responsibility for Newspapers. However, the latter part of Spring semester saw a number of losses to the selection staff which had not been replaced on a permanent basis by the end of the fiscal year. Deborah Eagan, Judy Pence, and Charles Seavey all resigned, leaving their areas of selection responsibility to be covered by others. Unfortunately, the subjects are not always areas in which existing staff

have expertise or else the staff has sufficient responsibilities that they could not assume additional assignments without serious detriment to their primary assignments. Such is the case with linguistics and geography, which will be handled in a minimal way by the Assistant Dean until someone with the appropriate background can be found. Furthermore, as the fiscal year drew to a close it became apparent that the Library would be losing a number of key people in FY 1982/83, including two collection development coordinators, the head of Special Collections, the international documents selector, and for a short time, the sociology/anthropology selector. It will put a strain on resources to fill these positions even temporarily with existing staff. However, it can be done so long as the responsibilities are spread fairly thinly and the full range of collection development responsibilities are not expected of the faculty filling in.

It became evident as the year progressed that there were a number of projects which required assistance at a lower than professional level. Both the Assistant Dean and the selectors felt that most of the work of an investigatory nature - searching, checking the stacks, etc. - could be handled by a student assistant. Consequently, in January Cathy Carnako was hired. She has proven to be a very valuable addition and has worked on a number of projects for collection development as well as for the retrospective conversion project when help was needed.

Collection Development and Management

One of the stimulating aspects of collection development as a whole at the University of New Mexico is that there are so many things which can be done. The potential is great and the accomplishments require merely the time and energy to achieve them.

One of the first things which needed addressing was the U.S. approval plan which the library has with Blackwell North America. It had been some time since any significant changes had been made. In that time, academic

programs have been both added and dropped; teaching faculty have changed and with them, emphases in courses have altered; library faculty have been replaced. Consequently, the profile -- that mechanism which defines which books we receive -- was quite outdated and simply was no longer serving our needs. In a series of meetings in conjunction with the coordinators and selectors, the Assistant Dean was able to prepare a new profile which was presented to the BNA representative at ALA Midwinter in January. After one or two misunderstandings, the final profile went in to effect in March. At this point, it appears to be quite adequate in supplying the majority of research-level trade and university press books which the Library requires.

Insofar as other approval plans are concerned, most are working quite well. There was a recent reassessment of the Latin American blanket order plans which is still current. In addition, due to a commitment to SALALM, the Library has added Chile to the list of countries covered by these plans. The approval plan for art with Wittenborn seemed somewhat slow this year in providing materials. Consequently, the art librarian expanded the profile, allowing more architectural and photography materials to be received. In addition, due to a slight decline in publishing, some money was transferred out of the Fine Arts approval plan into the title-by-title portion of the budget. The music plans needed little attention. However, it is apparent that the British approval plan has some serious problems; the return rate, which should normally average about 5 per cent, varies between 25 and 30 per cent. This is unsatisfactory to both the vendor and the Library. Despite efforts to reduce the number of books returned, the drop has been insignificant, and it has been agreed that the Assistant Dean will make arrangements with Gerald Pridmore at ALA in July to receive only forms for six months. During this time, a reprofiling will be done in light of the types of materials being ordered with the forms.

During the year a number of issues were raised which were apparently resolved to the satisfaction of all parties concerned. In the Fall, the Latin American Institute presented a report to the Library indicating that they felt their materials budget had declined disproportionately to the rest of the Library's budget. After a thorough investigation, the Library submitted its report to LAI and agreed that the budget should indeed be increased. However, this must take place over several years so as not to detract from other University programs.

The question of whether or not to purchase the "hometown" newspapers of foreign students has been resolved in part through cooperation with Ioana McNamara of the International Center. It has been agreed to eliminate duplication between the Library and the Center and for the Library to maintain subscriptions to those papers which support the teaching and research needs of the University.

The Tireman Learning Materials Center had an issue raised in conjunction with the Anita Osuna Carr Bicultural-Bilingual Collection, focusing on the definition of bilingual. It was determined that Spanish should not be the only language included, although the main focus will be on Spanish language materials since Spanish is acknowledged as an official language of New Mexico. However, Native American languages, as well as other languages such as Vietnamese which support the needs of New Mexico schools, will be acquired.

Since it was the first year for the newly appointed Assistant Dean, many of the items that came up for discussion were procedural or in some way needed internal resolution. One of the ways of handling issues of this sort was to present them for discussion at Collection Development meetings. Selectors can place any items on the agenda they wish and have an open discussion. Usually a consensus is reached and the problem resolved in that manner. In addition, Collection Development meetings have been used as an educational

form, in which old procedures can be reviewed and changed as necessary, and new procedures introduced. In this manner, every selector has the advantage of having input in an active way. Furthermore, specific topics are presented for review; for example, a series of meetings included explanations of all of the approval plan management reports. Likewise, many of the Library faculty are able to make presentations of informational value to the selectors. Susan Deese has made several presentations, as have Farrel Brody, Bob Migneault, Donald Farren, Benita Weber, and others. The minutes of these meetings are a valuable source of information.

The Library was fortunate to have been able to accomplish some major purchases in this fiscal year. One of the more important was having positive microfilm copies made of the New Mexico newspapers. Under the guidance of Linda Lewis, the negative copies were gathered, listed, sent to the photographer and returned in good order, allowing access to papers which had previously been extremely limited in use due to their archival natures. In addition, the Library's budget was organized to allow some major purchases as the year progressed. Among these were the following:

Chemical Abstracts. - 10th Collective Index.
British Library. General Catalog 1971-1975.
Fearon Pitman. Curriculum Development Library
Heilbron. Dictionary of Inorganic Chemicals.
Peabody Museum of Archaeology and Ethnology. Catalogue of the Library.

In addition to acquiring materials through purchase, the Library also obtained important materials in several other ways. One sometimes tends to belittle the importance of gifts. Yet the Acquisitions Librarian reports that almost 79,000 items were received and reviewed by the subject selectors this year. Some of the major donors included former UNM President

Dr. Ferrel Heady, James H. Foley (architectural books from the estate of Louis G. Hesseiden), Mr. and Mrs. Charles Brown, and the Clark Field Library of Anthropology. Of course not all gifts were added to the collection, but many of those that weren't were well disposed of by being set aside for the Friends of the Libraries Booksale. The Booksale, held in October 1981, was a very successful event and made over \$7600.00. Part of this money came back to the Library's Special Collections at the time of the annual Friend's Dinner. Purchased for presentation at this event were three items of note --

George Crook. Résumé of Operations Against the Apache, 1882 - 1886.

Charles Siringo. Two Evil Isms, Pinkertonism and Anarchism.

Heriberto Frias. Biblioteca del Nino Mexicana.

In addition, the Fine Arts Library benefited from the Dance Department's recital, SpringTimeSpace, which donated proceeds from one performance to the Friends. Purchased from that money was the N.Y. Public Library's Dictionary Catalog of the Dance Collection. The Tamarind Institute enabled the Library to purchase Duchatel's Manual de Lithographie Artistique pour l'Artiste et l'Imprimeur.

Several of the Library's faculty deserve recognition for their part in obtaining gifts. Deborah Eagan, formerly the Librarian of the Tireman Learning Materials Center, received \$5000 from the family of the late Anita Osuna Carr to benefit the collection named in her honor. Instrumental in obtaining this gift was the Pan American Roundtable of which Anita Osuna Carr was an influential member. A gift that continued throughout the year were selected videotapes from Channel 5's program "Illustrated Daily" hosted by Hal Rhodes. The tapes chosen are particularly valuable in presenting issues of importance in contemporary New Mexican life, issues such as the WIPP project and political campaigns. Alice Clark can be thanked for acquiring these materials. Charley Seavey should receive credit for

working with the Geology Department and acquiring all of their old maps and geologic folios, 500 pieces in all.

Without doubt, however, the most significant collections received were those of three U.S. Senators from New Mexico, Joseph M. Montoya, Dennis Chavez, and Pete V. Domenici. These papers join the papers that are already in the Special Collections Department of other political figures, U.S. Senator Harrison Schmitt and Congressman Manuel Lujan. For acquisition of all of these papers, the University community must be grateful to the Dean of Library Services, Paul Vassallo, for his many efforts to gather these materials in order to add to the research strength of the University.

Grants were another source of acquiring books beyond those purchased with the Library's materials allocation. As in previous years, the Library participated in a matching funds grant from the Canadian province of Quebec. In addition, we received a visit from Michel Robitaille, Consulate General in Los Angeles, encouraging us to continue our collection building in this manner. We also benefited from faculty grants. We received \$4000 a year for two years to build up our collection in imperialism and colonialism from a Latin America Institute grant. In addition, Andrew Burgess is writing a number of proposals with library resources in Religious Studies as the central component. Even if only a few are successful, the library will surely benefit. LAPE continued its support for materials in Latin American education and the Latin American Institute subsidized \$7500.00 worth of library materials from its Title VI grant.

It is difficult to calculate the worth of all of the materials mentioned above, but obviously the value is great. Include all of the new books we didn't have to buy because of timely gifts and the value becomes greater still. Anyone who looked with disdain at "free" materials need only regard those received within the last year to recognize the value to the Library and the University community.

Budget

The first assignment of the new fiscal year was to allocate the materials budget. In July selectors had been assigned one quarter of their previous year's budget to begin expending for the current year. Everyone was cautious, however, not knowing their full allocations. It took the Assistant Dean some time to become familiar with the previous budgets, the specific subject and departmental needs and the various idiosyncrasies of the BATAB system. However, by the end of September, the final budget was approved by Executive Council and distributed to all concerned.(see attached)

There are aspects in our budget accountability which are quite unsatisfactory and which will require some sort of change in the next fiscal year. In the first place, approval plan accountability is impossible to achieve through BATAB without requiring an extraordinary amount of work on the part of the Acquisitions Department. Consequently, it is possible to run rampant with BNA form selection since there is no fund allocation whatsoever. British approval is little better since it breaks down only into the four major funds, and any one subject area can dominate the entire Agency if the selector sends through a large number of expensive orders in a short time. It will be necessary to control these expenditures, in part by placing greater responsibility on the selectors to account for their BNA/BHB expenditures but also of necessity to allocate at least the form monies if only in a very crude way initially.

Another area which lacks control is the actual fiscal year encumbrance amount of each selector. BATAB always indicates an overall encumbrance figure which takes into account amounts which may have been encumbered over a period of years. However, it is impossible to tell the dollar amount that has actually been submitted to the Acquisitions Department for ordering for the given fiscal year alone. This issue, too, will require attention in

the next fiscal year, especially since it is desirable to have a relatively even rate of expenditures flowing into Acquisitions. Again this will require manual bookkeeping on the part of the selectors. Not only will this permit an ability to pinpoint actual encumbrance figures more readily, it will enable selectors to monitor their own rate of expenditure much more easily.

An additional area for budgetary attention lies in the area of serials. In FY 1981/82, serials accounted for slightly over 50% of the total materials budget. Yet this area has already been cut to the maximum and has been operating on an "add one/drop one" basis for some time. Many disciplines have been deprived of essential research materials for too long. It was obvious that an infusion of money would be essential, perhaps even at the expense of some monographs. Toward the end of the year, a positive occurrence, which hopefully will become a trend, became apparent. The Serials budget was not being grossly over expended or even, as in previous years, totally consumed. The reasons for this were, at least, twofold. The dollar stood up well against European currencies so that foreign materials were costing less. Furthermore, fewer continuations were being published so that anticipated rates of publication (and ultimately expenditures) dropped significantly enough to alter substantially the predicted budget trends. If this current trend continues, it will be somewhat easier to do the essential, that is, to add new serial titles to the collection without drastically harming other areas of the budget. The gains will be slight compared to the demand, but it will be welcome. It may also be possible to increase the budget by a small amount in addition.

After the budget was prepared and distributed, it was necessary to begin work on a report to the BEF. The six state-supported, four-year institutions agreed to support a proposal prepared by UNM for \$2.5 million dollars in additional library funding. Even though the extensive report pointed out

the deficiencies in the academic libraries of New Mexico and made a strong plea for excellence through adequate funding, the BEF refused to support it and the request was denied. Likewise when the State made its allocations to the University, only 10% was granted for Library support for 1982/83. Fortunately (as in the past) the University has shown its generosity by adding 5% to the 10% granted by the State and, although the necessity has reduced the amount granted this fiscal year, has maintained its Special Allocations support by including a further \$200,000 in the Library's budget. The university cannot, with its limited budget, answer all of the problems the library has, and it is essential that the State of New Mexico respond more realistically to the needs of its institutions of higher learning. Unfortunately, the point made by the North Central Association Evaluation Team in its report still holds true. The problems are primarily external, and still existing is "a legislative attitude negative to increase in general expenditure level, which extends to higher education."

The third major budgetary activity took place in the Spring with the preparation of the "Report on the Status of Library Finances." When the Evaluation Team of the North Central Association of Colleges and Schools reported on its visit of April 9-11, 1979, it found that, although the library had received good funding derived from a bond issue, the end of the bond funds would leave the library completely overwhelmed by inflation. In addition to having to deal with this equivalent of an immediate 30% cut, "the bond issue did not really solve the major problems facing the institution," i.e., building up a strong retrospective base of support. The Evaluation Team saw the potential for serious problems, with the "future of (the) library clouded by resource allocation issues." Consequently it requested that a report be filed by June 30, 1982 to NCA focused on the status of the library, especially library finances. The general tenor of that report was on a positive note,

stating that creative efforts on the part of the Library staff, while not off-setting the problem of poor state funding, were helping the Library to maintain its status in many areas.

UNM's President Davis in his report "For the Future" stated that "one of the three areas of continuing pressing concern" for the university is library funding. A striking example of this need is the following: since 1977, 860 new courses have been approved, many of them requiring library materials. Of necessity it has been the library's policy to advise the appropriate departments that support could not be forthcoming without additional money. In some cases, the university has been able to allocate some monies. However, more frequently than not, the course has remained without any significant library support.

The Library tries to maintain a rigorous stance, particularly in preparing the "Library Impact Statement" for Forms A, B, and C. The Assistant Dean's position on the Curricula Committee has in this past year re-emphasized to a number of departments and individual faculty members the need to seek funding for specific courses. We can hope that Dr. Davis' advice will be followed -- that the "BEF must address the problem and convince the legislature" of the need for funding in order to make a long-term commitment to excellence.

Materials Budget FY 1981/82

Available funds 1981/82
 Appropriated books
 - Supplemental

012-023-135
 596-120-023

\$ 1,064,712
300,000
 \$ 1,364,712

Binding

\$ 86,328

	1980/81 Budgeted	Expended	1981/82 Budgeted
Monographs			
Approval	\$ 139,560	216,402	\$ 243,300
Firm Order	<u>85,587</u>	<u>207,465</u>	<u>269,062</u>
TOTAL	\$ 225,147	423,867	\$ 512,362
Serials			
SUB	452,131	\$ 488,743	\$ 560,000
STO	<u>160,869</u>	<u>124,774</u>	<u>153,000</u>
	613,000	612,517	713,000
Services			
ARLM		3,000	2,500
CRLM		16,066	16,350
BATS		500	500
OCLC		90,530	115,000
TAPES		<u>3,567</u>	<u>5,000</u>
		113,663	139,350
		\$1,150,047	\$ 1,364,712
Binding		73,512	86,328

B. Significant Plans and Recommendations for the Near Future

There are many, many things which can be done in the area of collection development, and the most difficult aspect is to choose those things which can and should be done first. Certainly one step has been taken in revising the profile for the BNA approval plan. In the coming year it will be necessary to determine how to handle the British approval plan, whether to select through forms or to continue to have a book program. Given the organizational structure of collection development, it seems far more advisable to maintain a book plan and insure at least minimal coverage in selected areas. Other approval and blanket order plans will continue to be monitored and analyzed to ascertain the appropriateness of materials being received.

The matter of inconsistent approaches to collection development must be handled. There are a number of aspects to this which require different solutions; however, education is the primary method. At collection development meetings of all the selectors, both old and new policies and procedures will be presented, discussed and, if necessary, altered to meet present needs. Work has already begun on compiling materials needed for a collection development manual. This should contain as many as possible of the policies and procedures of the library that pertain to collection development. This will of necessity be a long term project as will the creation of a new collection development policy statement. When completed, these two documents should go a long way in helping educate both current and new selectors in approaching their assignments. On a much shorter term, however, it will be necessary to maintain a continuing dialogue with selectors regarding their responsibilities.

It has been mentioned earlier in this report that the Library's materials budget has allowed little growth in the past few years. University administration has provided additional funds but that can and should not continue forever. The State and most particularly the Board of Educational Finance must be educated to understand the necessity for a substantial increase in funding for libraries in the state but most particularly for its largest institutional library. It is easy merely to pay lip service to the concept that the library is the heart of an institution. It is more difficult to convince those with the authority to support that concept with appropriate funding. The University of New Mexico has the potential for developing an excellent library with research collections of quality, but only if the support is forthcoming. It will be a constant goal of the library to seek what it considers adequate funding, funding commensurate with its position as one of the 100 major research libraries in the United States.

C. Appointments to Staff

1. Jeanne Sohn was appointed to the position of Assistant Dean for Collection Development effective 3 August 1981.

2. Selection Coordinators and Selectors

Bensinger, Claire	German literature and language
Bernstein, Judith	Business administration and management, Parish, public administration
Davidson, Russ	Ibero-American history, political science, sociology, economics, geography
Dickerman, Carolyn	Biology
Eagan, Deborah	Tireman, elementary education
Farren, Donald	Special Collections, New Mexicana, rare books

Fletcher, Marilyn	Newspapers
Grothey, Mina Jane	Ibero-American language and literature, Spanish philosophy
Hanson, Mary Ellen	Education, psychology; <u>Education Coordinator</u>
Hight, Bea	Philosophy, religious studies
Hilditich, Bonny	Chemistry, physics
Hutchins, Carol	Mathematics, geology, computer science; <u>Science Coordinator</u>
Jacobs, Jim	International documents
Jones, Kay	Reference materials
Lewis, Linda	Women's studies; <u>Humanities Coordinator</u>
Marquez, Teresa	State documents
Moynahan, Sharon	Ibero-American anthropology, archaeology, education, psychology
Oscadal, Fran	History, economics, political science; <u>Social Science Coordinator</u>
Paniagua, Ernestine	Ethnic studies
Pence, Judy	Classics, linguistics
Pistorius, Nancy	Art, architecture, photography; Ibero-American art
Robertson, Ellen	Sociology, anthropology
Rollins, Stephen	American studies
Seavey, Charles	Government documents, maps, geography
Sohn, Jeanne	Theatre arts, film
Stine, Diane	Russian language and literature
Thorson, Connie	English and American language and literature, Scottish and Irish literature

Trester, Dorothy	Journalism and speech communication; secondary and special education
Verstynen, Evelyn	French language and literature
Vivian, Zanier	Engineering
Weber, Benita	Library science, library tools
Wright, James	Music

D. Separations from Staff

None

E. Sponsored Research or other Projects

None

II. Composite of Information Requested on Individual

Biographical Supplements - 1981 (Jeanne Sohn)

1. Advanced Study

English 570 Publishing Procedures, Spring 1981

(Temple University)

2. Sabbaticals, Leaves of Absence, Summer Teaching Elsewhere, Travel, etc.

None

3. New Scholastic Honors, Fellowships, etc.

Promotion to L-4 (highest librarian rank), April

1981 (Temple University)

4. Publications

None

5. Other Research Projects and Creative Work in Progress or Completed

None

6. Activities in Learned and Professional Societies

Attended ALA Conference, January and June

6. Activities in Learned and Professional Societies (continued)

Elected Vice-chair/chair-elect ALA/RTSD Chief C.D. Officers

of Medium Sized Research Libraries Discussion group

Appointed to ACRL/WESS 1982 Conference Committee

Appointed Membership chair of Philadelphia Booksellers'

Association

Appointed Chair of Pennsylvania Library Association 1981

Conference Exhibits Committee

Attended Delaware Valley ACRL meeting

Attended PLA Southeast Regional Meeting

Attended Greater Albuquerque Library Association meetings

7. Other Professional Activities

None

8. Non-teaching University Service

Temple University - RLG/RLIN Collection Management and

Development Committee

UNM - Faculty Senate Budget Review Committee

Faculty Senate Curricula Committee (ex officio)

Faculty Senate Library Committee (ex officio)

9. Public Service

Member, Washington Square West Civic Association

Member, Spruce St. Resident Owners' Association

Office of Graduate Studies

Annual Report

July 1, 1981 - June 30, 1982

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Office of Graduate Studies
July 1, 1981 - June 30, 1982

A. Charlene McDermott, Dean of Graduate Studies

A. Introduction.

The 1981-82 fiscal year was one of many changes for the Office of Graduate Studies. A. Charlene McDermott, Associate Dean, became Dean on June 1, 1981. During the Fall semester, Professor Ronald Blood (Educational Administration) served as acting Associate Dean. On January 1, 1982 Associate Professor Alan Reed (Public Administration) assumed the position of Associate Dean.

A memorable career in the office came to an end on December 31, when Shirley A. Earickson retired from her position as Assistant Dean. A pivotal force in the office for more than 38 years, Dean Earickson will be missed by everyone. Fortunately she was able to serve on a part-time interim basis during the last half of the academic year while a search was conducted for her replacement. At the end of the year, the search was essentially completed, but a replacement was not yet named.

The Center for Graduate Studies at Los Alamos also received a new director when Professor Don McLaughlin (Chemistry) assumed this office at the beginning of the 1981 Fall semester. To improve communication and rapport with the Graduate Centers, office space was provided and regularly scheduled office hours were maintained by Directors John-Steiner and McLaughlin.

A. Significant Developments - Overview.

1. Progress in updating, refining and revising policies governing graduate education at UNM mandated an agenda for both the Senate Graduate Committee and the Office of Graduate Studies of heroic proportions, which included effecting a change in the number of hours acceptable toward degree requirements for non-degree and extension work, revising the doctoral residence requirement to permit more flexibility and to conform more closely to the needs of both traditional and non-traditional students, clarifying the rule regarding concentrated courses and workshops, approving revisions in the Music Masters degree requirements, approving a Postmaster certificate program in Nursing and a tax accounting concentration in Management, changing the method of electing SGC members to permit overlapping terms to insure some degree of continuity and asking that college representatives be selected on the basis of both experience in and dedication to graduate education, examining a proposed doctoral concentration in Art Education which was tabled indefinitely pending further clarification of the number of doctoral faculty available and the adequacy of library resources (the concentration was later withdrawn by the department), etc. Many of these revisions were incorporated in the 1982-84 Graduate Bulletin under the able editorship of Mary Kollander.

2. The implementation of all these changes is the more remarkable in view of the fact that the OGS and the SGC (under the able chairpersonship of Professor J.D. Finley III of Physics & Astronomy) also conducted the first full year of program reviews by way of carrying out the policy

passed by the Faculty Senate in 1978 but not funded until fiscal year 1981. Eight program reviews were conducted (in accordance with the schedule originally set by the Senate where still appropriate), with a view to selecting a range of programs which would provide as diversified a collection of paradigms as possible for the ongoing review process to use in subsequent years. The Departments of Art, Computer Science, Counselor Education, Electrical & Computer Engineering, History, and Music and the Schools of Architecture & Planning and Nursing participated in the first phase of the academic unit reviews. The Senate Graduate Committee took on the onerous task of writing guidelines for departmental self-study reports, and for the site visit teams. In each case two members of the Senate Graduate Committee were designated as primary consultants to work with the review teams while they were conducting their reviews on campus. Many members of the committee also participated in other phases of the reviews, including unit self-study reports. Late in the 1982 Spring semester, the SGC reviewed and received most of the reports from the two-member SGC teams. As a result of these first-year reviews, the Committee plans to draft more comprehensive guidelines for the next series of reviews to assist external as well as internal reviewers. The processing, synthesizing and distillation of all the data together with recommendations to be made in timely fashion, is the primary ongoing task of the Assistant Dean and of the Graduate Office Intern. (More below about the latter position which is new, and the restructuring of the former position to meet a part of OGS' newly defined functions).

The Office of Graduate Studies and the Senate Graduate Committee decided upon the following units for review during the 1982-83 academic year: Communicative Disorders, Geology, Modern & Classical Languages, Secondary & Adult Teacher Education and Sociology. These reviews will be carried out by the Graduate Office and the Senate Graduate Committee, the latter under the leadership of Professor Paul Pohland (Educational Administration) who will serve as its chair for the coming year.

3. The Office of Graduate Studies functioned as a catalytic agent in promoting much closer rapport with the various College Graduate Committees, with the resultant cross-pollination of many ideas, notably those germane to strengthening TA/GA programs and criteria for selecting graduate faculty. Moreover, this office was instrumental in bringing about an exchange of representatives between the Arts & Sciences and the College of Education Graduate Committees. A ramification of this exchange, should it prove fruitful, so as to include the other colleges, is envisioned for 1983-84.

4. The newly established graduate lecture series with an interdisciplinary focus quickly proved itself to be a huge success. Such luminaries as Mary Jane Clark, Larry Benson, Irving Howe, James March and Stephen Toulmin were included, with as many as 700 faculty and students attending a given lecture. Especially noteworthy was the involvement of the north campus faculty.

5. The Graduate Dean requested and succeeded in receiving funding from the Central Administration for five \$6,000 challenge assistantships

to be awarded during 1982-83. The annual report for that period will carry details of these assistantships.

An ad hoc TA/GA committee was constituted which, and with the help of the Office of Institutional Research headed by Dick Cady, collected data relating to the improvement of the GA/TA program. Various parameters were found to be crucial to the enhancement of the quality of the program: among them obviously, the financial parameter. As a result of this committee's study and recommendations, a nearly 10% increase across the board was made in TA/GA stipends for the next academic year. Moreover, the committee provided a forum for airing specific problems and difficulties which now had rendered the TA/GA program less than optimal in several departments. This fall, an expanded committee under the supervision of SGC will organize a symposium for representatives from each graduate unit to share their respective concerns and make suggestions for programmatic improvements.

6. The new Dean engaged in a series of goodwill and information-gathering sessions. Over and above the customary exchanges with all department chairs, Regents, and Deans interested in graduate policy, there were trips to the Graduate School at the University of Utah, WICHE, UNM on-site programs, and, more recently, the French and German summer language schools at Taos. One outcome of the WICHE visit is that, with the support of the President and Provost and the encouragement of the new BEF staff member, negotiations have been renewed which, if successful, will confer the privilege of resident tuition on those of our graduate students who participate in exchange programs with member institutions.

Within the state, an intensification of our involvement in the organization of New Mexico Deans resulted in the group's wholehearted endorsement of a Graduate Fellowship Proposal and in an extension of invitations to the group's Fall and Spring meetings to our Engineering and Arts & Sciences Deans, respectively.

7. Dean McDermott and Associate Dean Reed asked Professor Milton Garrett of the Management Development & Training Center to undertake an organizational study and motivational plan. Several meetings involving the deans and professional staff took place during the second semester. A management development plan was adopted with six-month, eighteen-month and thirty-six month components. A number of high priority improvements were identified with the help of the collective wisdom of the staff.

8. One of the most urgently needed improvements is a systems analysis that could contribute to automation and change procedures to make them more efficient and easier to understand and use. That analysis was started in June with the help of the Computer Services and Information System staff.

In March, the first computer terminal was installed in the office, thereby allowing the staff to begin using the central admissions and student history files. Several training sessions were provided by CSIS staff member Bryan Dersham, who has been instrumental in the systems analysis. The computer is expected to become fully integrated into office routines within the next two years and to be used by virtually all staff members to save time and increase productivity.

9. A major accomplishment during this year was the appointment of

the first management intern, Bernadette Bernally. Ms. Bernally, who is an MA student in Public Administration, is an intern under the Navajo Tribal Internship Program. She receives a full time salary, travel and related expenses from her Tribe. The Office of Graduate Studies developed a twelve-month plan for her internship in close cooperation with the Internship Office in Window Rock, and provides both work space and support for her. She is handling most of the routine personnel and purchasing procedures in the office. She is also doing the main systems analysis for the staff and preparing the materials for a Graduate Office orientation session to be conducted in late August. She has been an extremely valuable addition to the administration of the Graduate Studies Office.

10. The first two issues of Graduate Notes appeared during 1981-82; the Notes nicely fill the need for an outlet for communication and will be published quarterly during the coming academic year.

Further outreach efforts included OGS's involvement in Legislators' Day, Gubernatorial Candidates Day, luncheons with Albuquerque Greater Chamber of Commerce members, and particularly legislators (the last, obviously with the assistance of Bill Week's office).

12. An Office of Graduate Studies orientation program is being developed by Associate Dean Reed and, with it, what appears to be a useful compendium on OGS procedures in a handbook.

13. Dean McDermott represented UNM at the Graduate School in Salt Lake City, Utah, and at WICHE, in Boulder, Colorado, both during Summer

1981; the Land Grants College meetings in Washington, D.C., December 1981; at the Council of Graduate Schools annual meeting in Washington, D.C., December 1981 (presented a paper for G*POP); and at the Western Association of Graduate Schools in March, 1982, at Las Cruces (panelist on WICHE proposal). She also gave a presentation on Renaissance Philosophy for the Theatre Arts Department in November 1981 and lectured at the Theology for lunch series at UNM during Spring 1982 (Giordano Bruno). She published a review of Studies in Medieval Linguistic Thought in Historiographia Linguistica IX:1, 1982; "Dependent Co-Arising", in the K.N. Jayatilake Commemoration Volume published by the University of Penadeniya, Sri Lanka, Ceylon, and submitted for publication a revised version of COMPARATIVE PHILOSOPHY: A READER.

Associate Dean Reed was presentor and moderator at the New Mexico chapter of the American Association for the Blind's Public Affairs and Legislative Workshop, in September 1981; presentor and moderator for the Rio Grande Chapter of the American Society for Public Administration's Certificate Workshop on the New Federalism in October 1981; served as a panelist at the UNM Economic Students' Council, Public Affairs Form and Mayoral Debate in November 1981; and served as presentor for the New Mexico Municipal League, City Managers Association, Workshop on Municipal Utility Management in February 1982. His publications include "The Plural Executive," in F. Chris Garcia and Paul L. Hain, eds. New Mexico Government, UNMPress, 1981; and he has submitted for publication War Shock; the Dawn of the Postnuclear Age, a book completed in May of 1982; he has also submitted Managing the American States, a five page book

proposal to publishers. He has been active in both university and community service.

C. Recruitment, Retention, and Affirmative Action.

Assistant to the Dean Antonio Gomez undertook several initiatives to broaden efforts at recruitment, retention and affirmative action.

He submitted the proposal for continuation of the Graduate Professional Opportunities Program (*G*POP), was successful in securing the award of ten continuing and seven new fellowships from the U.S. Department of Education. These fellowships comprise the largest financial aid program for minorities and underrepresented groups at the University of New Mexico. For ethnic and racial minorities in science, engineering, medical sciences or law school, and for women of all ethnic and racial groups in the sciences and engineering, the fellowships are indispensable in their efforts to achieve career goals.

After interviewing many department administrators during the year, Mr. Gomez prepared a report on retention efforts and the problems of minority graduate students. The Office intends to follow up the study through numerous means to understand and respond to the problems of graduate students who drop out for financial or personal reasons.

The Assistant to the Dean also began a long-range project during the year to seek foundation funds for augmenting declining federal support for graduate fellowships. Thirty-seven foundations active in the area were identified and preliminary inquiries made about their interest in

such a proposal. As the year came to an end, two foundations appeared interested in reviewing the proposal with some not yet responding.

Last year all of the State's universities supported a proposal for the first state supported graduate minority fellowships. The Board of Educational Finance was not convinced to proceed with the proposal to the Legislature. This year Mr. Gomez continued the discussions with the other State institutions and submitted a somewhat revised proposal for further consideration. The proposal calls for seventy-five fellowships, about half of which would be designated for UNM. The Office has urged the universities to make this a high priority for the joint lobbying effort in the next legislative session.

D. Developments at the Centers for Graduate Studies.

1. LOS ALAMOS. The Los Alamos Center for Graduate Studies received a new Director in 1981, Don McLaughlin, a faculty member of the Chemistry Department. Significant developments during the year included the purchase of a VAX instructional computer, jointly with the Los Alamos Branch College, the hiring of Los Alamos resident Walter Brainerd as Manager of the Los Alamos Computer Center and as a faculty member of the UNM Computer Science Department.

Several advisement and planning meetings and surveys helped develop the course of future offerings, with several departments producing well-defined curricula leading to the master's degree, the initiation of a new round of the MBA program and a significant revision of the Medical Science Master's program.

The operational budget for the Center was reduced by the funding agency (Los Alamos National Laboratory) in midyear, which necessitated cutbacks in some areas. Nevertheless, several new courses were offered in the areas of current technology, including software engineering, information processing models of cognition, photochemistry and laser physics. Ten students from Los Alamos earned masters' degrees during 1982/82.

2. SANTA FE. The major development during 1981-2 at the Santa Fe Graduate Center has been a stronger coordination between departments so that a number of the courses are now serving a variety of programs. In addition, SFGC is increasingly recognized as an important educational facility in Santa Fe. It not only receives varied requests for new courses and programs, but is advising both in-state and out-of-state students in increasing numbers who are planning to pursue graduate degrees at UNM.

E. Projections & Recommendations.

Following is a list (randomly ordered as will be obvious) of a few of our more important aspirations for 1982-83.

1) Passage of our statewide minorities fellowship proposal. (This and Item #2 in cooperation with the Council of New Mexico Graduate Deans.)

2) Cooperation with our engineering administration towards a solution (in conjunction with our counterparts throughout the state) to the dilemma with which engineering is confronted in the form of

Industry's "eating its own seed corn."

3) Strengthening of our affirmative action and recruitment efforts.

4) Improvement of the quality of doctoral dissertations through the implementation of the guidelines presented in our newly evolved document on dissertation proposals. This document is being circulated to the faculty for input.

5) Refinement and tightening of the criteria for selection of faculty to serve in various capacities in the supervision of graduate education with a proviso for periodic review and reinstatement (where justified) of a faculty member to a given status. SGC is already at work on this.

6) Refinement and implementation of a clearly articulated policy - in the process of being developed by the TA/GA Committee - for the governance of our TA/GA program (Apropos - the "ad hoc TA/GA Committee" is being expanded and legitimized as a subcommittee of Senate Graduate Committee.

7) The development of improved policy and criteria for the selection of programs and faculty for our off-campus graduate instruction with special attention to the needs of our nascent telecommunication project. Initial discussions with Associate Provost Sanchez and appropriate appropriate staff and members of SGC are underway.

8) Continuation and expansion of our periodic program reviews together with the tandem process of data analysis and recommendations therefrom for the programs already reviewed.

9) The development of two new projects in cooperation with the Office of Research Administration. The first is a television series on the world of research at the University of New Mexico. This would provide an inside look at the rigors and rewards of devoting oneself to extending the frontiers of knowledge. The second is the publication of a periodical identifying and presenting research achievements at UNM.

10) As a direct outgrowth of the Dean's conversations with individual department chairs, the Dean is planning a series of luncheon dialogues, each to include 8 or 9 chairs plus one college dean, to discuss issues relating to graduate policy and planning.

11) Review and revisions in the admission policy so as to lessen the incidence of errors in this area.

12) In view of its impact on the already apparent strengthening of interdisciplinary research, an expanded challenge assistantship program is a desideratum and a clear priority of this office. E.g., it is hoped that one or two of next year's challenge TA's might play a role in a university-wide computer literacy program.

13) Refinement and eventual passage (through SGC and Senate) of the projected programs in pharmacy, criminal justice and Tribal administration. There are also some interesting programs in the process of gestation with LANL and our own Biochemistry Department. The issue of federal funding as it relates to our LANL contract is obviously a critical component of our planning in this area.

14) Increased efforts to assist our graduate students in the areas of advisement and placement. We intend to explore (with the knowledge

and help of Career Services), to a greater extent than has heretofore been done, opportunities at Los Alamos, Kirtland and Sandia, as well as (with the help of the Chamber of Commerce) potential openings in businesses in Albuquerque.

15) Making of meaningful distinctions between the PhD and EdD degrees and the clarification of their respective requirements. Dean Colton and I have already begun discussion of this problem.

16) Evolution of a strong but flexible hybrid dissertation policy.

17) Development of a strong role for UNM in WICHE graduate exchange programs.

18) Increased cooperation with the Library Dean to bring about greater fiscal support for the UNM Library.

19) Review of the policy governing expenditures from OGS' share of Cost of Education Allowance funds received by the University.

20) Automation of student records in the Graduate Office.

21) Continued improvement in OGS clerical staff efficiency.

F. Promotions of Staff.

Kathryn M. Carr, CS II to CS II/IV 7/31/81

Janet W. Knop, CS V to Staff Assistant (VIII), 11/1/81.

Mary E. Kollander, CS VII to Administrative Assistant (X), 8/1/81.

G. Appointments to Staff.

Joanne Henson, CS IV, 10/23/81.

Gwenn A. Johnson-Cooka, CS V, 11/23/81.

H. Separations from Staff.

Kathryn M. Carr, CS II/IV, 6/4/82.

Shirley A. Earickson, Assistant Dean, 6/25/82.

1. Tables and Figure.

Tables and Figures 1-6 provide statistical information on enrollment, both at the masters and doctoral level, on the number of degrees awarded. Although the number of master's degrees increased during this period, the number of doctoral degrees awarded declined. Tables 7-8 show the number of teaching, graduate, research and project assistantships awarded during the period of this report. Needless to say, there is but meager financial aid available to graduate students.

Respectfully submitted,



A. Charlene McDermott
Dean of Graduate Studies

Table 1. Graduate Student EnrollmentFall Semester, 1969-70 to 1981-82

<u>Academic Year</u>	<u>Enrollment</u>	<u>Change from Previous Year</u>	<u>Percentage Change</u>
1969-70	2,799	+ 134	+ 5.0 %
1970-71	3,210	+ 411	+14.7 %
1971-72	2,985	- 225	- 7.0 %
1972-73	2,909	- 76	- 2.5 %
1973-74	2,951	+ 42	+ 1.4 %
1974-75	2,923	- 28	- 0.95%
1975-76	3,289	+ 366	+12.5 %
1976-77	3,405	+ 116	+ 3.5 %
1977-78	3,470	+ 65	+ 1.9 %
1978-79	3,545	+ 75	+ 2.17%
1979-80	3,563	+ 18	+ 0.5 %
1980-81	3,657	+ 94	+ 2.64%
1981-82	3,757	+ 100	+ 2.73%

TABLE 2. MASTERS LEVEL ENROLLMENT

Colleges, Schools Division	1977-78			1978-79			1979-80			1980-81			1981-82	
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
School of Arch & Plan	91	82	12	84	83		88	75	13			25	103	105
College of Arts and Sciences														
American Studies						1					2	7		11 16
Anthropology	72	71	9	61	50	5	56	52	5	51	66	14	69	62
Biology	69	66	20	61	57	14	52	50	14	52	48	23	53	53
Chemistry	44	40	15	43	41	16	49	45	16	33	33	14	42	39
Communicative Dis	47	28	26	49	39	27	41	40	27	47	53	40	54	51
Comparative Lit	7	6	--	5	8	2	2	2	2	4	3	1	3	3
Economics	27	26	11	25	29	13	34	32	13	33	35	12	38	33
English	46	42	16	49	53	15	53	42	15	46	48	24	47	44
Geography	10	12	2	13	12	3	14	12	3	14	16	2	15	18
Geology	52	53	5	62	53	7	59	57	7	58	52	12	57	61
History	38	44	14	46	41	19	49	47	19	49	42	15	40	38
Latin American Stu	7	7	4	12	8	3	8	9	3	14	13	7	17	15
Linguistics	17	14	6	12	6	0	--	--	--	11	11	1	6	5
Mathematics & Stat	24	22	7	27	30	13	38	35	13	44	41	14	41	42
Modern Languages	41	40	15	37	32	11	34	29	11	36	38	21	41	36
French	(8)	(11)	(4)	(9)	(8)	(2)	(9)	(11)	(2)	(11)	(13)	(7)	(15)	
German	--	--	--	--	--	--	--	--	--	--	--	(2)	--	
Portuguese	(1)	--	--	--	(1)	--	--	--	--	--	--	--	--	(2)
Spanish	(32)	(29)	(11)	(28)	(23)	(9)	(25)	(18)	(9)	(25)	(25)	(12)	(26)	(34)
Philosophy	26	24	2	23	21	2	22	20	2	23	24	7	23	17
Physics & Astronomy	25	24	6	24	24	5	30	28	5	33	30	7	49	35
Political Science	13	13	3	15	12	6	11	11	6	12	12	5	14	7
Psychology	44	35	5	42	38	13	36	36	13	35	33	8	39	41
Sociology	16	16	5	11	13	7	18	15	7	22	15	7	14	15
Speech Comm	29	35	17	40	31	13	36	21	13	31	34	20	27	32
College of Education														
Art Education	43	39	23	34	37	19	39	35	19	33	25	20	30	37
Ed'l Admistration	89	73	69	78	71	55	61	70	55	81	90	106	116	108
Ed'l Foundations	41	36	19	31	26	27	40	49	27	226	208	25	51	46
Elementary Education	281	242	287	252	252	285	253	222	285	37	41	207	191	177
Guidance & Counseling	111	100	66	99	97	65	104	112	65	118	130	78	133	115

TABLE 2.
MASTERS LEVEL ENROLLMENT (Continued)

Colleges, Schools, Divisions	1977-78			1978-79			1979-80			1980-81			1981-82	
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
Hlth, Phys Educ & Red	107	102	68	126	108	84	106	88	84	99	98	81	99	97
Home Economics	--	--	--	14	13	11	15	24	11	20	16	12	21	15
Sec & Adult Tchrr Ed	197	190	151	192	163	152	160	157	152	159	134	118	135	132
Special Education	202	185	163	169	165	173	166	185	173	180	237	212	245	229
College of Engineering														
Chemical Engr	13	16	4	18	21	6	31	34	6	36	30	5	27	29
Civil Engr	45	46	13	32	41	12	35	40	12	41	40	10	32	44
Computer Science	33	33	12	48	44	10	40	52	10	55	60	18	69	61
Elec & Computer Engr	113	93	31	87	87	28	110	123	28	127	127	30	127	123
Mechanical Engr	29	26	8	35	35	9	44	46	9	50	44	6	34	38
Nuclear Engr	23	23	4	18	24	4	5	28	4	30	26	5	24	18
College of Fine Arts														
Art	96	81	13	91	98	21	107	96	21	117	104	26	102	71
Music	28	35	10	37	34	11	42	40	11	35	37	13	32	31
Music Education	2	1	5	2	1	0	1	1	0	3	1	0	0	5
Theatre Arts	9	9	3	5	5	0	9	8	0	6	6	2	4	14
College of Nursing														
	--	--	--	7	5	2	23	18	2	34	33	12	44	39
Division of Public Administration														
	191	216	120	272	246	106	223	246	106	219	223	111	182	207
Medical Sciences Prog														
	30	36	13	32	37	5	30	29	5	26	29	7	36	34
TOTAL	2428	2282	1282	2420	2291	1280	2379	2361	1292	2382	2393	1404	2585	2438

*Anderson Graduate School of Management administers its Masters degrees; figures to be reported in AGSM annual report.

TABLE 3. DOCTORAL LEVEL ENROLLMENT

Colleges, Schools Divisions	1977-78			1978-79			1979-80			1980-81			1981-82	
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
College of Arts & Sciences														
American Studies	48	38	16	43	38	14	45	44	14	46	40	10	34	38
Anthropology	22	29	4	36	39	3	40	38	3	38	35	5	31	40
Biology	22	26	4	36	35	14	38	33	14	40	37	14	31	40
Chemistry	19	20	7	20	18	5	18	21	5	26	20	7	19	16
Economics	7	11	2	12	13	4	15	18	4	19	15	4	16	19
English	25	22	5	27	26	11	24	23	11	24	22	7	20	23
Geology	10	9	2	12	15	3	13	10	3	11	5	0	3	4
History	45	54	12	42	38	10	36	36	10	38	40	7	39	45
Ibero-American Studies	11	11	1	9	11	1	12	9	1	15	15	7	15	8
Mathematics & Stat	14	19	5	21	22	3	22	24	3	20	16	2	17	20
Romance Languages	43	36	16	43	46	11	43	41	11	39	33	10	25	
Philosophy	13	14	1	14	15	3	17	16	3	14	17	1	7	15
Physics & Astronomy	27	21	5	27	28	6	25	24	6	26	26	9	24	31
Political Science	6	6	-	8	6	0	8	7	-	7	7	1	9	10
Psychology	12	18	13	19	20	6	20	19	6	15	18	7	20	20
Sociology	7	5	4	9	9	4	12	11	4	11	11	2	8	16
Anderson School of Management	--	--	--	5	4	0	2	3	--	4	3			
College of Education														
Art Education	3	4	3	6	7	4	6	7	4	3	7	5	6	7
Ed'l Administration	47	62	32	40	63	35	64	68	35	34	39	25	32	34
Ed'l Foundations	52	50	22	44	40	13	41	39	13	41	36	11	48	50
Elementary Educ	48	35	23	35	46	15	47	47	15	40	39	24	31	39
Guidance & Couns	39	40	22	42	39	20	51	41	20	43	39	16	42	48
Hlth Phys Educ & Rec	44	37	27	44	37	29	42	43	29	47	49	28	52	56
Sec & Adult Tchr Ed	47	55	19	31	47	28	42	40	28	35	39	33	43	42
Special Education	33	33	24	26	43	24	40	41	24	33	37	22	44	60

TABLE 3.
DOCTORAL LEVEL ENROLLMENT (Continued)

Colleges, Schools Divisions	1977-78			1978-79			1979-80			1980-81			1981-82	
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
College of Engineering														
Chemical Engr	4	3	2	5	6	1	7	8	1	8	8	3	12	12
Civil Engr	15	12	1	10	14	5	10	11	5	9	9	2	5	12
Elec & Computer Engr	29	33	4	28	25	8	24	29	7	24	25	4	32	45
Mechanical Engr	7	9	1	10	8	1	12	11	1	13	7	4	11	5
Nuclear Engr	13	14	6	13	12	3	1	12	3	12	12	0	10	11
College of Fine Arts														
Art	25	36	2	33	20	8	20	3	8	29	31	7	32	55
Music	--	--	--	--	--	0	--	--	--			0	--	--
Public Administration														7
Medical Sciences Program	11	12	3	12	11	1	17	16	1	33	16	2	9	15
TOTAL	748	779	288	762	810	292	823	820	291	797	753	279	727	843

TABLE 4. MASTER'S DEGREES AWARDED BY UNIT AND BY YEAR

DEPARTMENTS BY COLLEGES DIV/PROGRAM	1927 thru																											
	1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82		
American Studies																										1	3	
ARCH & PLAN															6	7	13	10	23	20	21	18	19	13	16	16		
ARTS & SCIENCES																												
Anthropology	56	2		4	2	2	1	7		2	7	9	6	14	17	9	13	13	4	8	19	14	15	9	12	10		
Biology	104	11	4	5	8	12	7	12	6	11	14	18	21	17	18	18	15	17	19	11	23	15	16	12	7	5		
Chemistry	24	1	2		1	1	2	6	1	6	3	9	2	4	1	10	9	6	7	3	4	10	7	9	11	6		
Comm. Dis.																	3	19	20	11	21	18	20	16	14	19		
Comp. Lit								1		1	1			3	1	2	2	1			2	2		1	3	0		
Economics	40	1	3	4	2	2		1	3	1	6	7	8	5	3	7	11	6	3	3	6	5	4	3	6	5		
English	137	6	7	4	6	5	6	6	17	21	23	17	23	12	20	14	19	10	10	12	4	14	7	5	3	7		
Geography																	4	3	5	3	2	3	2	2	--	2	2	
Geology	54	11	7	13	11	9	6	5	4	2	6	9	8	7	5	7	8	5	11	9	6	13	12	10	14	10		
History	112	2	6	3	7	12	7	10	13	15	11	19	14	15	13	21	16	11	4	6	8	3	3	11	3	3		
Inter Amer Aff	24	1	1	2		2																		--		0		
Lat Amer Stu							3	3	3	1	3	4	16	7	14	9	10	8	10	8	7	9	4	6	5	5		
Linguistics																						1	2	2	1	5	1	

TABLE 4. MASTER'S DEGREES AWARDED BY UNIT AND BY YEAR (Continued)

DEPARTMENTS BY COLLEGES DIV/PROGRAM	1927 thru																										
	1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	
Math & Stat	44	1	2	2	6	3	4	5	8	11	3	22	13	10	17	14	19	6	3	7	7	4	7	5	7	11	
MOD & CLASS LANGUAGES																											
Latin	2								1	2	1	5	3	9	9	4	9	3		2	4	2				0	0
French																									1	0	8
Spanish	116	5	3	6	3	4	2	5	9	12	10	16	6	15	8	12	7	7	4	6	3	1		3	2	4	
Portuguese							2	1	3		3				3				2		1	1			0	1	
ARTS & SCIENCES																											
Philosophy	4			2	3			1	2	3	4	4	3	7	4	5	5	2	4	3	5	11	3	2	0	2	
Physics & Astr	33	3	8	4	12	14	13	10	6	8	10	7	12	9	11	6	9	11	2	2	3	6	6	5	6	6	
Political Sci	59	2	2	2	3		2	4	2	2	3	3	8	5	6	5	2	3	4	1	5	6	1	4	1	4	
Psychology	72	5	4	2	3	5	3	1	6	4	9	8	6	4	4	9	7	4	9	8	10	14	9	8	5	5	
Sociology	20		1	1	1	1				1	3	1	1	3	2	4	4	5	4	6	1	3	2		0	2	
Speech Comm	15	2	1	3	4	2	3	2	4	7	11	12	11	14	21	18	11	7	5	19	12	14	14	11	14	14	
ANDERSON SCHOOL OF MANAGEMENT	11	4	4	1	3	5	4	9	9	8	28	30	20	25	29	27	28	52	52	45	47	46		91			
Industrial Admin							1	2	2		2	1	1	1				6	15	2	**		**				
COLLEGE OF EDUC																											
Art Education	43	4		4		1	1		4	4	8	3	7	8	9	18	20	23	9	14	22	19		12	8	9	

TABLE 4. MASTER'S DEGREES AWARDED BY UNIT AND BY YEAR (Continued)

DEPARTMENTS BY COLLEGES DIV/PROGRAM	1927 thru																													
	1957		58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82			
Educ'l Admin	339	16	15	20	21	21	21	23	23	28	35	36	21	16	11	21	18	9	10	18	33	19	17	24	38	29				
Educ'l Fdns																5	9	5	7	7	6	13	13	8	12	13	14			
Elementary Educ	59	5	18	12	6	9	9	9	13	21	23	33	39	56	31	60	59	76	77	87	76	87	72	81	76	87				
General Educ	120	1		1																										
Guidance & Couns		7	19	9	12	23	19	26	26	26	43	42	61	55	65	83	71	85	59	80	59	56	46	43	38	36				
HEALTH, PHYS ED & REC																														
Health Educ																2	3	2	3	7	8	7	11	5	11	9	5			
Physical Educ	30	6	8	6	4	8	11	10	8	12	17	18	19	12	18	12	14	13	13	8	11	22	11	17	18	10				
Recreation							2				4	3	2	4	4	1	5	13	8	10	6	15	11	16	10	8	10			
Home Economics																								6	5	7	5			
Secondary Educ	85	10	8	9	6	9	3	9	7	4	13	17	27	26	20	40	48	46	38	59	32	34	63	67	59	50				
M. Educ Sci				14	6	8	31	24	39	30	18	20	4																	
Tch Bus Subj												2	4	11	4	6	6	4	4	6	8	6								
Tch English															9	10	1	2		6	1									
Tch Home Ec												4	6	3	6	5	8	6	6		5	2								
Tch Indus Subj												4	3	5	5	5	7	7	4	7	6	4								
Tch Math												1	7	16	10	7	28	9	12		3									
Tch Science												1	7	3	7	6	1	4	5		1									
Tch Spanish				8	6	10	21	9	14	16	8	8	1	6	3	7	8	3	4		7	1								

* Commencing Fall 1978, the MA in Home Economics is awarded under the jurisdiction of the Home Economics Department.

TABLE 4. MASTER'S DEGREES AWARDED BY UNIT AND BY YEAR (Continued)

DEPARTMENTS BY COLLEGES DIV/PROGRAM	1927 thru																										
	1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	
Special Educ												6	16	25	39	37	33	50	56	38	61	60	67	64	64	85	
COLLEGE OF ENGR																											
Chemical Engr				1	4		1		1	4	2		1		6	3	2	2	1		2	5	3	5	14	15	
Engr Sci Mtls											1	1	2		2	1			3	1							
Civil Engr	23	6	5	6	7	8	7	7	11	12	12	15	13	10	15	10	6	7	13	9	12	13	15	20	14	6	
Computer Sci																			3	3	3	4	10	8	10	12	
Elec & Comp Engr	31	11	11	12	23	56	40	58	58	32	31	30	35	34	22	36	29	39	30	36	29	25	35	28	30	33	
Mech Engr	18	7	10	11	15	27	28	23	26	5	26	15	25	18	20	19	8	3	4	9	7	8	1	18	23	10	
Nuclear Engr						6	5	7	3	8	6	3	9	11	9	9	14	6	17	9	7	7	10	10	8	7	
FINE ARTS																											
Art	52	9	4	4	6	5	9	7	6	6	14	13	24	15	11	15	14	18	24	20	18	29	13	31	31	36	
Music	27			1	2	3	3	1	5	7	6	5	4	2	3	5	6	9	6	7	2	8	9	8	7	6	
Music Educ	1	4	4	6	3	5	5	9	4	7	7	3	8	10	7	1	5		3	5		1	1	3	0	0	
Theatre Arts																									1	2	2
Division of Public Adminis															13	17	36	33	30	35	32	57	65	74	81	70	90
Medical Science Program																			4		1	2	1	6	9	2	
COLL. OF NURSING																									4	4	8
TOTAL	1755	143	157	182	196	278	282	313	347	345	434	484	527	547	568	680	682	692	665	680	724	751	634	797	697	716	

TABLE 5. DOCTORAL DEGREES AWARDED BY UNIT AND YEAR

DEPARTMENTS BY COLLEGES DIV/PROGRAM or by name of degree	1927																									
	thru 1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
ARTS & SCIENCES																										
American Studies	3	3	2		1	1			1	1	2	1	3	4	1	6	5	10	4	12	6	9	4	5	8	4
Anthropology	9	2		1			3					1	3	4	2	1	2	3	3	5	4	2	5	6	4	5
Biology	7	2	1			1	1	1	2	1	1	1	5	2	4	3	10	8	5	4	5	2	3	10	6	6
Chemistry	22	4	6	2	4	7	3	3	4	2	6	6	3	6	6	6	4	5	2	8	5	9	10		9	6
Economics															1	1	2	1	2	3	4	2	2	3	3	1
English	9	3	3	2	4	1	2	1	2	3	7	12	16	11	7	14	18	11	9	9	12	4	3	5	2	7
Geology						2	1	1	2	3	4	2	3	3	4	9	2	2	2	3	3	1		9	3	0
History	18				4	4	3	3	8	6	6	3	7	18	17	17	11	12	11	15	11	6	9	4	4	3
Iber-Amer Stu							1			1	1	2	3	3		3	5	4	1	2			2	1	0	0
Mathematics						1	2	2	4	1	5	6	7	10	7	9	9	5	5	5	6	6	1	3	7	2
Physics	6			1	2	3	2	2	4	2	4	8	2	2	5	1	6	4	7	1	3	8	3		5	0
Philosophy														1	1	3	1		1	2		1	1	1	0	1
Political Sci																	2	3	2	1	1	1		2	0	0
Psychology						1				1	2	5	8	12	8	6	5	13	4	7	9	7	6	6	12	11

TABLE 5. DOCTORAL DEGREES AWARDED BY UNIT AND YEAR (Continued)

DEPARTMENTS BY COLLEGES DIV/PROGRAM or by name of degree	1927 thru 1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
Romance Lang														6	7	4	4	5	7	3	8	6		3	10	3
Spanish	11	2	1	1	2			1	1		3		2			4										
COLLEGE OF EDUC																									34	34
C & I						2	1	1	5	5	4	9	18	25	22	26	32	30	20	12	19	14		29		
Educ Admin				2	1	1			3	2	8	4	10	8	3	4	8	7	2	5	5	4	5	5		
Educ Founds												2	2	4	5	6	3	9	7	7	5	8	7	7		
General Educ					3		2																			
PPS							1	2	4	5	2	4	5	14	9	22	6	17	15	8	10	5		10		
COLLEGE OF ENGR																										
Chemical Engr									1					1	1	1	1	2	1		1		1		0	3
Civil Engr										1		2	3	3	5	4	3	1	3	1		2	2	1	1	3
Elec & Comp Engr					2	4	5	4	3	10	7	10	3	5	7	7	7	6	9	3	4	1	3	3	2	2
Mech Engr									3	3	2	5	2	1	2	4	3	1	4	3	4	1			0	0
Nuclear Engr										2	1	1	1	3	4	2	1	2		2	2		6	3	1	3

TABLE 5. DOCTORAL DEGREES AWARDED BY UNIT AND YEAR (Continued)

DEPARTMENTS BY COLLEGES DIV/PROGRAM or by name of degree	1927 thru 1957	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	
COLLEGE OF FINE ARTS																											
Art History														2			1	2	1		2				2	1	2
Med Sci Program													1	3	1			3	2	1	6	5	3	3	3	4	
AND SCH OF MGMT																								1	0		
TOTAL	85	16	13	9	23	28	27	21	48	48	65	85	106	146	129	163	152	166	129	122	135	104	76	122	115	98	
MASTER OF FINE ARTS										1	2	1	2	1	4	3	2	4	6	4	4	1		2	7	11	

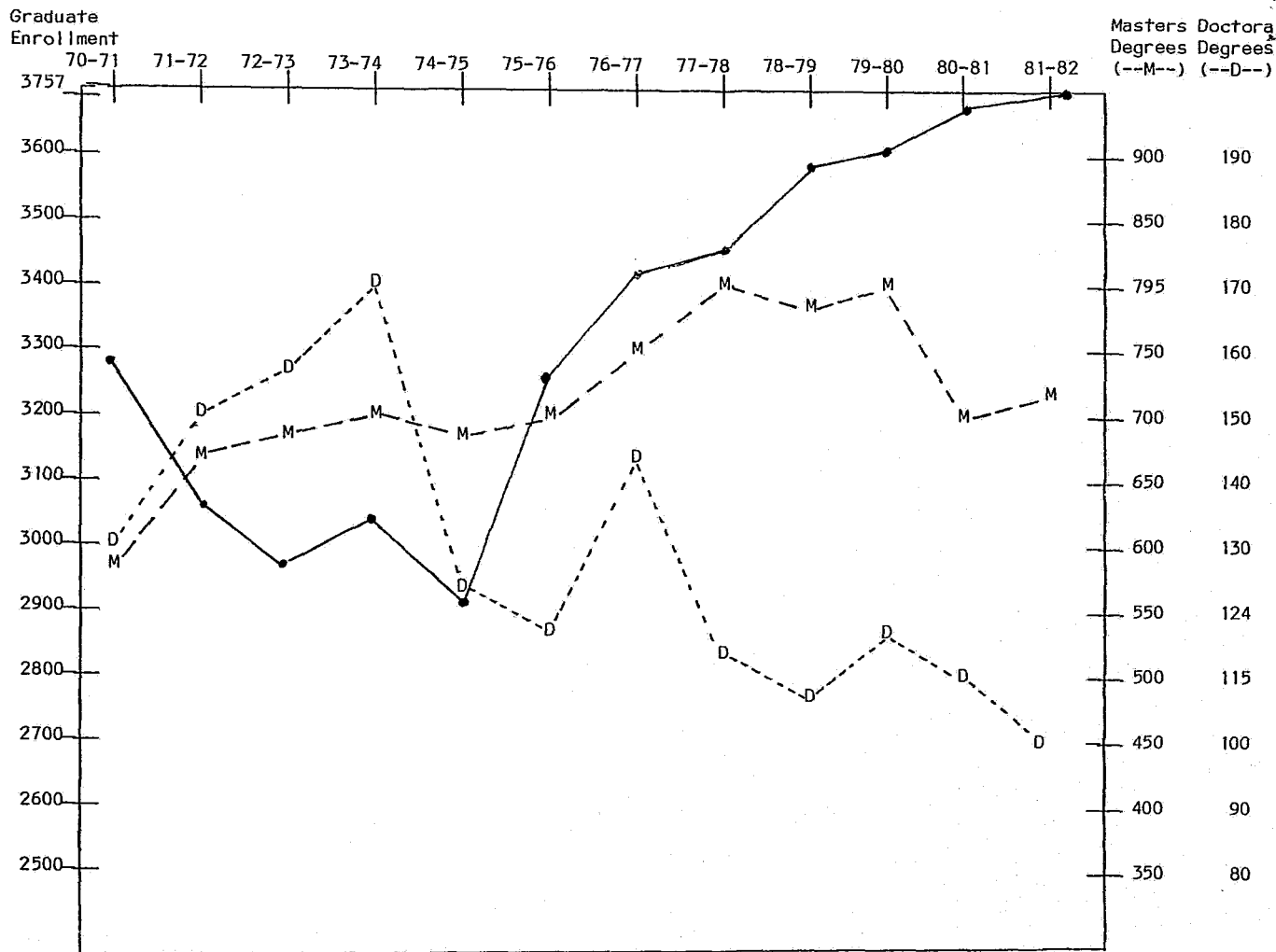


Table 6. Enrollment Table

Table 7. Graduate Assistants, Teaching Assistants, and Teaching Associates, 1981-82 (Number of Awards)

College, School, Division	Summer 1981	Fall 1981	Spring 1982
School of Architecture and Planning		13	12
<u>College of Arts and Sciences</u>			
American Studies		4	5
Anthropology		15	16
Biology		55	54
Chemistry		39	37
Communicative Disorders		3	4
Economics		20	19
Geography		5	6
Geology		21	17
History		22	23
Ibero-American Studies			
English		63	56
Linguistics		2	2
Mathematics and Statistics		30	31
Modern & Classical Languages		50	49
Philosophy		6	7
Physics and Astronomy		24	24
Political Science		10	10
Psychology		26	24
Sociology		10	10
Speech Communication		12	12
<u>Total</u>		<u>417</u>	<u>416</u>
Anderson Graduate School of Management		37	44
<u>College of Education</u>			
Art Education		4	3
Educational Administration		7	7
Educational Foundations		9	9
Elementary Education		26	27
Counselor Education		4	3
Health, Phys Educ & Rec		48	55
Home Economics		1	2
Secondary & Adult Education		13	15
Special Education		6	7
<u>Total</u>		<u>118</u>	<u>128</u>

Table 7. (Cont'd) Graduate Assistants, Teaching Assistants, and Teaching Associates, 1981-82 (Number of Awards, cont.)

College, School, Division	Summer 1981	Fall 1981	Spring 1982
<u>College of Engineering</u>			
Chemical and Nuclear Engr		11	9
Civil Engineering		7	9
Computer Science		9	13
Electrical & Computer Engr		22	23
Mechanical Engr		10	10
<u>Total</u>		59	64
<u>College of Fine Arts</u>			
Art		52	51
Music		16	16
Theatre Arts		5	5
<u>Total</u>		73	72
<u>Division of Public Administration</u>			
		11	9
<u>Other</u>			
Latin American Institute		3	1
NM Research & Study Coun		3	3
Latin American Projects		2	3
Bureau of Engin Research		4	2
English Tutorial		8	10
Native American Studies		1	1
Women's Studies		3	3
Afro-American Studies		1	0
Pharmacy-CPC		1	1
<u>Total</u>		26	24
<u>Grand Total</u>		755	758

Table 8. Research Assistants and Project Assistants, 1980-81
(Number of awards)

College, School, Division	Summer 1981	Fall 1981	Spring 1982
Albuquerque Urban Observatory		1	1
Anthropology		1	1
Biology		15	15
Chemistry		11	14
Economics		1	1
Geology		15	15
Institute of Meteoritics		1	1
Mathematics and Statistics		1	1
Physics and Astronomy		12	10
Psychology		4	5
Speech Communication		3	3
History		5	4
American Studies		0	2
NM Historical Review		1	1
Communicative Disorders		0	1
Linguistics		1	1
Elementary Education		3	1
Contract Archeology		0	1
Health, Phys Ed, and Rec		2	2
Special Education		1	1
Chemical & Nuclear Eng		1	2
Elec & Computer Eng		2	1
Bureau of Eng Research		37	38
Computer Science		1	1
Biochemistry		3	3
Microbiology		6	7
Instructional Media Serv		1	0
Pathology		6	5
Tropical/Geographic Med		1	0
Clinical Nutrition Prog		1	1
NM Energy Inst		1	1
Total		129	140

Table 7. (Cont'd) Graduate Assistants, Teaching Assistants, and Teaching Associates, 1981-82 (Number of Awards, cont.)

College, School, Division	Summer 1981	Fall 1981	Spring 1982
<u>College of Engineering</u>			
Chemical and Nuclear Engr		11	9
Civil Engineering		7	9
Computer Science		9	13
Electrical & Computer Engr		22	23
Mechanical Engr		10	10
Total		59	64
<u>College of Fine Arts</u>			
Art		52	51
Music		16	16
Theatre Arts		5	5
Total		73	72
<u>Division of Public Administration</u>		11	9
<u>Other</u>			
Latin American Institute		3	1
NM Research & Study Coun		3	3
Latin American Projects		2	3
Bureau of Engin Research		4	2
English Tutorial		8	10
Native American Studies		1	1
Women's Studies		3	3
Afro-American Studies		1	0
Pharmacy-CPC		1	1
Total		26	24
Grand Total		755	758

Table 8. Research Assistants and Project Assistants, 1980-81
(Number of awards)

College, School, Division	Summer 1981	Fall 1981	Spring 1982
Albuquerque Urban Observatory		1	1
Anthropology		1	1
Biology		15	15
Chemistry		11	14
Economics		1	1
Geology		15	15
Institute of Meteoritics		1	1
Mathematics and Statistics		1	1
Physics and Astronomy		12	10
Psychology		4	5
Speech Communication		3	3
History		5	4
American Studies		0	2
NM Historical Review		1	1
Communicative Disorders		0	1
Linguistics		1	1
Elementary Education		3	1
Contract Archeology		0	1
Health, Phys Ed, and Rec		2	2
Special Education		1	1
Chemical & Nuclear Eng		1	2
Elec & Computer Eng		2	1
Bureau of Eng Research		37	38
Computer Science		1	1
Biochemistry		3	3
Microbiology		6	7
Instructional Media Serv		1	0
Pathology		6	5
Tropical/Geographic Med		1	0
Clinical Nutrition Prog		1	1
NM Energy Inst		1	1
Total		129	140

ANNUAL REPORT

LOS ALAMOS CENTER FOR GRADUATE STUDIES

July 1, 1981 - June 30, 1982

Don R. McLaughlin, Director

I. Overview

This year marks the completion of the twenty-seventh year of operation of the Los Alamos Center for Graduate Studies. Ten students receiving the master's degree were honored at a Convocation held in Los Alamos on May 15, 1982, bringing the total graduates to three hundred forty-four.

The year also witnessed the appointment of several new principal administrators associated with the Graduate Center, including Charlene McDermott, Dean of Graduate Studies at UNM, John Fox, Group Leader of the Training Office at the Los Alamos National Laboratory, and Don McLaughlin, Director of the Los Alamos Center for Graduate Studies. John Fox replaced Janice Lumpkin in the Spring, who was Group Leader for the previous two years. Matters of policy and procedure require the close cooperation of these

key administrators, together with advisors from the several UNM departments involved, for a harmonious and productive educational function in Los Alamos. The Graduate Center also maintains a close association with the UNM Los Alamos Branch College (UNM-LA), under the direction of Herbert Lyon. Besides sharing space and facilities, several of the supporting staff members perform dual and overlapping tasks for the Branch and the Center.

II. Communications

1. News Releases

An essential component of the operation of the Graduate Center is good communications - keeping the people it serves aware of developments and receiving feedback. With this in mind a mechanism was established for producing frequent news releases to the media. More than twenty such announcements were made through the Los Alamos Laboratory Newsbulletin, the Los Alamos Monitor, the Santa Fe New Mexican, radio KRSN, and directly to classes being taught in Los Alamos. Information regarding new courses, programs, meetings, and developments was disseminated in this fashion.

2. Advisement and Planning Meetings

When the new Otowi Cafeteria was opened to the public at the Laboratory, a lunchtime consultation with the director was advertised and scheduled for the first and third Tuesday of each month. There was not much response to the consultation hour and a modified plan

was adopted of meeting with groups of interested people in various disciplines in open discussion meetings at the Cafeteria. A format evolved out of meetings initiated by the Science and Engineering Advisement Committee at the Laboratory which proved most effective. Laboratory administrators and UNM deans, chairpersons and advisors met with students in eleven Advisement and Planning meetings throughout the year in the areas of management, chemistry, computer science, electrical and computer engineering and medical science. Attendance was good (typically about 15) and both students and administrators became better enlightened regarding the various programs. A meeting was also held with an advisement committee consisting of Laboratory administrators in nuclear science and engineering. In part as a result of the meetings several new schedules of offerings have been prepared. These meetings will be continued next year and extended to new areas.

3. Surveys

In June of 1981 an extensive survey, prepared in consultation with Peggy Blackwell, Director of Behavioral Research, was announced and distributed to all Laboratory employees and to the public. Besides selecting from an extensive list of courses in several areas, the respondents classified themselves with respect to field of interest and background. Detailed analysis of 500 responses proved remarkably accurate in projecting relative and in some cases absolute class enrollments. The general conclusion was that this mechanism works well in reaching prospective students and retrieving information from them. On the basis of this survey and the several advisement and planning meetings held during the year, a more modest survey

was conducted in June of 1982. Using input from these meetings, and from departmental advisors a more restricted list of course offerings for both Fall and Spring semesters for 1982/83 could be surveyed. The small number of requests for courses not specifically listed on the survey is some evidence that needs have been brought into focus for next year.

III. New Programs

1. Computer Science

A significant development in Los Alamos this year was the strengthening of the computer science program in response to the increased interest in this area. The developments to be described below were done in close cooperation between the Laboratory, the University (UNM) and the Branch College at Los Alamos. Two major components of the expanded program were the establishment of a mid-sized computer facility and the hiring of a computer science faculty member resident in Los Alamos, Walter Brainerd. A loan from the general plant fund of the University was obtained toward the purchase of a Vax 11/750 mainframe computer with supporting peripheral equipment, including a printer and twelve terminals. Modems have been installed to permit dialup capability. This system is compatible with the instructional VAXs on the main campus and is serviced and managed (by Walt Brainerd) through the Computer Services Office on campus. The costs of the computer center in Los Alamos are shared between the Graduate Center and the Branch College.

2. The MBA Program

The Master in Business Administration (MBA) program continues to be the most popular graduate program in Los Alamos. As the second round of offerings was near completion, an analysis of the population in the MBA program was conducted to determine its success. The analysis showed that approximately one-third of the entering students of the previous two rounds had graduated, another one-third were still active in the program (four of these sixteen completed the program this year), and the remaining third had become inactive. A detailed search for the inactives showed that for the most part they had left the program for external reasons, such as moving away from the community. With this encouragement and the survey results, a new round of the MBA program was initiated Spring semester.

During the year some discussion has taken place regarding the possibility of incorporating public administrative and engineering elective courses into the offerings in an effort to adapt some of the material to the specific needs of Laboratory personnel. These courses will not need to be activated for at least another year, according to the program. One of the highlights of the offerings this past year was Ray Radosevich's course in Technological Entrepreneurship which served a need in the community for high technology business enterprises.

3. The Medical Science Program

The Medical Science program at Los Alamos has been carefully reviewed this year. Two cooperating committees have been

established by Dean Leonard Napolitano in the Medical Sciences College of UNM and by Division Leader Mark Bitinsky in the Life Sciences Division of the Laboratory. These committees have been charged with the task of adapting the medical science curriculum to meet the needs of the Los Alamos community. Several productive meetings have taken place resulting in a new medical science program to be proposed to the UNM Faculty Senate for approval this Fall.

4. New Courses

An effort was made in the Fall to stimulate interest in new courses in the areas of geology, public administration and political science in Los Alamos. For various reasons (partially financial), these courses were cancelled. Courses new to Los Alamos which were successful in the Spring semester were Software Engineering, Information Processing Models of Cognition, Photochemistry, and Laser Physics. The Cognition course is a joint offering between the Computer Science and Psychology Departments and the Laser Physics course was taught jointly by Laboratory and UNM professionals. These courses were taught by leading experts in the fields and continue the policy of bringing current technical material to the Los Alamos audience, as has been done for the last several years at the Graduate Center.

IV. Procedures and Policies

1. Travel

2. The MBA Program

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IV. Procedures and Policies

1. Travel

Two major changes in travel policy for UNM teachers conducting classes in Los Alamos were incorporated into the contract this year. The general travel policy of the University was adopted in place of the previous policy of reimbursing actual costs. The new policy pays per diem and actual mileage by private auto. An analysis of previous costs suggested that on the average the reimbursement would be about the same either way, with the added advantage of simpler accounting. In fact a few overnight stays were required by bad weather, and in these instances costs were marginally covered by the policy.

The billing for travel by air was changed to be paid directly by the Laboratory. Flight arrangements remained in the hands of the Center as before. This policy also facilitated the accounting procedure.

2. Class Meeting Times

A great deal of discussion has been concerned with employees obtaining release time from the Laboratory to take courses at the Graduate Center. While there are arguments on both sides of the issue, and while no unanimous opinion exists on the subject, it is agreed by students that taking classes in the evening does cause some hardships. In an effort to alleviate this situation two courses in the Fall semester and two in the Spring were scheduled during the lunch hour. Four more noon-time classes are scheduled for next semester. Besides the convenience of daytime classes, some savings in rent to the Los Alamos High School for classrooms are incurred. However one barrier to daytime classes is that few rooms suitable for classes are available to the public during working hours. In addition to using the Physics Annex at the Laboratory in the Fall, as has been done in the

past, a room at the Training Office has been reserved for two of next semester's classes.

3. Course Evaluations

The ICES evaluation form provided by the Office of Institutional Research at UNM was employed this year for evaluating classes and instructors. A default list of questions was provided with the option of each instructor selecting his own questions if desired. Questionnaires were processed at UNM by computer in the usual way. A summary of the responses was extracted for a combined report and circulated to the Training Office (as specified in the contract) and to UNM department heads. This method of evaluation seems acceptable and will be continued next year.

4. Preregistration

The decision of which courses to cancel on the basis of enrollment figures is made jointly between the Director and the Training Office Group Leader at the close of registration. Students are no longer allowed to register into the second week of classes at Los Alamos in an effort to aid the decision process. In a further effort to help students commit to classes, the main campus policy of allowing registration for courses as soon as they are announced was adopted. This was done to encourage students to declare their interest in the courses of their choice in a substantive way as early as possible. This maneuver has not proven effective so far, and additional avenues will be considered next year.

V. The Budget

1. Major Modification

When the 1981/82 contract was negotiated on July 31, 1981, the budget was increased approximately 20% for inflation and modest growth, and expanded about 25% for anticipated computer costs. The rationale for the expansion was that the estimated costs for usage on Laboratory computers by Laboratory students could be transferred to the UNM contract in the same amount, providing for the purchase of a share in a computer at the Graduate Center.

However in early November, the Director was informed that budget constraints at the Laboratory required that the contract budget be reduced by approximately 15% of the total amount (i.e. by 21% of the previous year's budget). In order to accommodate this modification, a revision of the Spring offerings was made and communicated to the Training Office Group Leader on November 19, 1982; thereafter every effort was made to abide by the revised budget, including cancelling all non-essential plus Summer courses. A refined projection of actual costs was communicated to the new acting Group Leader on April 30, 1982.

2. Minor Adjustments to the Budget

The 1981/82 contract was negotiated on an annual basis with accounting scheduled according to the three university sessions.

Some minor trimming was achieved by returning the university rental vehicle and a transfer from the watts telephone line to a local foreign exchange. These did not impact the budget noticeably for

1981/82 but will reduce costs next year by an estimated \$3000. Redirecting the billing from UNM to the Laboratory for Ross air service reduced the overhead to the contract by about \$3000. In 1981/82 all courses were taught by regular UNM, regular adjunct or team instructors, so that no funds were allocated to guest lecturers or special adjunct lecturers.

With the help of Lue Monochie, Senior Accountant assigned to the Los Alamos contract, and Bill Richards, University Accounting Director, several minor discrepancies and ambiguities were resolved in the budget. A computer program has been written by the Director to provide accurate projections of actual costs and rapid analysis of the effects of changing parameters.

Last Spring semester a policy for providing extra compensation for adjunct instructors directing individual students was established jointly by the Training Office Group Leader and the Director. This policy allows compensation for lecture material courses with enrollments of less than five students at a rate proportional to the number of students enrolled. Each such arrangement requires approval of the Director, Training Office Group Leader and UNM Department involved. It is proposed to include this policy in next year's contract.

VI. Statistics

1. Degrees Awarded

Ten students earned master degrees by completing the majority of their requirements at Los Alamos in 1981/82. Six were MBA

students, two computer science, and one each were chemical engineering and medical science students. These statistics match the general trends over the last several years, as presented in Table I.

The constancy in small numbers of bachelor degree candidates reflects the lack of strong emphasis on that degree by both the Laboratory and the Graduate Center. The decline in doctorate degrees reflects the general trend in increased availability of PhD employees. All trends implicitly reflect the hiring and training policies at the Laboratory as well as the labor market.

Prior to 1974, 70% of the master degrees were awarded in engineering with the remainder in science. Since 1974 there have been 26 master degrees in management but only 9 in the sciences (including medical science). Electrical and computer engineering and computer science account for 54 of the 62 total masters degrees awarded in engineering since 1974. There have been marked declines in degrees in chemical, nuclear and mechanical engineering, and in chemistry and physics in the sciences.

In summary, the strongest recent academic interests have been shown in masters programs in the business, electrical engineering and computer fields.

2. Enrollments and Costs

Table II presents annual enrollment and financial statistics for the last several years. Enrollments measured in terms of number of individual students registered, number of students on rolls and total student credit hours reached a maximum in the 1978/79 school year. This peak coincided with the initiation of the second round of the MBA program and the first round of the Masters in Medical Science program. Since then enrollments have declined regularly.

The initiation of the third round of the MBA program in the Spring has helped to reverse the downward trend in enrollment, with the result that the total student credit hours were significantly higher in Spring (830) than in Fall (740). This effect plus a restructuring of the medical science program are likely to produce a continuing upward trend next year.

2. Budget

While enrollments have oscillated in the last decade, costs have risen steadily. The trends in cost per student credit hour, or cost per course, as shown in Table II have increased dramatically during the past five years. Whereas the total budget increased an average of 23% per year during this period, the cost per credit hour and cost per course increased about 30% per year. This past year's budget increase can be accounted for by combining a 10% increase over the previous year together with an investment of 18% in the computer facility. Recognizing that the computer investment replaces an actual cost internally to the Laboratory in previous years smooths out and lowers the inflationary trend somewhat.

VII. Assessment

During the past year large adjustments in budgets and programs have taken place at the Los Alamos National Laboratory. Numerous programs were cut back or reassigned in response to federal directives. The uncertain economic and attitudinal climate had a noticeable effect on the operation of the Graduate Center, both

directly in a major budget reversal and indirectly in the plans of many students.

The University of New Mexico can respond to these changes in several ways, including remaining sensitive to the new directions in programs at the Laboratory and its community, and by exploring and implementing economizing measures such as the remote classroom concept (e.g. electronic blackboard, live television broadcast). Several departments on campus have already begun to plan for and help direct the future course of the educational needs in their respective areas.

The Center for Graduate Studies remains firmly committed to providing quality education in Los Alamos to those seeking advanced training coupled with university credit.

Finally, I would like to thank the many people who took a personal interest this year in helping the new Director gain some footing, and for their support of the Graduate Center.


 Table 1. Degrees Awarded through the Los Alamos Center for Graduate Studies

Year:	Bachelor		Master		Doctorate		Total
	54-73	74-82	54-73	74-82	54-73	74-82	

Engineering:							
Chemical and Nuclear	0	0	47	6	4	0	57
Computer Science	0	1	0	10	-	-	11
Electrical and Computer	8	13	27	44	3	1	96
Mechanical	1	7	18	1	4	0	31
Materials	-	-	8	1	-	-	9
Science:							
Biology	1	0	0	0	0	0	1
Chemistry	5	0	9	1	18	1	34
Mathematics and Statistics	9	2	6	1	2	2	22
Medical Science	-	-	0	4	-	-	4
Physics	2	0	28	3	14	4	51
Other:							
Business	-	-	0	26	-	-	26
University Studies	0	2	-	-	-	-	2

Total	26	25	143	97	45	8	344

Table 11. Enrollment and Budget Trends.

Academic Year	70/71	71/72	72/73	73/74	74/75	75/76	76/77	77/78	78/79	79/80	80/81	81/82
No. of lecture courses	46	42	45	47	46	41	44	54	52	55	50	45
Individuals registered	410	414	522	448	498	450	480	520	608	599	537	425
Average enrollment in lecture courses	11	12	13	12	13	13	14	12	14	13	12	11
Enrollments:												
Individual study	26	41	63	46	40	38	26	42	57	56	52	33
Undergrad. lecture	93	65	75	244	197	319	337	211	398	377	309	238
Graduate lecture	425	421	527	310	378	227	259	456	346	341	280	242
Total enrollment	544	527	665	600	615	584	622	709	801	774	641	513
Student credit hours	1640	1632	1935	1774	1769	1669	1735	2070	2328	2267	1916	1590
Budget (\$x1000)	131.6	117.1	147.2	140.9	128.3	140.6	151.2	151.9	196.2	219.0	271.4	347.8
Cost per SCH (\$)	80	72	76	79	73	84	87	73	84	97	142	219
Cost per lecture course (\$x1000)	2.9	2.8	3.3	3.0	2.8	3.4	3.4	2.8	3.8	4.0	5.4	7.7

THE UNIVERSITY OF NEW MEXICO
CENTER FOR GRADUATE STUDIES AT SANTA FE

ANNUAL REPORT

July 1, 1981 - June 30, 1982

Vera John-Steiner, Ph.D.
Director

During the academic year 1981-82 the Santa Fe Graduate Center faced some difficult financial problems due to changes in funding: the BEF allotment for 1980-81 was \$139,800 in contrast with the 1981-82 allotment of \$128,700. In spite of these constraints and the ensuing necessity to offer fewer courses during the past academic year, the average enrollment per course increased slightly.

The Center is growing; we are receiving more inquiries concerning existing programs and requests for new programs. These developments reflect stronger advisement procedures by both the Center's staff and departmental representatives, as well as increased publicity in local newspapers throughout the year.

Center Facilities and Staff

The Center's physical facility has undergone some changes. It is used by students and faculty; extensive changes have been made in one room to accommodate the practicum needs of the Counselor Education Department. The conference room was used for a summer 1982 computer course, for which a third telephone was installed. These changes, though useful, cannot fully meet the demands made upon our facility.

Staff members remained the same. Mrs. Burrage and Ms. Clarkson continue to be proficient in performing their duties at the Center. Dr. John-Steiner is devoting more time to individual advisement, as well as program development.

Administrative Procedures

The routine administrative procedures are working very effectively and no changes were made in the registration, classroom scheduling, faculty contracts, or accounting procedures.

Enrollment

We offered 37 courses in 1981-82 and maintained an average enrollment of 17 students per course. The careful selection of course offerings, to which the better advisement procedures and the need assessment have contributed, may

account for this increase. The Survey and Policy Research Program (formerly the Urban Observatory) conducted an Education Needs Assessment for us. They characterized the population from which we draw our students as individuals with annual household income between \$20,000-\$25,000. More than 50% of the respondents had attended college or graduate school within the previous two years. Most of the respondents to the survey, as well as the students enrolled in our courses, fall within the mid-twenties to forty years of age range. The respondents were predominately Anglo (58.4%) and Hispanic (35.0%). Females constituted 61.6% of the respondents.

Program Development

In view of the finding of the Needs Assessment for the Santa Fe Graduate Center conducted by Dr. Columbo, we have planned for new courses in Computer Education; e.g., one course was offered in the summer 1982 session. In addition, many of our students have expressed interest in courses of special interest to women. "Psychological Development of Women" was offered in the fall of 1981 and "Women in Management" was offered in the summer of 1982; both courses had high enrollment.

The following are some additional comments concerning departmental offerings.

1. Public Administration Division. Under the expert supervision of the newly appointed director, the MPA program in Santa Fe is firmly established and interest in it is widespread. Plans for strengthening the Criminal Justice component have been completed during the past year, and the first of these courses will be offered in the fall 1982 semester. It is the strongest department at the Graduate Center.

2. Counselor Education Department. The two-year pilot program, initiated in the fall 1980 and completed in the summer 1982, has resulted in the awarding

of eight Master's degrees. This is an increasingly popular program. Fifteen students have been admitted to the two-year block program at the Santa Fe Graduate Center, and they will begin their study in the fall of 1982. Hopefully the Counselor Education Department will be able to offer admission to as many as twenty students in the fall of 1984, faculty and funding availability permitting.

3. Secondary and Adult Teacher Education Department. A cycle of courses in SATE's Adult Teacher Education program has been completed, and no new cycle is contemplated for the coming year.

4. Special Education Department. Enrollment has been consistent and Special Education is a strong program at the Graduate Center. Many students combine a concentration in Elementary Ed. with a program of courses in Special Ed. This joining of programs works well as Elementary Ed. is beginning to offer more courses at the Center.

5. History Department. Graduate students in this program are very few. Of the eleven students enrolled in the fall 1981 course, three were in graduate status. History, however, is an important elective for Public Administration students.

6. Educational Foundations Department. The Department is continuing to offer its required research courses for a Master's in Education. Another service course in Testing and Measurement was offered in the spring 1982 and attracted a record enrollment of twenty-eight students.

7. Elementary Education. Plans for a stronger concentration in elementary education were completed in 1981-82. Although the department is ready to offer two courses per semester and the demand is great, we will be able to offer only one course per semester during the coming academic year without revision of our current funding. This is one area where a more feasible funding

formula would contribute greatly to the Center's usefulness to the Northern New Mexico communities.

8. Educational Administration Department. Student demand continues to be steady in this area with high enrollment.

9. Political Science Department. These courses remain important electives for students in both PA and Education. However, the course enrollment is much lower than in the other departments that offer electives, a fact that requires very careful advanced planning.

10. Speech Communication Department. Courses in this department have suffered in the past from low enrollment, and the fall '81 course was cancelled for that reason. The Spring '82 course, however, was successful with an enrollment of 21.

11. Sociology. During the summer of 1981, the course in "Culture and Society of New Mexico" was offered. This course and the one offered during the summer of 1982 (in cooperation with the Latin American Institute) seemed to meet an important demand in Northern New Mexico. These courses were taught in part, or in their entirety, in Spanish. Consequently, students in Bilingual Education as well as in the Social Sciences were able to use these offerings.

12. Anderson Graduate School of Management. The needs assessment survey indicated that programs in Management are much in demand in Santa Fe. However, AGSM is facing high demand for its program on main campus. In addition, they operate under very rigid rules allowing only degree students to enroll in their courses, thus making program development difficult in this area. PA and AGSM are trying to cooperate in planning course offerings during 1982-83 in an effort to alleviate these difficulties and to meet this very important need among the employees of state government.

13. Civil Engineering Department. No courses were offered in this area during 1981-82. However, a course is scheduled to be taught in the fall 1982 in response to the needs of the State Highway Department.

We would like to thank all of the departments for helping us develop course offerings which meet the needs of more than one program. It is only through such joint planning and careful use of the very limited Center funds that we can foresee the future existence for graduate programs in Santa Fe. Course enrollment has increased as a result of the application of this policy.

New Programs

There are no new programs under consideration at the Center at this time. We are fully committed to using our limited resources to help students complete programs in which they are already enrolled.

Service Activities

The Santa Fe Graduate Center responds to many requests concerning the University: the staff is engaged in both advisement and information dissemination for the main campus. This function has never been recognized by the University nor has it been funded. We see this as an increasingly important role.

At a time when federal financial aid is dwindling, potential graduate students in the Santa Fe area are in a better position to continue their studies and to pay for them than their younger peers enrolled on main campus. We would like to expand our advisement activities with the help of representatives from the Graduate School and from individual professional schools. Such an effort could result in attracting prospective students for both the Santa Fe Graduate Center and main campus. (We find it ironic that Law School faculty representatives meet with prospective students at the College of Santa Fe instead of using our facility.)

Professional Activities

Dr. Vera John-Steiner received a Research Allocation Committee Grant (UNM) for the study of children's writings in non-instructional settings and a second major grant from the Office of Education's Mina Schaughnessy Grant program (\$20,000)

for work on adult literacy, During the academic year starting the summer of 1981, she presented papers and lectured: "Interactionist Approach to Compositions," paper presented to New Mexico Council of Teachers of English, Sept. 1981; Northwestern University, Psycholinguistic Colloquium; Rutgers University, Psychology Department, Fall 1981; Bank Street College of Education, NY, Fall 1981; "The Holocaust: Learnings for a Pluralistic Society": last lecture series, UNM, Sept. 1981. In the Spring of 1982 she spoke at Rocky Mountain Psychological Association, and the University of Texas at El Paso, Linguistics Department, among other speaking engagements.

Dr. John-Steiner is a reviewer of grant applications for the National Endowment for the Humanities, National Science Foundation, and the National Institution of Education.

1981-82 publications include, "An Interactionist Model of Language Development," in B. Bain, Sociogenesis of Language and Human Conduct (Pergamon Press, in press), co-author: Paul Tatter. "The Road to Competence in an Alien Land," in J. Wertsch, Culture, Communication and Cognition: A Vygotskian Perspective (Cambridge University Press, in press). "Review of Portraits of 'The Whiteman': Linguistic Play and Cultural Symbols Among the Western Apache by Keith H. Basso," Contemporary Psychology, Vol. 26, No. 8, August 1981, co-author S. Steiner.

Non-teaching University Service: Research Allocations Committee, Senate Graduate Committee, Women Studies Advisory Committee, and Director of the Santa Fe Graduate Center.

Mrs. Anne Burrage, Administrative Assistant for the Graduate Center, has attended the AGSM Seminar on Accounting and Financial Essentials and the workshop sponsored by AGSM which discussed the General Ledger Detail Transaction Register. Mrs. Burrage also makes frequent visits to main campus to discuss Center business with various department heads in an effort to attain better

knowledge of precedures and policies for the University.

Recommendations for the Santa Fe Graduate Center

The many instructional, advisement, information dissemination, and public relations functions of the Santa Fe Graduate Center are not currently covered by our funding formula. It is essential that we change our appropriation formula to include both I and G components.

In order to meet the demands made upon our facility, both expansion and remodeling are needed if we are to offer further computer and practicum courses at the Center.

Respectfully submitted:

Vera John-Steiner, Ph.D.
Director

Attachments: 3



THE UNIVERSITY OF NEW MEXICO
 CENTER FOR GRADUATE STUDIES AT SANTA FE

TABLE I

SUMMER SESSION 1981

<u>DEPARTMENT/DIVISION</u>	<u>NUMBER OF COURSES</u>	<u>STATUS</u>		<u>TOTAL REGISTRATIONS</u>
		<u>GRADUATE</u>	<u>NON-DEGREE</u>	
Public Administration	2	11	13	24
Speech Communication	1	3	3	6
Guidance & Counseling	2	17	25	42
SATE	2	5	34	39
Sociology	$\frac{1}{8}$	$\frac{4}{40}$	$\frac{12}{87}$	$\frac{16}{127}$

ETHNIC

Indian: 1
 Spanish Surname: 48
 Black: 2
 Other: 56

ENROLLMENT

Men: 37
 Women: $\frac{70}{107}$

New: 57
 Returning: $\frac{50}{107}$

Non-Degree: 75
 Graduate: $\frac{32}{107}$



THE UNIVERSITY OF NEW MEXICO
CENTER FOR GRADUATE STUDIES AT SANTA FE

TABLE II
FALL SEMESTER 1981

<u>DEPARTMENT/DIVISION</u>	<u>NUMBER OF COURSES</u>	<u>STATUS</u>		<u>TOTAL REGISTRATIONS</u>
		<u>GRADUATE</u>	<u>NON-DEGREE</u>	
Public Administration	3	23	27	50
Political Science	1	7	5	12
History	1	4	7	11
Educational Foundations	2	12	18	30
Guidance & Counseling	1	7	--	7
Educational Administration	1	13	12	25
Elementary Education	1	4	20	24
SATE	2	15	11	26
Special Education	<u>2</u>	<u>11</u>	<u>21</u>	<u>32</u>
	14	96	121	217

ETHNIC
 Indian: 2
 Spanish Surname: 65
 Black: 1
 Other: 126

ENROLLMENT
 Men: 52
 Women: 142
 194
 New: 72
 Returning: 122
 194
 Non-Degree: 114
 Graduate: 80
 194



THE UNIVERSITY OF NEW MEXICO
CENTER FOR GRADUATE STUDIES AT SANTA FE

TABLE III
SPRING SEMESTER 1981

<u>DEPARTMENT/DIVISION</u>	<u>NUMBER OF COURSES</u>	<u>STATUS</u>		<u>TOTAL REGISTRATIONS</u>
		<u>GRADUATE</u>	<u>NON-DEGREE</u>	
Public Administration	4	38	40	78
Political Science	1	4	4	8
Speech Communication	1	11	10	21
Educational Foundations	1	14	14	28
Guidance & Counseling	1	7	--	7
SATE	3	12	37	49
Elementary Education	1	4	20	24
Educational Administration	1	14	10	24
Special Education	<u>2</u>	<u>17</u>	<u>18</u>	<u>35</u>
	15	121	153	274

ETHNIC

Indian: 2
Black: 1
Hispanic Surname: 76
Other: 157

ENROLLMENT

Men: 79
Women: 157
236
New: 104
Returning: 132
236
Non-Degree: 149
Graduate: 87
236

SANTA FE GRADUATE CENTER ENROLLMENT

Semester	Students	Returning	New	Degree	Non-Degree	Student Credit Hours	Registra-tions	Courses
Summer '75	47	0	47	18	29	141	47	1
Fall '75	95	24	71	31	64	357	119	5
Spring '76	<u>141</u>	<u>55</u>	<u>86</u>	<u>40</u>	<u>101</u>	<u>501</u>	<u>167</u>	<u>8</u>
	283	79	204	89	194	999	333	14
Summer '76	42	19	23	15	27	126	42	2
Fall '76	179	76	103	68	111	618	206	11
Spring '77	<u>211</u>	<u>78</u>	<u>133</u>	<u>65</u>	<u>146</u>	<u>768</u>	<u>256</u>	<u>11</u>
	429	211	218	175	254	1,512	504	24
Summer '77	113	40	73	31	82	360	120	4
Fall '77	157	77	80	65	92	630	210	8
Spring '78	<u>159</u>	<u>94</u>	<u>65</u>	<u>79</u>	<u>80</u>	<u>603</u>	<u>201</u>	<u>9</u>
	429	211	218	175	254	1,593	531	21
Summer '78	103	66	37	45	58	342	114	8
Fall '78	201	83	118	67	134	720	240	10
Spring '79	<u>226</u>	<u>117</u>	<u>109</u>	<u>94</u>	<u>132</u>	<u>834</u>	<u>276</u>	<u>14</u>
	530	266	264	206	324	1,896	632	32
Summer '79	165	96	69	54	111	621	207	10
Fall '79	230	115	115	97	133	918	306	18
Spring '80	<u>245</u>	<u>159</u>	<u>86</u>	<u>91</u>	<u>154</u>	<u>936</u>	<u>312</u>	<u>18</u>
	640	370	270	242	360	2,475	825	48
Summer '80	116	68	48	37	79	477	159	9
Fall '80	216	119	97	86	130	801	267	15
Spring '81	<u>254</u>	<u>143</u>	<u>111</u>	<u>82</u>	<u>172</u>	<u>945</u>	<u>315</u>	<u>17</u>
	586	330	256	205	381	2,223	741	41
Summer '81	107	50	57	32	75	381	127	8
Fall '81	194	122	72	80	114	651	217	14
Spring '82	<u>236</u>	<u>132</u>	<u>104</u>	<u>87</u>	<u>149</u>	<u>822</u>	<u>274</u>	<u>15</u>
	537	304	233	199	338	1,854	618	37
Summer '82	127	68	59	33	94	516	172	10

REPORT ON THE
OFFICE OF GRADUATE STUDIES
AFFIRMATIVE ACTION ACTIVITIES
(July 1, 1981 - June 30, 1982)

- I. Introduction
- II. Graduate and Professional Opportunities Program (G*POP)
- III. Recruitment
- IV. Applications, Admissions and Enrollment
- V. Advising and Counseling
- VI. Retention
- VII. Financial Aid, and G.A.'s, T.A.'s and R.A.'s
- VIII. State Funded Fellowship Proposal
- IX. Other Activities
- X. Problems and Recommendations

I. INTRODUCTION

During 1980-81 the affirmative action position in the Graduate Office (G*POP Program Director-Assistant to the Dean) was supported by a combination of funds from the G*POP COEA which accrue to the office and from institutional funds. Beginning in fall 1981, the position was funded entirely from institutional sources as part of the "permanent" Graduate Office budget. Half-time secretarial support has been provided by the Graduate Office since the beginning of the program in 1978. Recent Graduate Office annual reports contain details on the history of various aspects of graduate affirmative action activities.

The following is a brief overview of affirmative action activities in the Graduate Office during the period covered in this annual report.

II. GRADUATE AND PROFESSIONAL OPPORTUNITIES PROGRAM (G*POP).

UNM has received a G*POP grant from the U.S. Department of Education each year since the beginning of the program in 1978. Including the 1982-83 grant, a total of \$746,511 has been awarded to UNM since 1978. (See Table 1) Of 121 universities receiving G*POP awards in 1981-82, only 11 received more fellowships than UNM. Stanford was the only university of 31 western universities awarded G*POP grants in 1981-82, which received more fellowships than UNM.

Since 1978, 33 UNM graduate and law students have received G*POP fellowships. Sixteen students will have received advanced degrees by December, 1982. UNM awarded nine new G*POP fellowships in 1981-82 and those nine students only recently completed their first year of graduate

or law studies. Unfortunately, three of the students awarded new fellowships in 1981-82 have left the program, but six are continuing study toward their degrees. (See Tables 2 & 3)

UNM has received a grant for ten continuation and seven new fellowships for 1982-83. The combination of seven new and three vacated fellowships will allow us to award eight full and three partial fellowships to beginning UNM graduate and professional students in Engineering, Law, Mathematics, Physics, and Psychology in 1982-83.

We have recently been notified that the UNM G*POP program has been nominated (apparently by the U.S. Department of Education G*POP staff) for consideration as an exemplary program of the department.

Although the Reagan administration proposed elimination of G*POP in its recent budget, funding for the program is likely to continue given the response of the Congress to the proposed cuts in student financial aid.

III. RECRUITMENT.

Although the Graduate Office requested funds from the central administration for recruitment of graduate students from underrepresented groups in 1981-82, no funds were allocated from institutional sources. The recruitment program was supported by \$7000 made available by the Dean from the COEA which accrues to the office from the G*POP grant and \$1800 donated by UNM participating departments. A request for institutional funding for 1982-83 was also submitted, but was once again rejected. The Dean has made \$10,000 available from the COEA for this activity in 1982-83. We intend to again request institutional funding for 1983-84.

During 1981-82, various recruitment activities (limited by a lack of adequate funding) were conducted. UNM membership in the GRE Minority Student Locator Service and the WICHE Western Name Exchange was continued; several thousand minority students on these lists, primarily in the region, were sent information regarding UNM's graduate programs.

The "on-site" recruitment efforts, whereby UNM faculty and professional staff visit regional campuses, was also continued and visits were made during 1981-82 to twenty-nine regional universities with high minority enrollments. (See Table 4) Eleven UNM faculty and staff members conducted recruitment trips and it is estimated that several hundred student contacts were made. On-site recruitment is probably the most valuable recruitment method because of the contact made with faculty and staff at other campuses who can in turn recommend students in future years, and also because many of the students contacted are among those most motivated to seek out information on UNM.

Other recruitment activities have included mailing letters, brochures, and posters to approximately 1500-2000 faculty and staff (many of them minority) at other campuses; sending out press releases prior to each recruitment visit; follow-up correspondence by the Graduate Office and departments with students contacted on recruitment trips; personal contact with many individuals throughout the country; mailings to UNM juniors and seniors; etc.

While the recruitment effort was instituted to bring about higher minority graduate enrollment, it is well to keep in mind that most students contacted on recruitment trips (for obvious reasons) are non-

minority students and the activity probably leads to higher enrollment of those students.

IV. APPLICATIONS, ADMISSIONS, AND ENROLLMENT.

A. Applications and Admissions.

Information on applications for UNM graduate study by ethnicity, race, department, action, etc. has been compiled by the Graduate Office only since summer, 1980 and the first semester for which even minimally reliable information is available was spring, 1981. The only semesters for which comparative judgments could be made (surely erroneous due to the nature of the record keeping) are the spring semester and summer session of 1981 and 1982. This is obviously too limited a sample for adequate judgments to be made or proper conclusions to be reached since it is trends which should be determined. Additionally, data are available for only one fall semester (1981), the semester for which most students apply to enter graduate study.

Record-keeping on the number of applicants, ethnicity, sex, action taken, etc. is a time-consuming task as presently attempted and the data collected not as reliable as we would like. Given the present data collection method, and staff and time limitations, the task of analyzing and making judgments on applications will have to await further developments.

Admission data by semester are directly tied to information on applications and also not as accurate as desired.

B. Enrollment.

Enrollment of minority students in UNM graduate study is obviously the result of various factors including, but certainly not limited to, 1) the number of applications, 2) recruitment, 3) admission criteria and/or barriers, 4) admissions committees' attitudes, 5) demographics, 6) availability of financial aid, 7) the state of the economy, 8) institutional support, and 9) affirmative action policies and guidelines.

Enrollment data are also limited and occasionally unreliable. In looking at enrollment statistics, it is impossible to determine at which level those students are enrolled, whether or not they entered graduate study recently or have been graduate students for long periods, etc.

Concerning actual enrollment, it appears the data prior to about 1979, are somewhat inaccurate. Even in comparing statistics compiled by different individuals within the Graduate Office for recent years, it is obvious that there are problems. For example, enrollment shown on pages 10-13 of the 1980-81 Graduate Office report are at odds with the figures prepared for the affirmative action effort shown on pages 46-47. It is likely that enrollment statistics prepared by the office in previous years, particularly in regards to ethnicity, race, sex, etc. are also somewhat unreliable. However, for lack of better data, this section of this report must rely on available information.

Table 5 shows the graduate enrollment by ethnicity/race, sex, unit, college, etc., for the 1981 fall semester. The most striking

feature of these statistics is that women make up 55.1% of the graduate American citizen enrollment. A breakdown by sex of non-citizens is not available. Anglo women account for 43.5% of the total American citizen enrollment, a quite significant statistic since they make up approximately 26% of the state's population.

The fall, 1981 enrollment statistics for Blacks show a decrease of 14 for 1980, (from 52 to 38). The College of Education, with a decrease of 5 Black students (from 18 to 13), had the largest decrease. Architecture decreased from 2 to 1, Arts & Sciences from 10 to 8, Management from 2 to 1, Fine Arts and Nursing from 1 to 0, and Public Administration from 11 to 9. The number of American Indian students increased from 107 to 132 (an increase of 23.4%). Hispanics decreased from 546 to 525, a drop of 3.8%. Arts & Sciences decreased by 11 and Public Administration by 8. Overall, minorities decreased by 9, from 704 to 695. Overall enrollment increased by 55 (from 3662 to 3717).

Enrollment statistics fluctuate from year to year and few conclusions can be reached by studying the statistics for a given year or two. It is impossible to determine, for example, if a small decrease is due to a decrease in applications, admission rates or perhaps higher graduation or dropout rates the previous year, for a given group.

A complete analysis of affirmative action activity must rely on accurate and detailed statistics in applications, admissions and enrollment and then trends must be determined over a period of years. It is obvious that better record-keeping systems are needed.

V. ADVISING AND COUNSELING.

Approximately 400-500 student contacts were made during the year for purposes of advising/counseling. Some students, particularly G*POP fellows, were seen more than once. Although reasons for requesting assistance from the office spanned the entire spectrum of typical student problems, the largest number of requests were on Graduate Office procedures and financial aid.

VI. RETENTION.

A preliminary proposal dealing with retention of minorities in graduate study was prepared and submitted to F.I.P.S.E. but was not funded. The nature of the problem needs further study to determine appropriate responses. A brief retention study (discussions with 17 department chairs) was undertaken during the year and most felt that retention was not a problem. However, an extensive detailed, scientifically valid graduate student needs analysis, which should provide valuable information on various problems of minority students including retention, is planned by the office in 1982-83. The Public Administration intern in the office will have major responsibility for the study.

VII. FINANCIAL AID, G.A.'S, T.A.'S AND R.A.'S.

The problem cited by most department chairs during the interviews conducted for the retention study was the lack of adequate financial aid available for minority students. An examination of available financial aid revealed a bleak situation. The largest sources of financial aid 7.

available through the institution for UNM graduate students are in the form of assistantships and loans. The lack of fellowships is appalling. The largest fellowship programs are G*POP, with seventeen fellowships for 1982-83, and the bilingual program, with fourteen fellowships. The Graduate Office has available from institutional sources only one full fellowship, 50 graduate tuition fellowships, and five challenge assistantships. There are a few additional isolated fellowships in the university and a few UNM students receive fellowships from external sources.

The status of financial aid for UNM minority graduate students appears to be particularly bleak, especially regarding assistantships. A recent study found that in November, 1982, UNM employed 871 graduate assistants, and of this total only 69 (7.9%) were from underrepresented minority groups. Anglo women on assistantships numbered 307 (36.4%); non-citizens made up 12.1% of the assistants and Anglo males 41.9%. (See Table 6)

VIII. STATE FUNDED FELLOWSHIP PROPOSAL.

Initial work on the state funded fellowship proposal began in summer and fall, 1980 (meetings with UNM faculty and staff including Chris Garcia, Richard Griego, Tobias Duran, David Sanchez and others together with initial collection of studies and other materials), and the first draft was completed in spring, 1981. During spring and summer, meetings were held with administrators, faculty, and staff at the six New Mexico universities, and with BEF members, legislators, and others. After some

expected initial opposition to the proposal by a few individuals, some delays, and some minor "political" ferment and maneuvering over a period of months, the proposal was approved by all six New Mexico Graduate Deans, Chief Academic Officers, Presidents and Boards of Regents. Various rewrites, compromises, etc. went into the final draft. The proposal was presented to the BEF in early fall, 1981 and though not approved for funding, plans are to present the proposal again this year.

A revised draft of the proposal has been prepared and has received the approval and support of all six NM Graduate Deans. A "final perfect" draft was presented to Provost Hull and President Perovich in late July.

The proposal has also been submitted to thirty-seven foundations seeking matching funds. As of July, thirty-two foundations have responded and only two, Hearst and Atlantic Richfield have notified us they are reviewing the proposal.

IX. OTHER ACTIVITIES.

Other activities and involvement of the Assistant to the Dean during 1981-82 include 1) participation on the Board of the Southwest Hispanic Research Institute (SHRI), 2) membership on two Chicano Studies Committees, 3) membership on several Graduate Office committees, 4) mediation of personnel problems in the SWRCSE, 5) attendance at the national G*POP and the regional WICHE Western Name Exchange (WNE) meetings (was nominated for, and assured of election to, the WNE Board, but declined nomination due to perceived tenuousness of position in the Graduate Office), 6) initial study of a proposal for research on racial

prejudice in the Southwest with S.H.R.I. staff, 7) served as UNM contact on Sequoyah Fellowship received from the Association on American Indian Affairs, 8) prepared a new Graduate Office brochure, 9) had some press releases and newspaper articles prepared on the program, 10) set up recruitment for recruiters from other universities, 11) maintained dialogue with staff on hiring and affirmative action guidelines, 12) numerous phone calls, conversations, meetings, responses for information and various other tasks.

X. PROBLEMS AND RECOMMENDATIONS.

Few major problems have arisen during the past year with one notable exception. Since the beginning of the G*POP in fall, 1978 there have been at least two or three individuals in the office (in positions of some authority) whom it seems have resented the graduate affirmative action effort, have expressed some hostility, and have generally been less than cooperative. While this was not unique nor in itself much of a problem, a combination of this factor and other circumstances seem to have combined to create a quite difficult situation.

There had been an absence of strong leadership in the office and for the affirmative action effort for quite a long period since Dean Spolsky went on sabbatical eight months after the program began (July through December, 1979), returned for one semester, and left the university in the summer of 1980. The lack of a "permanent" Dean with a strong commitment to affirmative action during this period definitely impeded development of the activity. The affirmative action program was only a

half-time activity from 1978-1980, and was made a full time position effective fall, 1980, just after Dean Spolsky left the university. During the period 1979 through 1981 there was a high turnover in clerical and secretarial employees in the office. There were four different office managers during a period of about six months. From spring, 1980 through fall, 1981, five or six different secretarial employees were assigned to the G*POP and the affirmative action program. Over a period of about two years, many decisions were made in the office in terms of hiring and firing of employees, staff responsibilities, etc., which affected the affirmative action activity, but often with little or no consultation with the G*POP Director.

In June, 1981 Charlene McDermott was appointed Dean of the Graduate Office and during the summer of 1981 there was no Associate Dean and only one Assistant Dean (with no academic background), placing enormous demands and pressures on the new Dean; obviously an unfair situation for a new Dean who was expected to begin the difficult task of revitalizing the Graduate Office. During the summer of 1981 then the Dean's staff consisted of the G*POP Director and an Assistant Dean (neither of whom had academic appointments) and about seventeen clerical/secretarial employees (including work-study employees). This writer recalls there were only two or three minority clerical/secretarial employees (undergraduate work study students) during this period. Suffice it to say that a number of factors, perhaps including some which may not have been readily obvious nor observed by this writer, combined over a period of time to create a quite difficult and challenging problem in the office.

It does appear that the Dean and the new Associate Dean (appointed January, 1982 but who actually began to help resolve problems in the office in fall, 1981) have in large part settled the problem. Responsibility and staff functions in the office have been altered and clarified. Communications among the staff have made extraordinary gains. Staff cooperation with the affirmative action program has improved considerably. Joanne Henson, the secretary assigned to the affirmative action program in September, 1981 is efficient, professional, and cooperative, and Gwenn Cooka, the word processor operator, has provided highly valued assistance. New programs are being devised and implemented, and staff morale has improved considerably.

Other problems in the affirmative action effort of the office include a lack of institutional funding. It should be pointed out that the medical school affirmative action effort, with responsibility for various activities but which recruits only about 12 to 20 minority students per year from in-state, has an Assistant Dean, an Associate Director, a Recruiter, an Administrative Assistant, several secretaries and work-study employees, most of which are on institutional funds.

The Office of School Relations (responsible for undergraduate recruitment and other activities) has approximately five professional and four secretarial staff members and about five work-study students. I believe all permanent staff are on institutional funds. It would appear that the Office of School Relation's printing budget alone is more than the total budget of the Graduate Office affirmative action effort which consists of a Program Director and a part-time secretary. No institu-

tional funds have been allocated for supplies, materials, travel, etc. during its four years of existence. Although Dean McDermott provided \$7,000 for 1981-82 and is providing \$10,000 for 1982-83 from the COEA which accrues to the office from the U.S. Department of Education G*OP grant, there is a great need for additional funding to improve the effort. Other problems include a need for more secretarial assistance (perhaps a full time secretary would be appropriate).

Recommendations on record-keeping in the office, so as to be able to determine affirmative action progress, have been discussed with other staff. There continues to be a need for ethnic, racial, and sex information regarding applications, action taken, admissions, doctoral and masters level enrollment, degrees awarded, etc. Specific recommendations will be made soon.

TABLE 1. G*POP FUNDS AWARDED TO UNM
1978-79 to 1982-83

	<u>Institutional Grant</u>	<u>Fellowship Grant</u>		<u>Total</u>
		<u>Stipends</u>	<u>C.O.E.A.</u>	
1978-79	\$17,000	\$39,000	\$39,000	\$95,000
1979-80	27,211	78,000	78,000	183,211
1980-81	Extension of 79-80 grant	90,000	78,000	168,000
1981-82	---	84,375	73,125	157,500
1982-83	---	<u>76,500</u>	<u>66,300</u>	<u>142,800</u>
TOTAL	\$44,211	\$367,875	\$334,425	\$746,511

TABLE 2
UNM G*POP FELLOWSHIP RECIPIENTS
BY ETHNIC BACKGROUND, GENDER, AND DEPARTMENT
1978-81
(As of July, 1982)

	Black		Chicano		Other Hispanic		Native American		White		Total	
	M	F	M	F	M	F	M	F	M	F	M	F
Electrical & Comp. Engr.	1			1		1				4*	2	5*
Law	2	1	6	1							8	2
Mathematics/Statistics			1	2			1		3		2	5
Mechanical Engr.			1								1	0
Microbiology									2			2
Nuclear Engineering	1										1	
Physics	1						1		2*		1	3*
Psychology			1	1							1	1
TOTAL	5	1	9	5	1	0	1	1	0	11*	16	18*

*One Anglo female transferred from Physics to E.& C.E. on 8/81 and is counted twice.

Table 3. CURRENT AND FORMER UNM G*POP FELLOWS

(As of July, 1982)

<u>NAME OF FELLOW</u>	<u>TENURE BEGAN</u>	<u>PROGRAM AREA & DEGREE</u>	<u>COMPLETION DATE AND/OR PROGRESS OF STUDENT</u>
Donna T. Schultz ²	9-1-78	Elec. Engr., MS	Graduated MS 12/80 Working at Sandia
Lorraine S. Baca	9-1-78	Mathematics, Ph.D.	Graduated MS 5/80. Employed as Math. Analyst at Sandia Corporation.
Jean Baines	9-1-78	Law, J.D.	Graduated J.D. 5/81
Edward L. Chavez	9-1-78	Law, J.D.	Graduated J.D. 5/81
Patricia J. Duy	9-1-78	Elec. Engr., M.S.	12/82
David A. Graham	9-1-78	Law, J.D.	Graduated J.D. 5/81
Lynn Koehler	9-1-78	Elec. Engr., M.S.	12/82
Ernest O. Pacheco	9-1-78	Law, J.D.	Graduated J.D. 12/80
Diana L. Peppin	9-1-78	Mathematics, Ph.D.	left program 5/79
Elizia M. Roybal	9-1-79	Mathematics, M.S.	Received M.S. 12/80 in Nuc. Engr Working for Ariz. Publ. Serv.
Lenke E. Vietorisz	9-1-78	Mathematics, Ph.D.	left program 5-79
Margaret D. Jacobi	9-1-79	Mathematics, M.S.	Graduated M.S. 12/81
Linda L. Cole	9-1-79	Medical Science, Ph.D.	8/82
Judith M. Wallace	9-1-79	Medical Science, Ph.D.	Took leave-left program. Has plans to continue.
Charles E. Davis	9-1-79	Electrical Engr., M.S.	12/82
Mauricio Valencia	9-1-79	Electrical Engr., Ph.D.	Received M.S. 5/81 Working on Ph.D.

TABLE 3. (Cont'd.)

ABLE 3 (Cont'd.)

<u>NAME OF FELLOW</u>	<u>TENURE BEGIN</u>	<u>PROGRAM AREA & DEGREE</u>	<u>COMPLETION DATE AND/OR PROGRESS OF STUDENT</u>
Walter Nails	9-1-79	Law, J.D.	Received J.D. 5/82
Ruben S. Cortez	9-1-79	Law, J.D.	Received J.D. 5/82
Arthur Pablo	9-1-79	Mathematics, M.S.	Left Program 10/1/79
Joe F. Torres	1-21-80	Mathematics, M.S.	left Program 12/80
George E. Chavez	9-1-79	Law, J.D.	left program 8/81
Olene M. Evenmo	9-1-79	Physics, M.S.	left program 3/31/80
Janie K. Page	8-25-80	E. & C.E., M.S.	5/83
Kathleen L. Hood	9-1-79	Physics. M.S.	Received M.S. 5/82
Linda Baca	9-1-81	Psychology, Ph.D.	5/86
Martha Chavez	9-1-81	Elec. Comp.Engr.,M.S.	5/84
Gilbert Gonzales	9-1-81	Psychology, Ph.D.	left program 5/82
Frederick D. Jones	9-1-81	Law	5/84
Josie Medina	9-1-81	Law	left program 5/82
Philip E. Moya	9-1-81	Mech. Engr. M.S.	5/83
Joe Sedillo	9-1-81	Law	5/84
Avaine Strong	9-1-81	Physics	5/84
Eugene White	9-1-81	Chem. & Nuc. Engr., M.S.	left program 5/82

Table 4. COLLEGES AND UNIVERSITIES VISITED
BY UNM FACULTY AND STAFF DURING 1981-82 FOR
MINORITY RECRUITMENT

1. Metro State College (Denver)
2. University of Southern Colorado
3. Colorado College
4. University of Colorado (Boulder)
5. Eastern New Mexico University
6. New Mexico Highlands University
7. Texas Christian
8. University of Texas (San Antonio)
9. University of Texas Health Science Center (San Antonio)
10. Our Lady of the Lake College (San Antonio)
11. St. Mary's College (San Antonio)
12. Incarnate Word College (San Antonio)
13. Northern Arizona University
14. University of Arizona
15. Arizona State University
16. New Mexico State University
17. University of Texas, El Paso
18. California St. University, San Jose
19. California State University, Fresno
20. California State University, Sacramento
21. Ft. Lewis College (Durango)
22. Adams State College (Alamosa)
23. California State university, Los Angeles
24. California State University, Long Beach
25. California State University, Northridge
26. Northeastern Oklahoma State University (Tahlequah)
27. Oklahoma State University
28. Texas A. & I. University
29. Pan American University

TABLE 5 UNM GRADUATE ENROLLMENT BY MINORITY
STATUS, SEX, DEPARTMENT & COLLEGE,
(FALL, 1981)

GRADUATE UNITS	AMER. INDIAN				BLACK				HISPANIC				UNDERREPRESENTED MINORITIES*				ASIAN				WHITE				TOTAL STUDENTS
	MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
SCHOOL OF ARCH & PLANNING	(.0)	(.0)			1 (1.0)	(.0)			5 (5.1)	3 (3.1)			6 (6.1)	3 (3.1)			(.0)	(.0)			49 (50.0)	40 (40.8)	98		
ARTS & SCIENCES	10 (1.1)	5 (.5)	7 (0.7)	1 (0.1)	60 (6.3)	47 (5.0)	77 (8.1)	53 (5.6)	1 (.1)	5 (.5)	443 (46.7)	370 (39.0)	949												
American Studies	(.0)	3 (6.7)	(.0)	(.0)	4 (8.9)	1 (2.2)	4 (8.9)	4 (8.9)	(.0)	(.0)	12 (26.7)	25 (55.6)	45												
Anthropology	1 (1.1)	(.0)	(.0)	(.0)	4 (4.3)	1 (1.1)	5 (5.4)	1 (1.1)	(.0)	(.0)	42 (45.2)	45 (48.4)	93												
Biology	1 (1.1)	(.0)	(.0)	(.0)	3 (3.2)	3 (3.2)	4 (4.2)	3 (3.2)	(.0)	(.0)	56 (58.9)	32 (33.7)	95												
Chemistry	2 (4.4)	(.0)	(.0)	1 (2.2)	1 (2.2)	(.0)	3 (6.7)	1 (2.2)	(.0)	(.0)	27 (60.0)	14 (31.1)	45												
Comm. Disorders	(.0)	(.0)	(.0)	(.0)	(.0)	7 (13.2)	(.0)	7 (13.2)	(.0)	1 (1.9)	6 (11.3)	39 (73.6)	53												
Comp. Literature	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	2(100.)	(.0)	2												
Economics	(.0)	(.0)	(.0)	(.0)	3 (6.4)	2 (4.3)	3 (6.4)	2 (4.3)	(.0)	(.0)	31 (66.0)	11 (23.4)	47												
English	(.0)	(.0)	(.0)	(.0)	3 (4.9)	3 (5.0)	3 (4.9)	3 (4.9)	(.0)	(.0)	20 (32.8)	35 (57.4)	61												
Geography	(.0)	(.0)	(.0)	(.0)	(.0)	1 (6.3)	(.0)	1 (6.3)	(.0)	(.0)	10 (62.5)	5 (31.3)	16												
Geology	1 (1.7)	(.0)	1 (1.7)	(.0)	3 (5.1)	(.0)	5 (8.5)	(.0)	(.0)	(.0)	44 (74.6)	10 (16.9)	59												
History	(.0)	2 (2.7)	1 (1.4)	(.0)	9 (12.2)	1 (1.4)	10 (13.5)	3 (4.1)	(.0)	(.0)	33 (44.6)	28 (68.9)	74												
Ibero Amer Studies	(.0)	(.0)	(.0)	(.0)	2 (16.7)	4 (33.3)	2 (16.7)	4 (33.3)	(.0)	(.0)	2 (16.7)	4 (33.3)	12												
Latin Amer Studies	(.0)	(.0)	(.0)	(.0)	2 (15.4)	1 (7.7)	2 (15.4)	1 (7.7)	(.0)	1 (12.5)	3 (23.1)	7 (53.8)	13												
Linguistics	(.0)	(.0)	(.0)	(.0)	1 (12.5)	1 (12.5)	1 (12.5)	1 (12.5)	(.0)	2 (4.3)	1 (12.5)	4 (50.0)	8												
Math & Stat	(.0)	(.0)	(.0)	(.0)	1 (2.1)	1 (2.1)	1 (2.1)	(2.1)	(.0)	1 (1.9)	30 (63.8)	13 (27.7)	47												
Mod & Class Lang	(.0)	(.0)	(.0)	(.0)	11 (20.8)	13 (24.5)	11 (20.8)	13 (24.5)	(.0)	(.0)	5 (9.4)	23 (43.4)	53												
Philosophy	(.0)	(.0)	(.0)	(.0)	3 (8.6)	(.0)	3 (8.6)	(.0)	1 (0.8)	(.0)	19 (54.3)	13 (37.1)	35												
Physics & Astron	2 (3.2)	(.0)	2 (3.2)	(.0)	1 (0.8)	(.0)	5 (8.1)	(.0)	(.0)	(.0)	47 (75.8)	9 (14.5)	62												
Political Science	(.0)	(.0)	2 (9.5)	(.0)	3 (14.3)	1 (4.8)	5 (23.8)	1 (4.8)	(.0)	(.0)	10 (47.6)	5 (23.8)	21												
Psychology	2 (3.4)	(.0)	(.0)	(.0)	5 (8.6)	3 (5.2)	7 (12.1)	3 (5.2)	(.0)	(.0)	30 (51.7)	18 (31.0)	58												
Sociology	1 (4.8)	(.0)	(.0)	(.0)	1 (4.8)	3 (14.3)	2 (9.5)	3 (14.3)	(.0)	(.0)	3 (14.3)	13 (61.9)	21												
Speech Comm	(.0)	(.0)	1 (3.4)	(.0)	(.0)	1 (3.4)	1 (3.4)	1 (3.4)	(.0)	(.0)	10 (34.5)	17 (58.6)	29												
ANDERSON SCH OF MANAGEMENT	(.0)	3 (0.8)	1 (0.3)	(.0)	25 (6.6)	15 (4.0)	26 (6.9)	18 (4.7)	1 (0.3)	(.0)	212 (55.9)	122 (32.2)	379												
COLLEGE OF EDUC	24 (1.8)	65 (5.0)	3 (0.2)	10 (0.8)	93 (7.1)	182 (14.0)	120 (9.2)	257 (19.7)	1 (.08)	2 (0.2)	219 (16.8)	704 (54.1)	1302												
Art Education	(.0)	2 (5.7)	(.0)	(.0)	3 (8.6)	5 (14.3)	3 (8.6)	7 (20.0)	1 (2.9)	1 (2.9)	6 (17.1)	17 (48.6)	35												
Educ Adm'n	11 (5.8)	15 (7.8)	1 (0.5)	1 (0.5)	25 (13.2)	18 (9.5)	37 (19.6)	34 (18.0)	(.0)	(.0)	33 (17.5)	85 (45.0)	189												

TABLE 5 (Continued) UNM GRADUATE ENROLLMENT BY MINORITY (Cont'd)
STATUS, SEX, DEPARTMENT & COLLEGE,
(FALL, 1981)

GRADUATE UNITS	AMER. INDIAN		BLACK		HISPANIC		TOTAL UNDERREPRESENTED MINORITIES*				ASIAN		WHITE		TOTAL STUDENTS		
	MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE			FEMALE	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		No.	%
Elem Education	2 (1.0)	18 (8.6)	(.0)	1 (0.5)	10 (4.9)	59 (28.2)	12 (5.7)	78 (37.3)	(.0)	(.0)	9 (4.3)	110 (52.6)	209				
Educ Foundation	1 (1.0)	2 (2.1)	(.0)	(.0)	4 (4.1)	11 (11.3)	5 (5.2)	13 (13.4)	(.0)	(.0)	19 (19.6)	60 (61.9)	97				
Counselor Ed	4 (2.4)	11 (1.8)	(.0)	1 (6.5)	10 (5.9)	22 (12.9)	14 (8.2)	34 (20.0)	(.0)	(.0)	34 (20.0)	88 (51.8)	170				
Hlth, PE & Rec	2 (1.5)	5 (3.8)	(.0)	3 (2.3)	10 (7.5)	4 (3.0)	12 (9.0)	12 (9.0)	(.0)	(.0)	45 (33.8)	64 (48.1)	133				
Home Economics	(.0)	(.0)	(.0)	(.0)	(.0)	3 (15.8)	(.0)	3 (15.8)	(.0)	(.0)	(.0)	16 (84.2)	19				
Sec & Adult Tch'r Ed	3 (1.9)	8 (5.0)	1 (0.6)	2 (1.3)	19 (11.9)	19 (11.9)	23 (14.4)	29 (18.1)	(.0)	(.0)	39 (24.4)	69 (43.1)	160				
Business Ed	(.0)	(.0)	(.0)	(.0)	(.0)	1 (16.7)	(.0)	1 (16.7)	(.0)	(.0)	4 (67.0)	1 (16.7)	6				
Special Education	1 (0.4)	4 (1.4)	(.0)	2 (0.7)	12 (4.2)	40 (14.1)	13 (4.6)	46 (16.2)	(.0)	1 (0.4)	30 (10.6)	194 (68.3)	284				
COLLEGE OF ENGR	4 (1.5)	(.0)	5 (1.9)	(.0)	18 (6.7)	3 (1.1)	27 (10.1)	3 (1.1)	7 (2.6)	2 (0.7)	187 (70.0)	41 (15.4)	267				
Chem/Nucl Engr	(.0)	(.0)	3 (6.7)	(.0)	4 (8.9)	(.0)	7 (15.6)	(.0)	2 (4.4)	(.0)	31 (68.9)	5 (11.1)	45				
Civil Engr	2 (6.9)	(.0)	(.0)	(.0)	2 (6.9)	(.0)	4 (13.8)	(.0)	1 (3.4)	(.0)	21 (72.4)	3 (10.3)	29				
Computer Science	(.0)	(.0)	(.0)	(.0)	1 (1.4)	1 (1.4)	1 (1.4)	1 (1.4)	1 (1.4)	2 (2.9)	40 (58.0)	24 (34.8)	69				
Elec & Comput Engr	2 (2.1)	(.0)	2 (2.1)	(.0)	9 (9.6)	1 (1.1)	13 (13.8)	1 (1.1)	3 (3.2)	(.0)	71 (75.2)	6 (6.4)	94				
Mechanical Engr	(.0)	(.0)	(.0)	(.0)	2 (6.7)	1 (3.3)	2 (6.7)	1 (3.3)	(.0)	(.0)	24 (80.0)	3 (10.0)	30				
COLLEGE OF FINE ARTS	1 (0.6)	2 (1.2)	(.0)	(.0)	8 (4.8)	6 (3.6)	9 (5.4)	8 (4.8)	(.0)	(.0)	59 (35.8)	89 (53.9)	165				
Art	1 (0.8)	2 (1.6)	(.0)	(.0)	5 (4.0)	4 (3.2)	6 (4.8)	6 (4.8)	(.0)	(.0)	39 (31.5)	73 (58.9)	124				
Music/Music Ed	(.0)	(.0)	(.0)	(.0)	3 (9.1)	1 (3.0)	3 (9.1)	1 (3.0)	(.0)	(.0)	14 (42.4)	15 (45.4)	33				
Theatre Arts	(.0)	(.0)	(.0)	(.0)	(.0)	1 (12.5)	(.0)	1 (12.5)	(.0)	(.0)	6 (75.0)	1 (12.5)	8				
MEDICAL SCIENCES	(.0)	(.0)	(.0)	1 (2.5)	(.0)	3 (7.5)	(.0)	4 (10.0)	1 (2.5)	(.0)	14 (35.0)	22 (55.0)	40				
COLLEGE OF NURSING	1 (2.3)	2 (4.5)	(.0)	(.0)	(.0)	4 (9.1)	1 (2.3)	6 (13.6)	(.0)	(.0)	(.0)	37 (84.1)	44				
DIV/PUBLIC ADMIN	5 (2.7)	10 (5.4)	8 (4.3)	1 (0.5)	24 (13.0)	29 (15.7)	37 (20.0)	40 (21.6)	1 (0.5)	(.0)	42 (22.7)	65 (35.1)	185				
TOTALS	45 (1.3)	87 (2.5)	25 (0.7)	13 (0.4)	233 (6.8)	292 (8.5)	303 (8.8)	392 (11.4)	12 (0.3)	9 (0.3)	1225 (36.7)	1490 (43.5)	3429				
GRAND TOTAL															3717**		

* American Indians, Blacks, & Hispanics

** Grand Total Includes 288 non-citizens who are not counted in department and college totals.

BY ORGANIZATION, CITIZENSHIP
(NOVEMBER, 1981)

TOTAL
STUDENTS

GRADUATE UNITS	AMER. INDIAN				BLACK				HISPANIC				NON-CITIZENS				ASIAN				WHITE			
	MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		MALE		FEMALE	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
SCHOOL OF ARCH. & PLANNING	(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		9 (69.2)	4 (30.8)	9 (69.2)	4 (30.8)
ARTS & SCIENCES	(.0)		(.0)		3 (.6)	1 (.2)	14 (2.9)	14 (2.9)	40 (8.2)	13 (2.7)	(.0)	1 (.2)	236 (48.2)	169 (34.5)	293 (59.8)	197 (40.2)								
Amer. Studies	(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		(.0)		1 (25.0)	3 (75.0)	1 (25.0)	3 (75.0)
Anthropology	(.0)		(.0)		(.0)		(.0)		2 (4.3)		(.0)		3 (21.4)	9 (64.3)	3 (21.4)	11 (78.6)								
Biology	(.0)		(.0)		(.0)		1 (1.4)	(.0)	1 (1.4)	(.0)	(.0)		41 (59.4)	26 (37.7)	43 (62.3)	26 (37.7)								
Chemistry	(.0)		(.0)		(.0)	1 (2.0)	(.0)	(.0)	15 (30.0)	3 (6.0)	(.0)	(.0)	22 (44.0)	9 (18.0)	37 (74.0)	13 (26.0)								
Comm. Disorders	(.0)		(.0)		(.0)		(.0)	1 (25.0)	(.0)	(.0)	(.0)	(.0)	(.0)	3 (75.0)	(.0)	4 (100.0)								
Economics	(.0)		(.0)		(.0)		(.0)		1 (4.8)	(.0)	(.0)	(.0)	15 (71.4)	5 (23.8)	16 (76.2)	5 (23.8)								
English	(.0)		(.0)		(.0)		(.0)	1 (1.7)	3 (5.1)	1 (1.7)	(.0)	(.0)	27 (45.8)	27 (45.8)	30 (50.8)	29 (49.2)								
English Tutor Pgm	(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	5 (50.0)	5 (50.0)	5 (50.0)	5 (50.0)								
Geography	(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	2 (50.0)	2 (50.0)	2 (50.0)	2 (50.0)								
Geology	(.0)		(.0)		(.0)		(.0)		1 (2.9)	(.0)	(.0)	(.0)	28 (80.0)	6 (17.1)	29 (82.9)	6 (17.1)								
History	(.0)		(.0)		1 (3.6)	(.0)	2 (7.1)	(.0)	1 (3.6)	(.0)	(.0)	(.0)	10 (37.5)	14 (50.0)	14 (50.0)	14 (50.0)								
Latin Amer. Std.	(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)	1 (100.0)								
Linguistics	(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	(.0)	3 (100.0)	(.0)	3 (100.0)								
Math & Statistics	(.0)		(.0)		(.0)		1 (3.1)	(.0)	5 (15.6)	1 (3.1)	(.0)	1 (3.1)	19 (59.4)	5 (15.6)	25 (78.1)	7 (21.9)								
Mod. & Class Lang.	(.0)		(.0)		(.0)		6 (11.8)	10 (19.6)	5 (9.8)	6 (11.8)	(.0)	(.0)	6 (11.8)	18 (35.3)	17 (33.3)	34 (66.7)								
Philosophy	(.0)		(.0)		(.0)		1 (16.7)	(.0)	(.0)	(.0)	(.0)	(.0)	3 (50.0)	2 (33.3)	4 (66.7)	2 (33.3)								
Physics & Astronomy	(.0)		(.0)		1 (2.9)	(.0)	(.0)	(.0)	6 (17.1)	(.0)	(.0)	(.0)	25 (71.4)	3 (8.6)	32 (91.4)	3 (8.6)								
Political Science	(.0)		(.0)		1 (10.0)	(.0)	2 (20.0)	(.0)	1 (10.0)	(.0)	(.0)	(.0)	4 (40.0)	2 (20.0)	8 (80.0)	2 (20.0)								
Psychology	(.0)		(.0)		(.0)		1 (3.4)	(.0)	(.0)	(.0)	(.0)	(.0)	17 (58.6)	11 (37.9)	18 (62.1)	11 (37.9)								
Sociology	(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	2 (22.2)	(.0)	(.0)	1 (11.1)	6 (66.7)	1 (11.1)	8 (88.9)								
Speech Comm.	(.0)		(.0)		(.0)		(.0)	(.0)	1 (6.7)	(.0)	(.0)	(.0)	7 (46.7)	7 (46.7)	8 (53.3)	7 (46.7)								
ANDERSON SCHOOL OF MANAGEMENT	(.0)		(.0)		(.0)		3 (7.7)	1 (2.6)	1 (2.6)	(.0)	2 (5.1)	(.0)	14 (35.9)	18 (46.2)	20 (51.3)	19 (48.7)								
COLLEGE OF EDUC.	2 (1.6)	(.0)	1 (.8)	1 (.8)	3 (2.3)	7 (5.5)	3 (2.3)	1 (.8)	2 (1.6)	(.0)	41 (32.0)	67 (52.3)	52 (40.6)	76 (59.4)										
Art Education	(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	(.0)	4 (100.0)	(.0)	4 (100.0)								
Educational Adm.	(.0)		(.0)		(.0)		1 (14.3)	(.0)	1 (14.3)	(.0)	(.0)	(.0)	4 (57.1)	1 (14.3)	6 (85.7)	1 (14.3)								
Elem. Education	2 (7.7)	(.0)	1 (3.8)	(.0)	1 (3.8)	3 (11.5)	1 (3.8)	1 (3.8)	(.0)	(.0)	(.0)	2 (7.7)	15 (57.7)	7 (26.9)	19 (73.1)									
Educ. Foundations	(.0)		(.0)		(.0)		(.0)	2 (22.2)	(.0)	(.0)	1 (11.1)	(.0)	2 (22.2)	4 (44.4)	3 (33.3)	6 (66.7)								
Counselor Education	(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	2 (66.7)	1 (33.3)	2 (66.7)	1 (33.3)								
HPER	(.0)		(.0)		1 (1.9)		1 (1.9)	1 (1.9)	1 (1.9)	(.0)	1 (1.9)	(.0)	22 (42.3)	25 (48.1)	25 (48.1)	27 (51.9)								
Home Economics	(.0)		(.0)		(.0)		(.0)		(.0)		(.0)	(.0)	(.0)	2 (100.0)	(.0)	2 (100.0)								

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Table 6. (Continued)

 GRAD STUDENT EMPLOYEES SEX/ETHNIC SUMMARY REPORT
 BY ORGANIZATION, CITIZENSHIP
 (NOVEMBER 1981)

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GRADUATE UNITS	AMER. INDIAN		BLACK		HISPANIC		NON-CITIZENS		ASIAN		WHITE		TOTAL STUDENTS	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Secondary Ed.	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	7 (46.7)	8 (53.3)	7 (46.7)	8 (53.3)
NM Research & Study	(.0)	(.0)	(.0)	(.0)	(.0)	1 (33.3)	(.0)	(.0)	(.0)	(.0)	1 (33.3)	1 (33.3)	1 (33.3)	2 (66.7)
Special Education	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (14.3)	6 (85.7)	1 (14.3)	6 (85.7)
COLLEGE OF ENGR	(.0)	(.0)	(.0)	(.0)	2 (2.1)	1 (1.0)	49 (50.5)	1 (1.0)	3 (3.1)	(.0)	29 (29.9)	12 (12.4)	83 (85.6)	14 (14.4)
Chem/Nucl Engr	(.0)	(.0)	(.0)	(.0)	2 (16.7)	(.0)	8 (66.7)	(.0)	(.0)	(.0)	2 (16.7)	(.0)	12 (100.0)	(.0)
Civil Engr	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	3 (50.0)	(.0)	(.0)	(.0)	2 (33.3)	1 (16.7)	5 (83.3)	1 (16.7)
Elec. & Comput Engr	(.0)	(.0)	(.0)	(.0)	(.0)	1 (4.2)	16 (66.7)	(.0)	(.0)	(.0)	4 (16.7)	3 (12.5)	20 (83.3)	4 (16.7)
Mechanical Engr	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	4 (40.0)	(.0)	2 (20.0)	(.0)	1 (10.0)	3 (30.0)	7 (70.0)	3 (30.0)
Bureau Engr. Resch	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	17 (50.0)	1 (2.9)	1 (2.9)	(.0)	14 (41.2)	1 (2.9)	32 (94.1)	2 (5.9)
Computer Science	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (10.0)	(.0)	(.0)	(.0)	5 (50.0)	4 (40.0)	6 (60.0)	4 (40.0)
Instl. of Meteor.	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)	1 (100.0)	(.0)
COLLEGE OF FINE ARTS	(.0)	(.0)	(.0)	(.0)	4 (5.6)	2 (2.8)	1 (1.4)	1 (1.4)	(.0)	1 (1.4)	30 (42.3)	33 (46.5)	35 (49.3)	36 (50.7)
Art	(.0)	(.0)	(.0)	(.0)	3 (6.0)	1 (2.0)	1 (2.0)	1 (2.0)	(.0)	1 (2.0)	18 (36.0)	25 (50.0)	22 (44.0)	28 (56.0)
Music	(.0)	(.0)	(.0)	(.0)	1 (6.3)	(.0)	(.0)	(.0)	(.0)	(.0)	8 (50.0)	7 (43.8)	9 (56.3)	7 (43.7)
Theatre Arts	(.0)	(.0)	(.0)	(.0)	(.0)	1 (20.0)	(.0)	(.0)	(.0)	(.0)	4 (80.0)	1 (20.0)	4 (80.0)	1 (20.0)
MEDICAL SCIENCES	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (7.1)	(.0)	5 (35.7)	8 (57.1)	6 (42.9)	8 (57.1)
Biochemstry	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (33.3)	2 (66.7)	1 (33.3)	2 (66.7)
Tropical/Geo. Med.	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)	1 (100.0)	(.0)
Microbiology	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	2 (28.6)	5 (71.4)	2 (28.6)	5 (71.4)
Pathology	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (33.3)	(.0)	1 (33.3)	1 (33.3)	2 (66.7)	1 (33.3)
ALBUQ URBAN OBSER	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)	1 (100.0)	(.0)
AFRO-AMER STUDIES	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)
NATIVE AMER STUDIES	1 (100.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	1 (100.0)	(.0)
WOMEN'S STUDIES	(.0)	1 (33.3)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	(.0)	2 (66.7)	(.0)	3 (100.0)



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Graduate Student Association
of
The University of New Mexico

Annual Report to the Graduate School
. 1981-1982

presented by

Ellen Foppes
GSA President 1981-1982

This report is submitted in fulfillment of the President's obligation to the Graduate School and the Graduate Student Association. This requirement is one of the most important aspects of the GSA operational documents in that it provides for, and requires a continuity between administrations.

The GSA is responsible for essentially every non-academic opportunity available to UNM graduate and law students and represents those students in the university and state communities. We have worked toward encouraging significant student responsibility and participation in university policy and decision making; a role traditionally filled by faculty and administration.

I. GSA AND THE UNIVERSITY COMMUNITY

The GSA's role in the university this past year has been one of promoting communication and cooperation between students, faculty, administrators and the UNM Regents. My concept of the GSA Presidency has been one of keeping informed of as many activities as possible. This of course, necessitated my membership on several university committees. Among them:

- UNM Board Of Regents
- Popejoy Hall Board
- UNM Honorary Degree Committee
- Gubernatorial Day Committee
- Facilities Use Committee
- NM Union Board

I have also periodically met with the UNM Regents, President, Vice Presidents, faculty, and undergraduate student leaders in order to exchange information and establish lines of communication.

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Graduate Student Association
of
The University of New Mexico

Annual Report to the Graduate School
. 1981-1982

presented by

Ellen Foppes
GSA President 1981-1982

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was to help people to become more familiar with GSA and what it offered, to make the organization and our efforts more visible and to generally stimulate graduate student interest and involvement in GSA.

In addition, students with specific problems and grievances have been helped in a variety of ways. It has been my policy to deal with these matters in an informal, low-key manner wherever possible and successful resolution was realized in many cases.

The GSA supported the GA - TA Committee and their efforts to attain a more equitable and standard system for graduate, teaching, research and special assistants. Through its efforts, a more realistic salary scale for GAs and TAs has been accomplished.

My activities in the NM Union Board has involved the design and development of the Master Plan for the NM Student Union. Significantly, in the revision of the NM Union Board Constitution, I worked for and was successful in attaining greater representation for the GSA.

So too, through my efforts on the Popejoy Hall Board, the graduate students now enjoy a 75% discount on seasonal tickets and a 50% on regular tickets. A substantial benefit over last year's service and the proposed 1982-83 rates.

The GSA worked closely with the University Library Committee, administration, and library staff in its efforts to improve and expand the university library and its facilities. The potential of an effective student lobby was realized in the 1981 New Mexico Legislative Session when the GSA combined its efforts with the ASUNM in requesting more library funding from the State Legislature. It will be some time before the library will be adequate for all graduate and law education but the GSA must continue to apply pressure wherever possible.

The GSA participated in supporting the UNM Child Care Co-op during a critical phase of its existence. In the midst of remodelling plans for Mesa Vista Hall, the Co-op's current residence, the fate of the Child Care Co-op was undecided. As President, I actively worked towards preserving the Child Care Co-op and its service for the university community in meetings with George O'Neil, Child Care Co-op Director, administrators and individual Regents. Success in these endeavors has ensured the continuation and placement of the Child Care Co-op in new facilities.

II. GSA FEE INCREASE

In April 1981, the Graduate Student Association and the graduate student body at large passed a GSA fee increase. An increase from its present \$11/person/semester, a figure that has remained in existence since GSA's inception in 1969, to \$15/person/semester. This fee increase proposal included a proviso that \$2/person/semester of this raise would be returned directly to all departments to be added to the present \$1/person/semester for a total of \$3/person/semester. In the past the amount returned was insufficient for many departments to perform any significant activity, especially in departments with smaller numbers of graduate students.

Even though a fee increase was overwhelmingly approved by both GSA Council and the graduate student body at large in the 1981 General Election, the UNM administration was opposed to implementing the increase. As GSA President, I worked on both a formal and informal basis with UNM Vice Presidents and the UNM Board of Regents in order to resolve administrative objections. After several meetings with administrative officials with no resolution in sight, GSA resolved to take the issue to the UNM Board of Regents directly. I then began an extensive yet informal lobbying effort. These efforts were repaid by having the Regents approve the GSA fee increase, subject to BEF approval, beginning with the Fall 1983 session.

III. GSA BUDGET

I would like to echo the views of my predecessor Paul Kruse regarding this matter in that "As GSA continues to grow and become more professional its procedures must become more formal and less subjective." The Graduate Student Association has a large commitment to its constituents to provide quality goods and services whenever and wherever possible. We can no longer fund organizations for entertainment and refreshments, nor can we base our funding upon criteria such as: the fact that there is money available to be given out so therefore we should give it out; that an organization received funds in the past and should therefore continue to receive it; the subjective decision that some organizations should not have to compete with other organizations to receive funding for items normally covered by the Student Research Allocations Committee and Special Speakers and Projects Committee and so therefore funded in the GSA Budget; and finally personal opinions regarding specific organizations and individuals.

In view of the problems that had arisen during the formation of the budget in this and in past years, it became obvious that drastic changes were needed. As a result of these demands, I appointed

a special committee to identify the outstanding problems and to prepare a formalized budget process and time guideline to ensure a fair and objective budget process takes place. This committee is due to present its findings in the Fall of 1982.

IV. GSA WORD PROCESSOR DEPARTMENT

Upon entering the office of President, I was confronted with a crisis regarding the Word Processor. The 1981-82 GSA Budget had failed to allocate funding for the Word Processor. In an effort to continue this service, GSA gave the Word Processor autonomy as a separate department within GSA under the direction of Mona Montano and transferred its reserve funding to that department. Through the efforts of Mona Montano and Waleed Ashoo of the ASUNM Duplicating Center, the GSA Word Processor Department expanded its facilities, output and capabilities. However, GSA Council voted that GSA should endeavor to "get itself out of the word processor business." In so doing, I entered into negotiations with Waleed Ashoo of the ASUNM Duplicating Center, for the purpose of transferring the GSA Word Processor Department to the ASUNM Duplicating Center in exchange for continued graduate student discount rates in using the Word Processor service. Success was met in May when the transfer was accomplished.

V. FARC - FINANCIAL AID RETENTION CAMPAIGN

A major concern of the GSA this past year has been the proposed cut in federal financial aid to graduate and law students. In response to this threat, the GSA undertook an extensive campaign effort, organized by Richard Holden, to encourage graduate and law students to petition, write and call their respective representatives in order to voice their opinions and concerns. The response to this campaign was quite encouraging.

As GSA President, I felt an obligation to communicate to citizens and legislators of New Mexico about higher education and the essential need for financial aid in order to provide for quality leaders and knowledge in the future. In attempting to fulfill this obligation, I spoke to New Mexico legislators, representatives, Congressmen and various civic groups. I also spoke on KUNM in various radio broadcasts regarding this issue. In addition, I sent letters to representatives stating GSA's position and personally lobbied New Mexico Congressmen regarding this matter.

VI. GSA AND OTHER GRADUATE STUDENT ORGANIZATIONS

We have exchanged newsletters and other information with approximately twenty-five graduate student organizations at other universities across the country. Advice on formation of graduate student governments has been requested by approximately six universities. Whenever possible, I have personally visited other universities and met with the student leaders in order to exchange information and experiences.

VII. RECOMMENDATIONS

As is sometimes customary, I have a few recommendations for the next GSA administration. First, and foremost, that a formalized budget procedure be established in the GSA Constitution. Next, that for the sake of continuity, past committee members be contacted in order to see if they wish to continue in that capacity. In addition, I feel that continued pressure and lobbying from the GSA for improved services and facilities for the library is essential. Finally, and the most difficult perhaps, is to get more input from the general graduate student body. Only through more communication between the students and their Council representatives and officers will the Graduate Student Association better serve its constituents at the University of New Mexico.

In sum, I wish to thank Debbie Tryon, GSA Secretary; Mona Montano, GSA Word Processor Supervisor; Dean Charlene McDermott of the Graduate School and Mike Finnie, GSA Chairperson for all of their time, effort, patience and enthusiasm.

The Report of the Women Studies Program
July 1, 1981 - June 30, 1982
Ann S. Nihlen, Coordinator

This year marks the 10th anniversary of the Women Studies Program at the University of New Mexico. This event distinguishes us as one of the oldest programs in the nation. We are very proud of this fact, and the long history it represents. The University should be proud as well, for we bring recognition to this campus in the areas of sex equity, affirmative action and a broad vision of education for the University as well as the city and state. Our time this year focused on this important anniversary and we held two public events to note and celebrate the decade. In October we hosted a dinner and an evening of women's musical and theatrical entertainment. Almost 100 people came to help us raise funds for a special film for International Women's Day and to celebrate the beginning of our 10th year.

The following February we invited the University and Albuquerque community to a Decade celebration at the downtown YWCA. Students and instructors in the Program prepared the food; there were speeches and many salutes to a fine program and its history. Dr. Gail Baker, the first Coordinator, reminisced on her early years in the Program as did many other former and current students and staff in the Program. Dr. Ann Nihlen, the Coordinator, tried to present an overview of our past for the audience. Each person who spoke, whether Program founders, such

as Dr. Gail Baker, and Dr. Sharon Barba, or students currently enrolled in the courses addressed the meaning the Program and its courses had for them. From many perspectives we learned that Women Studies served many people, as job incentive, as intellectual stimulus, and as career choice.

The Mayor of Albuquerque, Mr. Harry Kinney spoke briefly on the importance for the entire community of having such an institution as Women Studies. We appreciated his support as a sign that the city as well as the University was behind us.

This year was marked by several important additions to the Program in addition to several changes. Dr. Helen Bannan was brought in this Fall as Assistant Director of Academic Programing for the Honors Program and Women Studies. A long time friend of the Program she was able to immediately begin the academic advisement and counseling of students so sorely needed here. She has been busy all year with our students, as well as teaching a special individual study seminar on Women and Work. Her Brown Bag lecture with the students was an exiting affair.

Dr. Ann Nihlen, the Coordinator, in January asked for a partial year's leave of absence from Women Studies in order to complete some research and writing. The leave was granted, though at 50% leave of absence. We have hired Dr. Helen Bannan to be the Acting Coordinator and the Program unanimously endorses this slection. She will focus her activities on one of her

major strengths--curriculum development and committee work leading to a minor in Women Studies.

Our half-time instructor, Ms. Mary Adams Trujillo was rehired after a Program review of her classes, student evaluations and activities in Women Studies. She will teach classes next year, work on the Teaching Seminar and sit on the Women Studies Committee. We are very happy she will be with us another year.

The new secretary, Ms. Yolanda Moya joined us in November and has organized the office and support staff into an efficient and pleasant unit. She brings office management and personnel skills with her into Women Studies.

This year Women Studies participated in three different conferences, two in New Mexico and one in California. In the Fall we journeyed to Las Cruces and New Mexico State University for the 2nd annual New Mexico Women Studies Conference. Dr. Nihlen, Dr. Bannan, Ms. Adams Trujillo, and Ms. Trisha Franzen all presented papers and lead symposia for this day long conference. Last year when we hosted the first conference we had no idea how large and popular it would become. Teachers from the public schools, as well as faculty and students from colleges and universities from around the state, attended. The next conference is scheduled to be held in Las Vegas at Highlands University in late October.

This Spring we co-sponsored a very special event. Entitled "A Healing Arts Festival for Women" it drew over 600 women to the campus for a two day series of workshops and seminars sur-

rounding the issue of health as it affects women's lives and how society responds.

This Summer Ms. Junella Haynes, a part-time instructor in the Program who taught the course American Indian Women will represent the Program at the National Women Studies Association 4th annual conference in Humboldt State University in Eureka, California. She will bring back a report to us on the current status of this important organization.

This Fall we are pleased to co-sponsor two important conferences the first on Women and Chemical Dependency with the National Council on Alcohol and in December a conference honoring the anniversary of Santa Teresa. The latter event will be a series of symposia covering her life and literary works. We are co-sponsoring this with the Departments of Philosophy and Modern Languages as well as the School of Graduate Studies.

This year we offered 19 courses during the year, with one for Summer. In addition the Program cross-listed 8 courses taught by faculty from around the campus. Students seem to be more and more interested in the Program and our enrollments are rising slightly, a good indication in a period of decline throughout Arts and Sciences.

This year we continued the series of Brown Bag lectures that we co-sponsor with the Women's Center. Eleven women spoke on topics such as rape, mothers and daughters, working

women, contemporary women poets, and women and athletics. These continue to be increasingly popular with audiences composed of staff, faculty, and students: sometimes entire classes from around the University. The attendance averaged about 30-40 for each talk. (Flyers in Appendix)

An interesting survey was generated out of one of our classes, Heterosexism and the Oppression of Women. Ms. Beth Morris and Ms. Trisha Franzen, the instructors, helped students develop and administer a survey on New Mexican Lesbians. Over 300 women responded and generated substantial data that the compilers will use at a later date. This is a good example of how to teach research skills in a very pragmatic manner in the midst of an academically rigorous course.

We are pleased to announce that, in conjunction with the Department of Educational Foundations we have developed a focus in Women Studies in the MA Program. Faculty from the Department have long sought some codification of the courses we all teach through the unit and this affords an opportunity for all of us to work together with students. It will begin this Fall, and we will add some new courses the following year. See Appendix for a copy of the flyer.

The Research and Archives Library for Women Studies is pleased to finally open its doors with its series of journals and research notes as well as an archive full of historical documents on Women Studies and the women's movement in general.

See Appendix for a copy of our first announcement.

Our 10th year has been distinguished by calmness and resolve, by celebration at our past and determination for the future. We have good staff, excellent courses and a committed student body. We have widespread support from the University and Albuquerque community as we plan our goals for the next decade.

contents:

SEPT. 30

"FREDA KAHLO" SLIDE SHOW - KYLE FIORE

OCT. 14

"LA CHICANA" FILM - BEVERLY SANCHEZ-PADILLA

OCT. 28

RACISM IN THE WOMEN'S MOVEMENT - MARY ADAMS TRUJILLO

NOV. 11

CONTEMPORARY WOMEN POETS - ESSENTIAL RESOURCES

NOV. 25

WOMEN AND ATHLETICS - KAY MORGAN

**"BROWN BAG" by
Women's Center &
Women Studies**

TIME: NOON - 1:00 AT: UNM WOMEN'S CENTER
1824 LAS LOMAS N.E.

BROWN BAG SERIES

January 27

"Domestic Violence"
Gloria de Tevis,
Executive Director, Shelter
for Victims of Domestic Violence

February 10

"Rape Awareness and Protection"
"Rape Crisis" Center - Staff

February 24

"Body Image"
Jane Einhorn, Counselor, Albuquerque Counseling Cooperative

March 10

"Mothers and Daughters"
Mary Adams-Trujillo, Instructor, Women Studies

March 24

"New Mexico Lesbian Survey"
Patricia Franzen, Mootree Press, former instructor,
Women Studies

April 7

"Working Women"
Helen Bannan, Central Honors
Program and Women Studies

For further information
call:
Women's Center - 277-3716
or
Women Studies - 277-3854

TIME: 12:00 - 1:00 p.m.

PLACE: Women's Center
1824 Las Lomas N.E.

PLEASE JOIN US!

MASTER OF ARTS DEGREE IN EDUCATIONAL FOUNDATIONS with a concentration in WOMEN'S STUDIES

The Master's Degree in Educational Foundations with a concentration in Women's Studies requires a minimum of 32 hours. Of this number, 18 hours must be in Educational Foundations and 15 hours may be in one or more other departments or in Educational Foundations. Of the 18 hours required in Educational Foundations, 12 hours are specified courses and 6 hours are electives.

The concentration attempts to strike a balance between flexibility and specialization. With the advice of the candidate's advisor, candidates should select courses which focus on women and which also contribute to the candidate's overall preparation. A wide variety of possibilities exist.

An important feature of this concentration is the emphasis on research and life span development. This may be one of the concentrations in the country that has this focus.

For further information contact:

Dr. Albert W. Vogel, Chairperson
Educational Foundations
College of Education
University of New Mexico
Albuquerque, New Mexico 87131

Telephone: (505) 277-5141

Courses required by the Department

- EF 403 Principles of Human Development
or
EF 410 Principles of Classroom Learning
- EF 500 Research Applications to Educ.
or
EF 501 Fundamental Stats. in Educ. I
- EF 415/515 Philosophies of Education
or
EF 411 History of American Education
or
EF 412 History of Education
- EF 421 Sociology of Education
or
EF 422 Education and Anthropology

Courses in the planning stage

- EF 4xx Introduction to Women's Studies
- EF 5xx Sex Role Development and Research
- EF 5xx Seminar in Life-Span Development

Other Departmental offerings of interest

- EF 487 Sexism in Education
- EF 503 Seminar in Human Growth & Develop.
- EF 486 Psychological Development of Women

Additional Departmental offerings of interest

Courses in statistical design and analysis, program evaluation, computer applications, multiple regression techniques, qualitative or quantitative research, multiple dependent measures, history, philosophy and comparative education, sociology and anthropology of education, library/media, courses with a multi-cultural emphasis, seminars in human growth and learning, and linguistics.

Offerings in other departments

As noted in the requirements above, 15 hours of appropriate work may be taken outside of the Department of Educational Foundations. This work may be done in one department or several. Courses in this category are too varied and numerous to list but would include courses such as Anthro 341 - Biosocial Bases of Sex Roles; Economics 335 - The Economics of Health; History 315 - History of Women from Ancient Times to the Enlightened; and Health 420 - Teaching Human Sexuality. This by no means exhausts the list.



GENERAL STUDIES READING ROOM

The Mason Studies Reading Room, Mason Hall 237, is a resource center for people involved in feminist research. It is one of a few places in New Mexico where the major feminist journals are available all in one location. In addition, there are books and periodicals filed which provide supplementary materials of a fairly broad interest.

Our goals have been to begin to collect archival materials, to increase our collection, and to provide a comfortable atmosphere for the feminist research community. To facilitate these goals, we are asking for the community's help. If you have materials which would enhance our collection, we ask that you contribute them to the Reading Room. For example, each semester we receive a list of articles in journals, papers, and research in Women Studies. We would like to see that information made available to other women in our community. The Reading Room is the perfect place for that. We would also like to see that you're thinking your books over, or taking all the books and magazines you have and donating them to us.

Finally, we're doing, and the librarians are doing, is to encourage your responses and participation in the process. We're interested in what you're doing, and we're interested in what you're doing. We're interested in what you're doing, and we're interested in what you're doing. We're interested in what you're doing, and we're interested in what you're doing.

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THE REPORT OF THE
DIVISION OF CONTINUING EDUCATION
AND
COMMUNITY SERVICES

JULY 1, 1981 - JUNE 30, 1982

Dr. Rupert A. Trujillo, Dean

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DIVISION STAFF

Division personnel as of July 1, 1981, consists of the following individuals:

Rupert A. Trujillo	Dean
Nate Archuleta	Director, HSST/CDA
Robert Barela	Conference Coordinator
Mary Bullock	Registrar
Victoria Burke	Clerical Specialist V
Christine Calcutt	Clerical Specialist V
Deborah Corrao	Clerical Specialist IV
Terry Double	Conference Coördinator
Mary Evilsizer	Staff Assistant
Emily Gómez	Clerical Specialist II
Laurie Kastelic	Clerical Specialist V
Carmen Maestas	Clerical Specialist V
Anthony Oliver	Director, Credit Programs
Patricia Probst	Clerical Specialist IV
Mary Sanchez	Clerical Specialist V
Mary Sedillo	Clerical Specialist IV
Ronald Shibata	Director, Business Office/ Operations
Paul Suozzi	Special Projects
Roland Tovar	Program Manager/Conferences and Institutes

Cynthia Turowsky	Clerical Specialist IV
Sandra Valdez	Administrative Secretary
Eva Valenzuela	Clerical Specialist IV
Joel White	Director, Community College

Terminations--Transfers--Resignations

Patricia Hauser, Assistant Dean, July 1, 1981
 Cheryl Delbeck, Clerical Specialist IV, July 24, 1981
 Noline Fanning, Clerical Specialist IV, September 11, 1981
 Sally Solomon, Program Specialist, September 30, 1981
 Virginia Ramirez, CDA Specialist, October 6, 1981
 Julia Baca, Clerical Specialist IV, January 22, 1982
 Susan Farber, Program Specialist, January 29, 1982
 Rosemary Chavez, Clerical Specialist V, April 2, 1982
 Bruce Allen, Director/Harwood, January 29, 1982
 Betty Cruz, Clerical Specialist V, April 16, 1982
 Elida Garcia, CDA Specialist, May 15, 1982
 Barbara Quintana, CDA Specialist, May 15, 1982
 Seles Padilla, CDA Specialist, May 15, 1982
 Deborah Suttie, Clerical Specialist IV, May 25, 1982

Promotions

Victoria Burke, promoted from Clerical Specialist IV
 to Clerical Specialist V.

COMMUNITY EDUCATION COMMITTEE CHARGE

"Community Education Committee: The Community Education Committee has responsibility for formulating and maintaining the general policies regarding branch campuses and undergraduate resident centers, and Continuing Education programs throughout the state, the Non-Degree Program, the Independent Study Program, and the Community College. The Committee is specifically charged with the study of proper objectives of junior college level academic programs which are or may in the future be conducted by the University of New Mexico, and the kinds of academic curricula needed to achieve these objectives. The Committee shall also be concerned with the policy and scope of the community education/service programs of the University, as well as the operational policies of the University properties associated with the continuing education and community education/services programs, and other matters worthy of attention. The Committee evaluates budgetary policy and operation of the Division of Continuing Education and Community Services and advises the Associate Provost for Community Education on these matters. It is also a function of the Committee to advise the Associate Provost for Community Education in regard to any new appointment of a Dean of the Division of Continuing Education and Community Services.

Nine faculty members, one branch faculty member, including chairperson, nominated by the Community Education Committee members; also two student members; also four community representatives recommended by the Associate Provost for Community Education and approved by the Faculty Senate; also the Associate Provost for Community Education, the Dean and Associate Dean of the Division of Continuing Education and Community Services, the Dean of Library Services, the Dean of Admissions and Records, the Branch College Directors, ex officio."

Standing Committee membership for the 1981-1982 fiscal year consisted of the following:

Chairperson

Pat Duphorne, Nursing

Faculty Representatives

Jon Aase, Pediatrics

Greg Bowes, SATE

Martin Bradshaw, Engineering

Robin Meize-Grochowski, Nursing

Geri Rhodes, Valencia Branch

Susan Roehrig, Physical Therapy

Mary Margaret Smith, Home Economics (Semester I)

Rod Wagoner, College of Education

Joe Zavadil, English

Student Representatives

Patricia Good

Community Representatives

Peter Chestnut, Chamber of Commerce

Leo Maes, Department of Human Services

Abel McBride, Albuquerque Public Schools

Ex-Officio Representatives

Alex Sanchez, Associate Provost for Community Education

Paul Vassallo, Dean, Library Services

Robert Weaver, Dean, Admissions and Records

Rupert Trujillo, Dean, Division of Continuing
Education and Community Services

ANNUAL REPORT OF THE COMMUNITY EDUCATION COMMITTEE 1981-1982

Members:

Jon Aase, Pediatrics	Mack Homestead, Library
Greg Bowes, SATE	Susan Lynch, Associate
Martin Bradshaw, Engineering	Provost's Office
Pat Duphorne, Nursing	Herb Lyon, Los Alamos Branch
Robin-Meize Grochowski, Nursing	Leo Maes, Department of
Geri Rhodes, Valencia Branch	Human Services
Susan Roehrig, Physical Therapy	Abel McBride, Albuquerque
Mary Margaret Smith, Home Economics	Public Schools
Rod Wagoner, College of Education	Tony Oliver, Continuing
Joe Zavadil, English	Education
Patricia Good, Student	John Phillips, Gallup Branch
Jim Acosta, Admissions & Records	Alex Sanchez, Associate
Peter Chestnut, Chamber of Commerce	Provost for Community Educ.
Alice Clark, Library	Omero Suarez, Valencia Branch
Ilse Gay, Fine Arts	Rupert Trujillo, Continuing
	Education
	Robert Weaver, Admissions &
	Records

Goals:

1. To carry out liaison activities associated with Continuing Education.
2. To review and develop Branch College policies.
3. To assess and plan for facilities for community education.

Accomplishments:

1. Instituted branch faculty representation on five (5) University committees (Community Education Committee, Admissions & Registration Committee, Undergraduate Academic Affairs Committee, Library Committee, Curriculum Committee).
2. Developed Branch Admissions Policy which was approved by the Faculty Senate.
3. Participated in the interviewing process for the position of Director of the Gallup Branch.
4. Supported the development of a new community education center and communicated this through both faculty and administrative channels.

5. Reviewed and made suggestions regarding the proposed University/Community Relations Committee.
6. Completed working draft of Branch Section for Faculty Handbook.
7. Held meetings at each of the branch campuses.

Suggestions:

1. Support four community representatives and continue to define their relationship with the committee.
2. Review liaison activities with continuing education and identify the role of members in this area.
3. Support branch faculty representation in Faculty Senate.
4. Follow-up on the priority of a new community education center.
5. Complete the final revisions for the Branch Sections of the Faculty Handbook.
6. Meet regularly as a committee including once at each branch campus.

DEAN'S OFFICE REPORT

This year Continuing Education continued to enjoy increases in enrollments in all sections with the exception of the Bureau of Conferences and Institutes. This operation seems to be more unpredictable and more subject to changes in the economy. In spite of increases in enrollments, inflation continued to take its toll on overall budget conditions. Credit courses increased dramatically as departments called upon the resident/extension format to deliver courses for which no departmental budget was available.

As of this writing, the future of the Head Start Supplementary Training Program is quite uncertain. UNM has provided training for Head Start teachers and aides since 1968.

Lack of space still continues to work against any new directions attempted by Continuing Education. As main campus moves toward more evening classes, Continuing Education suffers decline in available space. While moving off-campus achieves better PR and offers opportunities for residents to take advantage of educational offerings near their home, the overall affect on Continuing Education is not so positive. Off-campus space means additional costs to Continuing

Education.

Lack of automation in Continuing Education is hurting this Division's ability to respond to the large numbers of students enrolling. It is hoped that by 1982-1983, some form of computer hardware can be installed. Also, the need for computer education is beginning to surface as an area where Continuing Education will have to forge ahead.

The summer program continues to grow rapidly from year to year. Summer of 1982 showed a 30% plus increase over summer of 1981.

Due to budgetary constraints, several positions have been abolished and assignments of closed positions moved to other persons remaining on hand.

Telecourses went well, however, without State support it is doubtful that this activity can be continued.

Child Development Associate/
Head Start Supplementary Training Project
Annual Report Program Year 1981-1982

Project Staff: Nathaniel Archuleta, Ph.D., Director
Christina Calcutt, Project Secretary
Elida Gardia, Field Trainer
Seles Padilla, Field Trainer
Barbara Quintana, Field Trainer

The Child Development Associate (CDA)/Head Start Supplementary (HSST) project at the University of New Mexico was funded by the Administration of Children, Youth, & Families, Region VI in Dallas, Texas. This program was funded for the second year of a three-year contract to provide Child Development Associate (CDA) training to Head Start grantees in the State of New Mexico. The University of New Mexico through the Division of Continuing Education and The Department of Elementary Education worked together to provide CDA training to fourteen (14) Head Start grantees throughout the state.

A total of one-hundred-and-fifteen (115) Head Start employees were provided training each regular semester. The Head Start Supplementary and Child Development Associate training program was again funded for \$110,490. The funding level and the student load was the same as FY 1980-1981. In Fall 1981, the total enrollment was 116 Head Start employees who were registered for an

average of 5.7 semester hours while working towards their Child Development Associate credential. The course work was through the Department of Elementary Education with both resident and extension courses being offered. An average of 4.9 semester credit hours was completed by each CDA trainee with a total of 570 semester credit hours earned by CDA students.

Spring 1982 enrollment was 105 students in CDA training with each student registering for 6 hours of credit. A total of 499 semester credit hours was earned by all students during this semester. An average of 4.3 semester hours was completed by all students.

Training for Child Development Associate candidates was provided on-site as well as on-campus. All training was designed to compliment courses and requirements through the Department of Elementary Education and to count towards either an A.A. or a B.A. degree. This competency based training program strived to individualize the training process for each student, utilizing strengths and working on weaknesses. The basic areas covered in the training process were to:

1. Set up and maintain a healthy learning environment;
2. Build positive self-concepts and individual strengths in children;

3. Advance children's intellectual and physical competence;
4. Organize and sustain the positive functioning of children and adults in a group learning environment;
5. Bring about optimal coordination of home and center childrearing expectations and practices;
6. Carry out supplementary responsibilities related to the children's program (e.g. planning with other staff and attending to management functions);

(additional competencies required for staff working with bilingual/multi-cultural children)

7. Comprehend and communicate with children and adults in both English and the participants primary language;
8. Support the child's ethnic identity and self-concept by making cultural experiences as integral part of the daily program and supplemental activities;

These areas were part of the course work, seminars, and on-site training provided during Fall and Spring semesters. The following courses were provided to meet the content areas and to afford CDA students the opportunity to earn college credit: Elementary Education 128, 192, 200, 292, and 291.

Eleven other students registered for credit, either with UNM or through other New Mexico Universities, each semester. These students are classified as "protected students" and are provided the opportunity to continue their sought A.A. or B.A. degree through

Head Start Supplementary training. One of our protected students completed all of his requirements and received his B.A. degree this Spring.

The Child Development Associate training program again was active with CDA candidates and their assessment process. The credentialing organization, in Washington, D.C., was Bankstreet College and a close working relationship was established. During this program year thirty-one (31) CDA trainees, with the University of New Mexico, were assessed and all 31 were found competent. The success rate in all candidates trained by the University of New Mexico CDA training program has been 100%. There have been over one-hundred-and-fifty (150) CDA candidates assessed since assessments began in 1975 and all have received their CDA credential.

For the CDA project 1981-82 was a significant year because of the project model and other program adjustments. A four (4) semester training process was established which offers more indepth consistency and continuity. During the year this process was field tested and proved to be an invaluable asset to both the CDA candidates and the CDA field trainers. Extensive reference materials, assignments and on-site application projects provided each candidate with a well-rounded

academic and practical program.

The CDA training program at UNM continued to offer assistance to all programs throughout the state. It played a lead role in the organization of the Head Start staff, parents, and friends associations in New Mexico. The director of the CDA program was elected to the Region VI Head Start Association Board and serves as advisor to representatives on the National Head Start Board.

The support systems for the CDA program in 1981-1982 have been the best ever. The Division of Continuing Education has provided the assurance and the support necessary to achieve success in an extensive far reaching training program. The provision of extension credit for our candidates enables this program to survive on a very tight budget. Both the Division of Continuing Education and the Department of Elementary Education offered the necessary assistance to develop this solid program. The Department of Elementary Education offered the necessary classes for both on-site and on campus training. Approval of these courses was necessary in order to complete the programs goals and objectives.

At this time, the future of the CDA training program at UNM is unsure. This year the National Office has

changed the funding process from contracts to grants. Because of this change, and because all state monies for Head Start training will be in one grant, the CDA program must resubmit for the statewide funding. The scope of next year's program is much larger with more funds to provide this training will be available. Hopefully, UNM will receive the training grant and continue to provide needed services to our New Mexico Head Start community.

The Report of the Community College
July 1, 1981 - June 30, 1982

Fiscal year 1982 has been a year of growth and adjustment for The Community College. In spite of continued down turn in the economy, enrollments held up during this academic year. Fall enrollments increased by 5% over same period of 1980-1981.

Given inflation and continued increases in expenses, it was obvious that something needed to be changed to insure additional revenues. Accordingly, all fees for classes were re-examined and adjustments upward were made. Also, the decision to insert Explorations, the Division's catalog, into the Journal newspaper was made. That decision paid off and enrollments for spring of 1982 increased by 10% over 1981.

Programs which promote family participation; these specifically designed for families--Cooking Together, Sign Language, and those classes which allow children to attend free or at a reduced fee--Astronomy, Patchwork, Quilting, Sewing, Orienteering, Magic, Personal Defense, to name a few, have established a large following among program participants. We are currently reviewing all course offerings to determine which classes can be adapted to a family oriented activity beginning in the

following year.

Increasing programming for senior adults has resulted in a corresponding increase in participation by those persons over 60 years old. Discounts to senior adults have also been standardized at the rate of \$15.00 per class offering, contributing to this increase.

Cooperative programming begun in 1980-1981 between The Community College and University departments is currently being expanded to include BCMH/MRC, College of Engineering, Women's Studies, Medical Center Library, Physics and Astronomy, Cancer Center and Home Economics; among othes.

Many University departments, the downtown YWCA, APS, American Red Cross and several private entities continue to work with The Community College in an effort to more efficiently deliver educational services, while at the same time increasing community accessibility to program offerings.

Through increased marketing, catalog distribution and constant streamlining of the registration process, The Community College hopes to attract increased community participation from all segments of the Albuquerque Metropolitan area. Organizationally, some hard decisions will have to be made as efforts continue to stay ahead

of inflation and spiraling costs.

ENROLLMENT STATISTICS--FY 1976 - FY 1982

<u>FISCAL YEAR</u>	<u>TOTAL REGISTRATION</u>	<u>SEMESTERS</u>	<u>AVG. NUMBER OF STUDENTS PER CLASS</u>
1976	6541	Fall--3071 Spring-3470	23 24
1977	6675	Fall--3341 Spring-3334	24 24
1978	7697	Fall--3800 Spring-3897	25 27
1979	7897	Fall--3846 Spring-4051	24 22
1980	8803	Fall--4353 Spring-4450	23 22
1981	9222	Fall--4502 Spring-4720	21 21
1982	9919	Fall--4727 Spring-5192	21 21

CLASS STATISTICS--FY 1976 - FY 1982

<u>FISCAL YEAR</u>	<u># CLASSES OFFERED</u>	<u># CLASSES CANCELLED</u>	<u># CLASSES ACTUAL</u>	<u># CLASSES CLOSED</u>	<u>AVERAGE TUITION FEE</u>
1976	Fall-145	10	135	N/A	N/A
	Spring-158	16	142	---	---
1977	Fall-148	12	136	N/A	N/A
	Spring-151	15	136	---	---
1978	Fall-170	20	150	49	\$36
	Spring-172	30	142	49	\$36
1979	Fall-208	46	162	46	\$30
	Spring-218	32	186	38	\$36
1980	Fall-212	23	189	47	\$35
	Spring-230	25	205	49	\$35
1981	Fall-282	65	217	43	\$37
	Spring-273	46	227	40	\$37
1982	Fall-311	72	239	47	\$41
	Spring-301	51	250	44	\$41

CONFERENCES, INSTITUTES AND SHORT COURSES

DATE	TITLE	PARTICIPANTS
July 1-2	Birth Defects--1.2 CEU's	58
July 21-22	State Agency on Aging--1.0 CEU's	55
July 23-25	Grantsmanship and Proposal Writing and Zero-Based Budgeting--2.0 CEU's	11
July 30	Painting in Acrylics ¹	
August 3-4	Theater Games: A Workshop for Educators ¹	
August 3-7	Tekawitha Conference	800
August 3-7	IAU Symposium	60
August 6-7	Sixth Annual in SITU--1.5 CEU's	32
August 14	Alternative Careers for Teachers--0.7 CEU's	24
August 15	Effective Interviewing: Marketing Oneself Effectively 0.7 CEU's	14
August 21	Time Management--0.8 CEU's	19
August 21-22	JCL/IBM Computer Workshop--1.4 CEU's	16
August 26-28	Tribal Government Series: Admin and Mgmt ³	
August	Painting and Drawing Techn. for Teachers ¹	
September	Painting in Three Media	5
September 9-11	Tribal Government Series: Inherent and Const. Power 2.0 CEU's	8
September 12	Application of Pit and Fissure Sealants	26
September 14	Problems in Home Financing	100

DATE	TITLE	PARTICIPANTS
September 18	Mail Order Business--0.7 CEU's	26
September 18-19	Effective Supervision - T.A.--0.8 CEU's	6
September 19-20	Plant Use in the Jemez--1.5 CEU's	20
September 23-25	Tribal Government Series: Self Determination and Sovereignty--2.0 CEU's	5
October 3	Learning Personal Relaxation--0.7 CEU's	5
October 4	Theater Games: Teachers ¹	
October 9	Progressive Personnel Mgmt.--0.7 CEU's	4
October 9	Dealing with Stress--0.7	28
October 17	Beg. Drawing and Sketching in Various Media	5
October 17	Self Hypnosis--0.7 CEU's	41
October 17-24	NEDA-Record Keeping for Long Term Const. Contractors ¹	
October 23	Wage and Salary Admin.--0.8 CEU's	12
October 24	Samurai Sword (Santa Fe) ¹	
October 24	Skills for Emotional Expression ¹	
October 29	Emergency Pharmacology for Pharmacists and Nurses Albuq.	18
November 4	Emergency Pharmacology for Pharmacists and Nurses Alamogordo	40
November 5-7	Prof. Seminar on Adobe Tech. for Arch. and Engr.	17
November 6	Burnout for Administrators, Managers and Professionals 0.7 CEU's	15
November 7	Effect. and Assertiveness for Women Managers--0.8 CEU's	12

DATE	TITLE	PARTICIPANTS
November 13	Management By Objectives--0.8 CEU's	15
November 13-14	Solar Water Heater Workshop	8
November 14	Application of Pit and Fissure	21
November 14-21	NEDA--Small Business Accounting Systems	5
November 14	Second Annual UNM Nursing Conference	117
November 17-22	Grand Canyon Conference on Treatment of Addictive Behaviors--2.9 CEU's	86
November 20-21	Speed Reading--1.2 CEU's	8
November 20	Computer Purchase Management--0.7 CEU's	10
November 21	Samurai Sword (Las Cruces)	7
December 3	Emergency Pharmacology	54
December 4-5	Solar Water Heater Workshop	10
December 4-5	N.M. Mental Health Conference--1.0 CEU's	59
December 7-9	IRS Tax Practitioners--2.4 CEU's	110
January 7-9	Society of Certified Insurance Counselors	60
January 22	Samurai Sword (Albuquerque)	11
January 29-30	Solar Water Heater Workshop	7
February 2	Application of Pit and Fissure Sealants	14
February 2-23	Counseling Methods for the Clergy ⁴	
February 3-6	Basic Employment Dev.--2.8 CEU's	12
February 5-6	Effective Supervision through T.A.--1.4 CEU's	16

DATE	TITLE	PARTICIPANTS
February 6-13	Drawing I	17
February 13	Changing Careers--0.7 CEU's	14
February 14	Interviewing Strategies--0.7 CEU's	10
February 19-20	Health Education--1.0 CEU's	31
February 19-20	Solar Workshop	10
February 20-27	Dance Workshop for Parents and Children ¹	
February 25	Business Communications--.7 CEU's	13
March 1,8,15, 22	N.M. Industries for the Blind	15
March 5	Woman in Management: For Women and Men ¹	
March 6-13	Drawing II	18
March 11-12	Marcel Moyse Flute and Woodwind Master Class ³	
March 13	Samurai II	18
March 16-18	Grantsmanship and Foundations--1.6 CEU's	11
March 26	Customer Relations--0.7 CEU's	9
April 2	Effective Personnel Management--0.7 CEU's	13
April 2-4	Midwest Honors Council	112
April 17	Solar Workshop	3
April 16-17	Management By Objective--0.7	7
April 19	Art of Negotiating--0.7	35
April 19-21	Health Effects of Contaminants in Drinking Water Supplies 2.4 CEU's	46

DATE	TITLE	PARTICIPANTS
April 20	Mail Order Business--0.7 CEU's	16
April 23-25	Women in Nursing	44
April 29 - May 1	Society of Certified Insurance Counselors	66
May 7	Dealing Effectively with Stress	12
May 8-15	Watercolor	23
May 11-13	Women in Business--1.6 CEU's	4
May 15	Solar Workshop	12
May 21	Women, The Middle Years: Crisis and Challenge ¹	
June 4	Time Management--0.7--CEU's	23
June 5	Anorexia Nervosa and Related Eating Disorders--.65 CEU's	29
June 5-12	Oil Painting	12
June 9-11	Fault Tree	9
June 9-10	Values Clarification and Positive Thinking for Women	8
June 11-13	N.M. Youth Leadership Seminar"Hugh O'Brien Found."	95
June 11-13	ARA Meeting ³	
June 11	Assessing the Mental Health of School-Age Children 0.6 CEU's	61
June 12	Skills for Self-Hypnosis and The Creative Use of Fantasy ¹	
June 15	Jewelry Making ¹	
June 18	Changing Careers ¹	
June 19-26	Dimensional Speed Reading--1.2 CEU's	8
June 19-26	Drawing I	17

DATE	TITLE	PARTICIPANTS
June 19	Job Interviewing Strategies ¹	
June 21-28	Landscape I	
June 24-27	Land and Title Assoc.--1.9 CEU's	50
June 24-27	Job's Daughters ³	
June 25-27	Video Workshop: Porta Pak and Editing--2.2 CEU's	8
June 26	Self-Hypnosis ¹	
June 26	Dental Radiography	21
June 27-29	Church and Synagogue Library Assoc.	220

1 Insufficient Enrollment

2 Cancelled by UNM Bureau

3 Cancelled by Co-sponsor, and UNM Bureau

4 Postponed

CONTINUING EDUCATION (CEU) PROGRAM

The University of New Mexico Continuing Education Unit (CEU) Program is administered by the Dean of Continuing Education through the Bureau of Conferences, Institutes and Short Courses.

CEU's give recognition on a national basis to individuals who seek to continue their education or upgrade their chosen fields and individual skills through participation in UNM sponsored non-credit programs.

One CEU is defined as ten (10) contact hours in an organized continuing education experience that has been approved by the UNM CEU Committee prior to the scheduled activity: Ten contact hours result in 1.0 CE Units. The U.S. Office of Education's HEGIS course numbering system is used for the purpose of national CEU transferring.

The Registrar of Continuing Education maintains records of CE Units earned and furnishes to a participant, or his designee, an initial copy and subsequent copies upon request of an official transcript of units earned through UNM.

OTHER UNM APPROVED CEU ACTIVITIES

<u>LOG NO.</u>	<u>DATE</u>	<u>TITLE</u>	<u>CEU's OFFERED</u>
3038	July 6, 1981 July 31, 1984	Business Letters	2.4
3039	August 12-14	Financial Essentials	2.0
3040	Sept. 1-3	Japanese Mgmt.: Q.C. Circles and U.S. Applications	2.1
3041	July 9-10	Orthotics Workshop	0.95
3042	August 21-22	Job Control Language for IBM Systems	1.4
3043	Sept. 28 - Oct. 1	Workshop for Executive Secretaries and Administrative Assistants	1.5
3044	Sept. 4. Dec. 11	Basic management Program	4.5
3045	Sept. 15-17	Computer and Data Processing Essentials for Mgmt.	2.1
3046	June 8, 1981 June 8, 1984	Management Facilitator: How To Integrate Train. with Managing	1.6
3054	August 13-14	Sixth Annual Seminar: The Survival of The Family in the 80's	11.25
3055	Oct. 19-26	Improving Customer Relations	1.05
3056	Oct. 13-14	Contemporary Issues in International Mgmt.	1.5
3061	Sept. 1-8	Questioned Documents	0.6
3064	Sept. 25-26	The Med. Conseq. of Nuclear Weapons and Nuclear War	1.0
3066	Oct. 9 - Nov.1	Building A Calling and Caring Ministry	4.0
3067	Dec. 8-10	Performance Appraisal	2.0
3068	Nov. 23 25	Individual Income Tax Refresher Course	2.0

<u>LOG. NO</u>	<u>DATE</u>	<u>TITLE</u>	<u>OFFERED</u>
3069	Sept. 1 - Nov. 3	Private Pilot Ground School	2.0
3070	Sept. 9 - Oct. 12	Real Estate Practice	3.0
3071	Oct. 19 - Oct. 12	Real Estate Law	3.0
3072	Sept. 9 - Dec. 16	National Association of Legal Secretaries Official Basic Course	5.4
3073	Sept. 14 - Nov. 16	Spanish for Medical Personnel	2.0
3074	Sept. 1 - Nov. 3	Spanish for Medical Personnel	2.0
3075	Oct. 12 - Nov. 18	Real Estate Property	3.0
3076	Sept. 1. - Dec. 1	Medical Terminology	3.0
3077	Sept. 1 - Oct. 1	Real Estate Finance	3.0
3078	Aug. 31 - Oct. 12	Real Estate Transactions and New Mexico Law	3.0
3079	Oct. 20 - Dec. 1	Real Estate Appraisal	3.0
3080	Nov. 14	Thinking Holistically	0.6
3081	Sept. 28, 1982 Oct. 2, 1981	Wrap-up Session # 3-Administration Management	3.0
3082	Oct. 6-8	Japanese Management: Q.C. Circle and U.S. Applications	2.1
3083	Nov. 10-12	Women in Management	1.05
3084	Oct. 28	Comm. Education Wkshps Ctr. for American Ind. Comm.	0.5
3085	Oct. 22-23	Physically Disabled People and Sexuality Teacher Sex Ed.	.83
3086	Oct. 13	Infertility Awareness	.625
3087	Dec. 15-17	Japanese Management: Q.C. and U.S. Applications	2.1
3088	Jan. 28 - May 6	Basic Management Program	4.5

LOG. NO.	DATE	TITLE	CEU's OFFERED
3089	Nov. 20-21	Problem Solving and Decision Making Skills	0.7
3091	Jan. 19-20	Stress Management	1.4
3092	Jan. 25-28	Assertiveness Skills for Supervisors and Managers	1.5
4002	Feb. 9-11	Strategic and Long Range Planning	2.1
4003		Residential Energy Auditing Train. Program	
4005	Feb. 16-17	Computer and Data Processing Fund for Admin. Asst.	1.4
4006	Jan 11	Business English Skills	3.6
4007	Mar. 2-4	Japanese Management: Q.C. Circles and U.S. Applications	2.1
4008	Mar. 1-4	Women in Management	1.5
4009		Managing Job Stress	2.2
4010	Feb. 8 - May 7	Boiler Operation and Maintenance Phase I and II	4.0
4011	Jan. 19 - Aug. 22	Files Management	2.5
4012		Waste Water	12.8
4013	Mar. 15-17	Team Building	2.1
4014	Mar. 22-25	Workshop for Executive Secretaries and Admin. Assistants	1.5
4015	Apr. 5-15	Program for Mid-Managers	0.7
4018	Jan. 29-30	1982 Math Science Conference	1.6
4019	Mar. 3, 1982 Feb. 28, 1984	Management Effectiveness Workshop	2.0
4020	Apr. 1, 1982 Feb. 28, 1984	Leading	1.3
4021	Apr. 1, 1982 Mar. 11, 1984	Managing	0.9

LOG. NO	DATE	TITLE	OFFERED
4022	Mar. 10	Time Management	0.7
4023	Mar. 11	Effective Delegation	0.7
4025	Mar. 30	Coping Effectively with Burnout	0.7
4026	Mar. 31	Developing Career Alternatives	0.7
4029	Jan-21-Feb. 24	The Computation Arithmetic Program	1.2
4030	Mar. 15 - Sept. 20	Human Relations	3.0
4031	May. 3 - Sept. 17	Communication Skills Workshops	3.0
4032	May 17 - Aug 6	Assertiveness Training	3.0
4033	Sept. 1-30	Performance Review	9.0
4034	Sept. 1-30	Performance Review	1.2
4035	Mar. 19-21	Holistic Health	1.2
4036	Mar. 2-3	Computer Data Processing Fund. for Admin. Assist. & Off. Staff	1.4
4037	Apr. 13-15	Managing EEO/AA and other Government Reg.	1.5
4038	Apr. 19-20	Basic Project Management	1.4
4039	Apr. 26	Fund. to Improve Managerial Effectiveness	0.7
4040	Apr. 1 - May 27	Close Encounters of A Holistic Kind	2.9
4042	May 3	Improving Prod. Through Positive Expect. and Reinforcement	0.7
4043	May 31	Shonto Elementary School Curriculum Development K-8	5.0
4044	Mar. 10-12	Helping To Provide Quality Services for Seniors	0.675
4046	Apr. 3, 1982 Mar. 2, 1985	Business English	2.4

LOG. NO	DATE	TITLE	OFFERED
4047	Mar. 15-17	Microprocessor Background for Management Personnel	2.0
4048	Mar. 11 - Nov. 3	Chinese-American Clinical Study Program	3.5
4049	Mar. 16 - Nov. 9	Soviet-American Clinical Study Program	3.5
4051	Mar. 22 - May 28	School Discipline-Combined Approach at La Mesa	4.8
4052	Apr. 19-22	Prevention in the 80's	3.0
4053	May 5-7	Methods for the Rapid Identification of Anaerobic	1.9
4054	Apr. 2 - June 2	Basic Power Plant Operations	16.0
4055	June 2 - Aug. 2	Basic Power Plant Practice	16.0
4056	Apr. 12 - Dec. 31	Writing Strategies	2.4
4057	Apr. 23-24	New Mexico Coalition Against Domestic Violence	0.5
4058	Apr. 29-30	Feeding Techniques for Developmentally Delayed Children	0.8
4066	Apr. 19-22	Prevention of the 80's	0.8
4067	May 17-20	New Ideas in Office Administration	1.05
4069	May 20 - July 20	Basic Power Plant Practices	2.0
4071	June 5-6	Integration Training	1.6
4073	July 19-22	Accounting and Financial Essentials	1.5
4074	Aug. 2-4	Developing Greater Personal Effect. Within Your Organization	1.5
4076	Oct. 7-9	Fifth Annual Symposium on Women and Chemical Dependency	2.0
4077	June 4-5	Volunteer Coaches Workshop	1.2
4079	June 22 - Dec. 31	Listening and Remembering	2.4
4080	June 14 - Dec. 31	Solving Problems	2.4

CREDIT CLASSES

Any course listed in the University of New Mexico Bulletin, catalog issue, may, subject to appropriate approval, be offered for credit through the Division. The Division obtains approval from departmental chairpersons for all courses to be offered for credit. Approval of teaching faculty is obtained by the Division from the departmental chairperson, and if necessary, from the Dean. However, obtaining approval from the Graduate School for a person to teach at the graduate level is a departmental responsibility.

The need for a credit course may be identified in several ways: an employer may desire to have employees take a certain course; an instructor may wish to teach a certain course off-campus; or Division personnel may identify a need. Course requests may be directed to the appropriate academic department, the appropriate college, or to the Division of Continuing Education and Community Services. Regardless of the initial contact, the Division is notified of the request and all coordination is accomplished by the Division.

Starting with the Summer Session of 1977, an effort was made to have credit courses offered through the Division in Bernalillo County considered resident credit.

Division personnel coordinate registration for Resident Extension/Extension classes. Registration may occur on site or through the Division office and in some cases through normal registration channels. Registration forms and admissions applications are sent to the UNM Registrar and fees are sent to the UNM cashier. The students are then treated as regularly enrolled students with grades reported in the normal manner. The Division has encountered some problems in adapting to the rigid requirements of the total system, however, many of the problems have been minimized by close cooperation with other campus offices. Substantial progress has been made in refining this mechanism.

Those credit courses offered outside of Bernalillo County are still considered to be extension credit and all registration, fee collections, and grade reporting are accomplished by the Division.

The general policy this Division has followed is that credit courses will be established anywhere that sufficient demand warrants. The figures listed in Table I indicate number of classes each term and number of student credit hours produced each term during the Summer Session of 1981 through the Spring term of 1982. Enrollments are broken into resident and extension

categories. As compared to previous years, enrollments are markedly up in the resident category which reflects a major effort by the Division to make this the major credit priority. This increase was accomplished through a concentrated effort even though due to staffing a steady state enrollment in the program was predicted for the year. Much of this increase was due to a State Department of Education mandate in reading. The Albuquerque Public Schools working with the Division was able to address this large need with Resident Extension classes. Additionally, in the Fall of 1981, courses by television, KNME Channel 5, were introduced. These courses, two in Fall 1981 and three in Spring 1982, were conducted as Resident Extension courses. All were successful, having enrollments above the national average. It is anticipated that Fall 1982, television courses will be conducted on an Extension basis. Through resident credit classes at the Division, 4,639 students were enrolled during this reporting period. This is an increase of 52.8% in student credit hours over the previous year in the Resident Extension category.

This past year a total of 423 classes were offered to 6262 individuals.

However, to get a true picture of the total number

of individuals served in credit courses by the Division and off-campus, one must take into account all activities of others who offer courses off-campus. Prior to the establishment of the branch colleges, all credit work performed off-campus was by extension. All lower division work in the branch area is now performed by the branches with upper division work by extension. Several years ago, 1974-75, Teacher Education Centers were established at various locations for upper division (and lower division, in some cases) resident credit work off-campus. Many of the students who were enrolled in Teacher Education Centers were, in the past, enrolled as extension students. Also, in 1975-76, Graduate Resident Centers were established in Santa Fe and Los Alamos. Many of the students enrolled in the Graduate Resident Centers were previously extension class students.

Therefore, when all aspects of the Division's activities and others in credit activities are considered, it is readily apparent that the service to the off-campus community has increased tremendously.

TABLE I

	<u>Number of Classes</u>	<u>Number Students</u>	<u>Student Credit Hours</u>
Summer 1981			
Extension Courses	16	125	349
Resident Courses	79	1,141	2,582
Fall 1981			
Extension Courses	47	536	1,259
Resident Courses	81	1,320	2,751
Spring 1982			
Extension Courses	76	962	2,804
Resident Courses	124	2,178	4,850
<hr/>			
1981-82 Extension (Sub total)	139	1,623	4,412
1981-82 Resident (Sub total)	284	4,639	10,183
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1981-82 Total	423	6,262	14,595
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1980-81 Extension (Sub total)	99	1,450	3,677
1980-81 Resident (Sub total)	188	3,037	6,662
<hr/>			
1980-81 Total	287	4,489	10,339
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TABLE II
FTE STATISTICS

Year	Summer	Semester I	Semester II	Total
1974-75	85.1	167.4	201.9	227.2
1975-76	120.9	138.3	183.0	221.1
1976-77 X	120.4	112.1	149.1	195.8
1976-77 R	43.8	82.9	82.0	107.4
1976-77 T	174.2	201.9	231.1	303.2
1977-78	213.47	145.2	241.3	300.0
1978-79	170.4	120.4	216.4	227.37
1979-80	159.7	176.4	234.4	285.3
1980-81	148.4	235.8	295.8	344.6
1981-82	195.4	267.3	510.3	973

THE REPORT OF THE HARWOOD FOUNDATION
OF THE UNIVERSITY OF NEW MEXICO, TAOS, N.M.

July 1, 1981 to June 30, 1982

James Levy, Director

THE HARWOOD ADVISORY BOARD

Arthur Adair (President)

Gabriel Chavez

Van Dorn Hooker

Michael Knight

Sue McCleery

Robert Ray

Rick Romancito

Bob Saltzman

Corina Santistevan

Rupert Trujillo

THE HARWOOD LIBRARY COMMITTEE

Wallace Bacon (Chair)

Shirley Bogs (Secretary)

Philip Cantu Jr.

Bonifacio Fernandez (Vice-Chair)

Beatriz Gonzales

Matilda Hadley

Carolyn Hensley

Eleanor Huff (Treasurer)

Paty Navarrete

Jack Schacht

Gary Schrodt

Elsa Torres

Jeri Vargas

HARWOOD PERSONNEL

John Comstock caretaker

Victoria Duran librarian

John Flexner head librarian

Catherine Logue bookkeeper

Gilbert Lujan custodian

Maria-Solange Macías librarian

Tracy McCallum librarian

Carmen Medina librarian

Joyce Padilla library aide

Kathleen Rael children's librarian

Carlos Rendon maintenance

David Witt curator

Betsy Wolf secretary

Personnel changes during the year:

Victoria Plata resigned 8/22/81

Maria-Solange Macías hired 8/26/81

Donna Lanoff leave without pay 5/9/82

Kathleen Rael hired 4/30/82

Joyce Padilla hired 6/1/82

Wayne Rice resigned 6/15/82

John Comstock hired 6/15/82

Jim Levy resigned 6/30/82

GENERAL

The renovation of the Alcalde building was completed in September 1981, and added much-needed space: a classroom, a meeting room, the curator's office and the museum workroom.

The small gallery, renamed The East Gallery, was renovated in April 1982 and became an improved exhibit space.

The Harwood printed a new brochure in March and 2,800 posters of the church in Arroyo Hondo as promotional devices.

LIBRARY

Under the leadership of head librarian, John Flexner, the Special Collections rooms were re-designed and organized.

The library entered into a reciprocal borrowing agreement with many other New Mexican public libraries, enabling Harwood cardholders to borrow from those libraries.

A weekly radio program was begun in March, featuring library topics and issues.

Jim Levy, Director, wrote Library Services Report,

a report on library services in Taos County, in March.

The Taos Children's Library under Donna Lanoff produced a full summer of weekly programs in 1981, and, under Kathleen Rael, again in 1982, including 10 creative programs (art, music, etc.), 7 films, 4 Reading is Fundamental give-aways and 27 story hours. 54 classes visited the children's library.

	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>
A. Registered Borrowers	5,780	6,969	7,500
New Cards Issued	1,697	1,630	1,959
B. Circulation: Adult	34,373	38,222	41,374
Juvenile	<u>16,685</u>	<u>17,163</u>	<u>20,601</u>
Total	51,058	55,585	61,975
C. Interlibrary loans requested from other libraries	461	205	547

(received)

Library Collections (1980 inventory)

adult non-fiction	14,027
adult fiction	4,485
Special Collections	<u>1,362</u>
adult total	19,874
children's non-fiction	2,063
children's fiction	<u>3,711</u>
children's total	5,774

Total Titles	25,648
<u>Library Hours</u>	The library is open 47 hours a week.
Monday	10:00 - 8:00
Tuesday	10:00 - 5:00
Wednesday	10:00 - 5:00
Thursday	10:00 - 8:00
Friday	10:00 - 5:00
Saturday	10:00 - 4:00
Public-use area:	5,154 sq. ft.
Workrooms, offices:	<u>2,356 sq. ft.</u>
Total	7,510 sq. ft.
Shelving:	2,985 linear feet
Seats for public use:	47

MUSEUM

In the fall, Curator David Witt created a master conservation plan for the Harwood collections based on the recommendations of the conservators who have been surveying the collections. The collections were newly appraised at that time also.

Exhibits

Victor Higgins Retrospective:	October 1 - 11
New acquisitions:	June 4 - September 1982
Maxwell Museum exhibit	September 1981 -
(textiles, pots, baskets)	September 1982

Imhof Room one-person exhibits:

Connie Witt	Shirley Lyon
Bernice Bauer	Juanita Jaramillo
Virginia Black	Bob Saltzman
Jane Burke	Carey Moore
Alberto Castagna	Rosalyn Clark
Katy George	Leonardou Gonzales
Ann Merrill	Bill Creighton
Michael Smith	Ellen Grodjek
Lynn Cox	Maria-Solange Macias
Dorothy Riggs	Paty Navarrete
Ginger Mongiello	Fargo Gerard
Consuelo Arostegui	Allan Greedy

Acquisitions

"v"	drawing	Thomas Benrimo
"High Country"	watercolor	Lesley Brown
"Dreamer"	drawing	Louis Catusco
"Self Portrait"	watercolor	Adeine De La Noe
"Naja Mesa"	sculpture	Ken Drew
"The Bronco Buster"	lithograph	W. Herbert Dunton
"Noche Larga"	serigraph	R. C. Ellis
"Beneath the Cottonwoods"	lithograph	E. Martin Hennings
"The Long Wait:	aquatint	Arthur Jacobson

"Nude"	drawing	Spud Johnson
"Taos Valley, New Mexcio"	oil	Bert Phillips
"New Mexico Band for Cup"	drawing	Ken Price
"The Cat"	drawing	Louis Ribak
"Dark Forest"	oil	Mary Shiras
"Ranchos Fence"	photograph	Dick Spas
"Impressions of a Landscape"	oil	Clay Spohn
"Portrait"	drawing	Earl Stroh
"Iglesia de Arroyo Hondo"	photograph	Harold Joe Waldrum
"Olafs Dream"	acrylic	Malcolm Brown

AUDITORIUM, ALCALDE CLASSROOM, MEETING ROOM

	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>
films	13	12	20
slide shows	6	9	10
theater	3	0	0
dance	0	1	0
lectures	8	6	15
readings	8	6	3
concerts	7	18	24
classes	8	12	7
workshops	10	8	6
meetings	31	29	45
memorial services	1	0	0
rehearsals	NA	NA	28

	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>
Total number of times these spaces were used	146	166	219
	2.8 per wk.	32. per wk.	4.2 per wk.

INDEPENDENT STUDY COURSES

Independent Study course enrollment for 1981-82, declined approximately 14% from the past year. The fact that many courses had to be revised this past year, probably accounts for this steady state. Listed below are the 1981-82 course revisions, adds and drops.

Independent Study Courses Revised During 1980-81

Astronomy 101C: Introduction to Astronomy
Economics 200C: Principles and Problems
Economics 201C: Principles of Economics
Economics 315C: Money and Banking
Engineering 203C
English 100C: Writing Standard English
Elementary Education 331C: Teaching Reading in
Elementary Schools
Geology 101C
Health Education 171C: Personal and Community Health
History 161C: U.S. History
Math 111C
Math 112C
Math 150C
Nursing 225C
Nursing 239C
Nursing 240C
Political Science 110C
Political Science 200C
Psychology 332C: Abnormal Psychology
Psychology 371C
Sociology 101C: Introduction to Sociology

Spanish 101C: Elementary Spanish

Spanish 102C: Elementary Spanish

Independent Study Courses Added 1981-82

Math 311C: Vector Analysis

Independent Study Courses Deleted 1981-82

Anthropology 356C

Latin 101C

Latin 102C

Management 270C

Math 265C

Philosophy 241C

Political Science 290C

Political Science 305C

Political Science 306C

Political Science 375C

Political Science 376C

Political Science 415C

Spanish 346C

Spanish 351C

High School Courses

The number of students actually enrolled in courses during 1981-82, including new enrollments, carry-overs, withdrawals, and completions was 1,021. Five hundred ninety (590) students were enrolled in all courses during 1981-82 as compared to 673 in 1980-81. The enrollment by month is depicted in the following chart.

Enrollments During July 1981 - June 1982

July	40
August	81
September	40
October	39
November	25
December	26
January	104
February	48
March	45
April	38
May	61
June	<u>45</u>
TOTAL	593

COMPARISON OF INDEPENDENT STUDY STATISTICS FOR LAST EIGHT YEARS

<u>Year</u>	<u># of Courses Offered</u>	<u>Enrollments</u>		<u>Total</u>	<u>% of Increase or Decrease</u>	<u>States</u>	<u>New Mexico Counties</u>	<u>Countries</u>
		<u>Men</u>	<u>Women</u>					
73-74	84	235	221	456	D-20.	32	26	6
74-75	85	164	192	356	D-21.9	32	26	6
75-76	87	178	222	400	I-12.	27	24	5
76-77	94	251	393	644	I-63.	30	27	7
77-78	91	278	471	749	I-16.3	32	26	3
78-79	89	137	259	396	D-40	24	27	2
79-80	91	230	443	673	I-58	27	26	11
80-81	69	270	403	673	0	36	23	9
81-82	85	238	348	586	D-12	31	23	1

NON-DEGREE STATUS

All students classified in Non-Degree status are under the jurisdiction of the Dean of the Division of Continuing Education and Community Services. Students who make application to attend the University of New Mexico just prior to the beginning of the semester and who have missed the deadline to enroll in regular status are accommodated by enrolling in Non-Degree status. The following page enrollment figures are reported for the past seven years.

The Division prepares and maintains personal folders for all students in Non-Degree status. Through these folders up-to-date academic records on approximately 10,500 students enrolled in Non-Degree status were kept during the past academic year. (This figure includes students enrolled for the Summer Session of 1980.)

Furthermore, the Division has responsibility for the probation and suspension of Non-Degree students who fail to maintain the University's academic standards of a two-point average. During the 1980-1981 year, 124 Non-Degree students were suspended; 1,392 students were placed on probation; and 414 students were continued on probation.

COMPARISON OF STUDENTS REGISTERED IN
NON-DEGREE STATUS FOR THE PAST SEVEN YEARS
(Regular Semester only)

Year	Semester	Students	% Increase/Decrease over Corresponding Periods	Total for Year
1975-76	1st	3548	13.94% Increase	7165
	2nd	3617	20.13% Increase	
1976-77	1st	3950	11.33% Increase	7667
	2nd	3717	2.76% Increase	
1977-78	1st	4538	14.89% Increase	7645
	2nd	3107	19.63% Decrease	
1978-79	1st	3049	32.81% Decrease	6212
	2nd	3163	1.83% Increase	
1979-80	1st	3441	11.4% Increase	7283
	2nd	3842	21.1% Increase	
1980-81	1st	3876	11.2% Increase	7797
	2nd	3921	2.0% Increase	
1981-82	1st	4047	4.4% Increase	10,705
	2nd	4379	11.6% Increase	
	Sum	2279		

NON-DEGREE PROBATION AND SUSPENSION FIGURES

	Placed on Probation	Continued on Probation	Suspended
1976-77	895	246	82
1977-78	963	316	72
1978-79	1001	287	67
1979-80	1055	314	67
1980-81	1178	351	108
1981-82	1392	414	124

Many of the students in Non-Degree status are in great need of advice and counseling. Since the Division receives no support for this activity, the Division merely serves as a holding house for these students.

In the Fall semester 1981, a University College advisor was available to Non-Degree students at the Registration Center during the month of August between 2:00 PM and 6:00PM and in January 1982 for the Spring Semester. This experiment met with limited usage about 150 overloads were approved and general questions were answered for Non-Degree students. This service will be continued in the Fall of 1982. Additionally, college advisement centers continue to provide advisement to Non-Degree students who seek assistance.

It is felt that Advisement efforts are still only stop gaps for Non-Degree students. At some point, the need for a Non-Degree advisor must be addressed.

OPERATIONS
July 1, 1981 - June 30, 1982
Ronald Shibata, Director/Business Manager

The Operations section of Continuing Education is responsible for the registration and maintenance of records for the following programs:

Community College
College Prep
Summer Programs
Extension
Resident Extension
Independent Study

In addition to these functions, D. H. Lawrence Ranch cabin rental, rental of UNM facilities and maintenance of Non-Degree student files are also a function of the Operations section. Housed in the same area is the Division's business office which is responsible for accounting for all revenues and expenses for Continuing Education.

Changes Made 1981-82

During FY'82, changes made to the physical facility of the Operations area were as follows:

The reception area was redone in order to provide more seating area for the public. Additional telephone answering facilities were also added to enable the Operations area to more effectively handle telephone traffic which

has increased significantly over the past year.

In order to have up-to-date information regarding the status of courses in the Community College Program, a course status board was developed in order to instantly advise both staff and customers if a course is either open, closed, or has been cancelled. A color code is used to provide this information.

Debriefings

Operations continues to hold staff debriefings after the Fall and Spring registration periods. The purpose of these sessions are to identify both the weak and strong points of the section. In areas where the section is weak, solutions are arrived at to strengthen the area of concern. Many of the changes mentioned previously have come about as a result of these sessions.

Temporary Staff

As has been the case in the past, Operations continues to rely on the use of temporary help to get through the heavy registration periods. During the past year, the decision was made to obtain temporary

help exclusively out of the pool maintained by the Personnel Department. This move has proved to be very successful and will be continued in the future.

Educational Aids

Operations staff are encouraged to take advantage of either the UNM tuition waiver program or courses offered through the Management Development and Training Office. During the past year, a large majority of the staff took advantage of these employee benefits. Staff will be encouraged to continue this practice in the future.

Personnel

During 1981-82, in order to conserve funds, one non-exempt position in Operations was eliminated by attrition. Through a readjustment in duties carried on by the remainder of the staff, the duties previously assigned to that person have been absorbed. Also during the past year, a practice was started of making every effort to promote from within when feasible. As the staff has been relatively stable during the past year, only one promotion was made. Victoria Burke was promoted from a CSIV to a CSV during 1981-82 as a result of the resignation of Rosemary Chavez.

SUMMER PROGRAMS

Summer Programs 1982 featured an expansion of non-credit offerings to include 110 different courses (158 sections total) which enrolled nearly 2000 people. In contrast to previous summer programs, this year's program's focus was not limited to recreational activities. A sample of new courses is as follows: Interpersonal Communication, CPR, Financial Management, Introduction to Computer Literacy, Passive Solar Design, Floral Arranging, and Southwest humanities lecture series, and several new outdoor recreation classes. In addition, the program "Especially for Kids" included new programs in languages, a Drama Workshop for Children (taught by a professional theatre group), The World Around Us, Ballet, Magic for Kids, and the more extensive Youth Sports Fitness School (209 participants) and Summer Gymnastic Clinics (49 participants). Out-of-town programs included five (5) weekend workshops at the Circle A Ranch, Cuba, and two (2) Saturday workshops at the SunRise Springs Inn, La Cienega.

The total number of sections offered (after cancellations due to low enrollment, etc.) was 110, an increase of 59% over Summer Programs 1981. Total registrations for Summer 1982 reached 1983, an increase of

35% over Summer Programs 1981.

A separate brochure was published which featured credit courses, Bureau of Conferences and Institutes workshops, and other non-credit classes.

Due to organizational realignment, this is probably the last summer where the program will be conducted as a stand alone program. Henceforth, the planning and implementation of summer activities will be administered much like the regular community college program. Summer will continue to have its own budget so that internal decisions can be made.

The Report of the Office of the
Associate Provost for
Community Education
July 1, 1981 - June 30, 1982
Alex A. Sanchez, Associate Provost

OVERVIEW

July 1981 through June 1982, was a landmark year for this office in a number of ways. The major divisions reporting to this office all experienced increased enrollments, visibility, and viability within their respective communities. The reporting units include: UNM Division of Continuing Education & Community Services, UNM Gallup Branch, UNM Los Alamos Branch, and UNM Valencia Branch.

Additionally, this office initiated and supervised the ongoing development of a proposal in Telecommunications, a most important and timely endeavor in alternative formats for the delivery of higher education in a distance mode.

DIVISION OF CONTINUING EDUCATION & COMMUNITY SERVICES

This year, Continuing Education continued to enjoy increases in enrollments in all sections with the exception of the Bureau of Conferences and

-2-

Institutes. Credit courses increased dramatically as departments called upon the resident/extension format to deliver courses for which no departmental budget was available.

Unfortunately, lack of automation in Continuing Education is hurting the Division's ability to respond to the large numbers of students enrolling, but it is hoped that in the near future, some form of computer hardware can be installed.

Overall, 1981-82 was a very active year for the Division of Continuing Education as the attached Annual Report will bear out.

BRANCHES

Gallup

The Fall of 1981, brought Dr. John Phillips to the position of Acting Director of the Gallup Branch with the resignation of Dr. Donald Gatzke. Dr. Phillips faced the challenge of a campus growing in many phases of development: student enrollment (up approximately 20% from the previous year), cur-

riculum and campus planning. In October 1981, Gallup was visited by team members of the North Central Accreditation Association and their report reflected quite favorably on the institution. Their next visit will be the regularly scheduled decennial visit in 1989.

The Gallup Branch sought and had approved through UNM Faculty Senate Committees nineteen (19) associate degrees. The number and diversity of these degrees speak to both the interest in and growth of the Gallup Campus. (See attached report for details.)

Los Alamos

The Los Alamos Branch, in its second year of operation, enjoyed significant community recognition and acceptance with the successful passage of a general obligation bond issue in October, 1981. These funds supplemented by a \$900,000 appropriation from the New Mexico State Legislature will be used for construction of new facilities and the remodeling of an existing structure.

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Los Alamos also experienced a dramatic enrollment increase in the Fall of 1981 - up approximately 40% over the Fall 1980 figures. Two new associate degrees were added to Los Alamos' offerings augmenting curricula and enhancing its important role in community education. (See attached report for details.)

Valencia

Fall 1981, saw the opening of UNM's third Branch- UNM Valencia - located in Belen, New Mexico. The Valencia Branch, under the leadership of Dr. Omero Suarez, enjoyed a creditable first year with FTE enrollments exceeding projections.

UNM Valencia, in addition to bringing post-secondary education to the combined school districts of Los Lunas and Belen, has also brought its academic and vocational programs to both the minimum and medium security facilities located in Los Lunas. The Valencia Branch received approval for two associate degrees this past year: Education and Liberal Arts.

In the Spring of '82, the Branch's Director

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established the Five-Year Planning Committee to determine program and facility needs through 1987. With a site donation of some 100 acres, the Valencia Branch may enjoy a new site location in Tomé within five years. (See attached report for details.)

BRANCH ACTIVITIES/MAIN CAMPUS

In July 1981, the appointment of Branch Coordinator, Dr. Susan Lynch, was made. The need for someone in the office of the Associate Provost for Community Education who could focus on Branch issues had become imperative with the creation of a third Branch and its concomitant staffing. Branches and main campus personnel, alike, can focus on this resource person for information, problem-solving, coordination of activities, and services.

The following partial list indicates the fruits of combined efforts of the Associate Provost for Community Education, Branch Directors, Branch Coordinator, and various main campus offices through 1981-82:

- 1) Articulation agreements between associate

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and baccaulaureate programs;

- 2) Branch faculty representation on Standing Committees of the Faculty Senate;
- 3) Advisement Days held at each Branch;
- 4) Increased visibility: Lobo and Campus News coverage; and,
- 5) Branch Workshop in the Spring of 1982 - presenting a wide range of information to University academic administrators.

NEW APPOINTMENTS FOR 1981-82

Dr. Susan A. Lynch, Branch Coordinator, July 1, 1981

Dr. Omero Suarez, Director, Valencia Branch, July 1, 1981

Dr. John Phillips, Director, Gallup Branch, December, 1981

TELECOMMUNICATIONS

Under a grant from the Fund for the Improvement

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of Post-Secondary Education (FIPSE), a first-year effort in the establishment of a state-wide instructional telecommunications system was initiated. Areas examined during this first year included:

- 1) Review of existing data
- 2) Present capabilities
- 3) Available technologies
- 4) Potential system users
- 5) Community assessment
- 6) Future technologies assessment
- 7) Networking

An additional FIPSE grant, which has been received for 1982-83, will permit the planning and funding of such a system to continue on the basis of information gained during this initial year. (See attached report.)

The Report of the Telecommunications
Activities Services Center
July 1, 1981 - June 30, 1982
Alex A. Sanchez, Director
Amy L. Atkins, Co-Director

The Final Report for Project TASC's "Year One"
of operation examines seven (7) areas of concern.

These include:

1. Review of existing data
2. Present capabilities
3. Available technologies
4. Potential system users
5. Community assessment
6. Future technologies assessment
7. Networking

The purpose of this general assessment is to provide a base of understanding to facilitate the creation of a telecommunications network in "Year Two."

The review of existing data examines specific efforts related to educational telecommunications in New Mexico. It covers data ranging from that gathered in the State Department of Education's Media Resources Survey to the Albuquerque Urban Observatory Study on Adult Needs in Postsecondary Education. In addition,

-2-

State Library hardware and courseware activities in their Media Coordinating Center are also examined with respect to their prospective role in the telecommunications network. Telecourse cataloging and current PBS data gathering efforts are also covered as they relate to the goals of Project TASC.

Present capabilities were assessed through use of extensive interviews and questionnaires. These means enabled Project TASC researchers to better grasp delivery problems and actual hardware and courseware needs as perceived by the respondents. Respondents were chosen from various sectors of telecommunication users; i.e., PBS and cable T.V. stations, business, government, and education. Most sectors revealed that a telecommunications network would serve needs which are presently unmet.

Three technical fields are examined in the area of available technologies. These are: television, video telephone, and computers. Within each area are encompassed means which could be utilized in New Mexico's educational telecommunications network.

-3-

For example, such means include satellite and micro-wave for television/video technology, the electronic blackboard for telephone technology, and computer conferencing for computer technology.

The Final Report also includes a survey of potential system users of continuing education in New Mexico. The survey was conducted by Project TASC researchers and revealed that many groups in the State have a need for continuing education. The survey also revealed that such needs fall within the scope of Project TASC's telecommunications network.

Community assessment of hardware and courseware needs emerged as a result of the numerous interviews and surveys conducted by Project TASC researchers. Teleconferencing, cable television, and interactive video reoccurred among the respondent groups as hardware most needed. Courseware needs varied by group and ranged from mathematics and language arts for the public schools to public information for government and health respondents.

The future technologies assessment describes

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the advantages and disadvantages of those technologies covered in the section on available technologies. In addition, three potential systems are presented as possible models for use in New Mexico. They are: the satellite model, microwave model, and electronic classroom model. Models include a cost breakdown tailored to New Mexico's specifications.

Finally, a review of networking operations throughout the United States is examined. Telecommunications is discussed under three headings: non-traditional delivery of courses, review of telecourse projects, and a report on the 1982 Telecourse Conference held in Dallas, Texas.

With the educational telecommunications needs furnished by this investigation, Project TASC is now able to proceed by putting its network into operation.

The Report of the Los Alamos Branch College

July 1, 1981 - June 30, 1982

Herbert C. Lyon, Director

I. Enrollments and Finances.

The year 1981-82 saw a large increase in student enrollments at the University of New Mexico-Los Alamos. Enrollment in the Fall was 503 students for 186 FTE, an increase of nearly 40% over the previous Fall. In the Spring, enrollment was 539 students for 214 FTE, and in the Summer, 1982, it was 341 students for 82 FTE, an increase of nearly 75% over the previous summer. The final official FTE enrollment figure for 1981-82, based upon Summer and Fall, 1981, and Spring 1982, was 217 FTE. This compares well with 144 for the previous year (which excluded the Summer Session). The largest single component in this increase was composed of students in computer classes.

State funding also followed this pattern. The 1982 New Mexico Legislature appropriated nearly \$540,000 for UNM-Los Alamos for 1982-83, an increase 39%. In addition, the Vocational Education Department of the State Department of Education recommended a \$20,000 grant to UNM-Los Alamos for 1982-83. At this writing, however, this amount is subject to rescission from Washington.

II. Facilities.

The most significant UNM-LA event in 1981-82 occurred on October 27, 1981, when the voters of Los Alamos approved, by a 2 to 1 margin, a general obligation bond issue in the amount of \$1,100,000 for the construction of new facilities at UNM-Los Alamos. These funds will be supplemented by \$900,000 appropriated by the 1980 New Mexico

Legislature. Thus, a total of \$2,000,000.00 is available for construction of new facilities. The architectural firm of Harvey Hoshour, Ltd. is preparing construction drawings and it is expected that the project will go to bid in August, with groundbreaking to occur in September. The plans call for complete remodeling of the present east wing of Mesa school to include a library, a reception area, administrative offices, and a conference room. A classroom module will be constructed, with three classrooms and a large multi-purpose room. Also to be constructed will be a module for the computer facility and a general science laboratory, and a module for the electronics and laser programs. A considerable amount of site work is included, to involve the establishment of a plaza, a small outdoor amphitheater, a parking lot, and necessary streets and driveways.

At this writing, a request is pending before the Board of Educational Finance for the construction of a fourth module, to house a program in Basic Laboratory Skills.

III. Curricular Developments.

The year 1981-82 saw the establishment of several new academic programs, each implemented as the result of broadly based citizen task force involvement. A new Associate Degree in Business Administration/Management was approved, as was one in Liberal Arts. Hazardous Materials Technology has been established as a sequence of several courses, and growing out of the Hazardous Materials Technology Task Force, we have begun work on a new one-year certificate program in Basic Laboratory Skills. This competency-based generic program is seen as providing the first year of curriculum in several technical areas. Consistent with the mushrooming national demand for courses in computer

graphics, UNM-Los Alamos established a task force to make recommendations in this regard. In the Fall, 1982, a new course in computer graphics will be offered, and serious efforts are underway for moving UNM-Los Alamos in the direction of computer aided design.

Dr. Steven Cheshier, President of Southern Technical Institute and a widely recognized consultant for ABET (Accreditation Board for Engineering Technology), visited UNM-Los Alamos for the express purpose of making recommendations regarding the accreditation of the electronics and laser programs. As a result of Dr. Cheshier's visit, which was very positive, it appears that UNM-Los Alamos will be seeking ABET accreditation for its electronics and laser program in 1982-83.

Several new courses in philosophy, literature and anthropology have been offered during this academic year and have been very popular. These include Science, Technology and Society, Ancient Peoples of the Southwest and The Study of Literature.

There has been a 50% increase in the number of courses offered in 1982-83 compared with the previous year.

IV. Computer.

In October, 1981, the UNM-Los Alamos Branch, in cooperation with the UNM Los Alamos Center for Graduate Studies, purchased a VAX 11/750 computer, manufactured by Digital Equipment Corporation. This computer, which presently has 15 terminals and a high speed printer, saw a great deal of usage from students during the year, and it is expected that this usage will increase. It has been supplemented with four dial-up terminals and telephone lines, and at this writing, it appears that additional graphic terminals will soon be purchased.

V. Women in Science Reentry Program.

The University of New Mexico-Los Alamos, in cooperation with the Los Alamos Women in Science and the New Mexico Network of Women in Science, established a reentry program for women in science. Funded partially by the Women's Reentry Consortium and the National Science Foundation, this program has been very successful in recruiting students into the various UNM-LA technical programs and in placing these students in paid internships in the Los Alamos National Laboratory and elsewhere. The program, which is expected to expand its operations in 1982-83, was the subject of a very favorable site visit by the Director of the Women's Reentry Consortium in Summer, 1982.

VI. Relationship with UNM-Albuquerque

The year 1981-82 saw great improvements in coordination and communication among the branch campuses of UNM and between the branches and the main campus. Dr. Alex Sanchez, Associate Provost for Community Education, and Dr. Susan Lynch, Branch Coordinator, worked with all three branches in simplifying and standardizing procedural details, and the UNM Community Education Committee, under the leadership of Professor Patricia Duphorne, established a Branch College Task Force to deal with policy issues regarding the branches. As a consequence of these efforts, all sections of the Faculty Handbook relating to branch matters are being rewritten. Also, the UNM Faculty Senate has voted to accept branch representatives on several key Faculty Senate Committees. Greg Nunz, the UNM-Los Alamos Science Division Head, was elected to serve on the Faculty Senate Curricula Committee.

VII. Staff.

The following staff changes occurred during 1981-82. Mary Baxter was hired as Assistant Director for Student Services in August 1981, and

Tina Salazar-Langley was hired as a half-time counselor in December, 1981. Lynn Gilman served as half-time librarian during the year 1981-82, and after her resignation, she was replaced in June 1982 by Jan Hickman. Sue Pauli resigned her position as word processing secretary in March 1982 and was replaced by Myrna Marsteller. The Computer Science Department of UNM hired Dr. Walter Brainerd as a Professor of Computing Science, resident in Los Alamos. Dr. Brainerd spends a quarter of his time directing the UNM-Los Alamos Computing Center, and the rest of his time is spent teaching computer courses in the UNM-Los Alamos Center for Graduate Studies. Greg Nunz was elected by his colleagues as the head of the Science Division, and Barbara Dubois was elected to the similar position in the Humanities Division.

Report of The University of New Mexico-Gallup Campus
July 1, 1981 - June 30, 1982
Dr. John M. Phillips, Campus Director

ANNUAL REPORT

STUDENTS

The Gallup Branch is experiencing ever increasing enrollments. The spring semester, 1982, twelve hundred seventeen (1217) students were registered resulting in 558 FTE. This is an increase of 21.6% over the last spring enrollment. Fall and summer semesters also showed substantial increases.

At the end of last spring semester, 103 students had grade point averages above 3.0. Sixty-one students had grade point averages between 3.0 and 3.5. Twenty-one students had grade point averages between 3.5 and 4.0. Twenty-one students had grade point averages of 4.0. The over-all grade point average for all students at the Gallup Branch was 2.2803.

The student body at the Gallup Branch includes 51.3% Native Americans, and 12.2% Hispanics. Approximately 60% are female and the average age of the Gallup student is approximately 29.

Approximately 40% of the students at Gallup are in vocational programs. Some differences can be observed in the statistics of these students. For example, 72.5% are Native Americans while only 5.2% are Hispanic. The average age of a vocational student is approximately 27. More than half of these students have never earned more than \$6,000 per year.

CURRICULUM

The Gallup Branch has been honored by having nineteen (19) degree programs approved by The University of New Mexico during this past year. These include five (5) Associate of Arts Degrees as follows: Associate of Arts in Criminal Justice, Associate of Arts in Education, Associate of Arts in Health, Physical Education and Recreation, Associate of Arts in Human Services Work and Associate of Arts in Liberal Arts. One Associate of Science Degree was approved for the Gallup Campus and that is in Nursing. Thirteen (13) Associate of Applied Science Degrees were approved for the Gallup Campus. These are as follows: Associate of Applied Science in Automotive Technology; Associate of Applied Science in Automotive Techni-Business; Associate of Applied Science in Business Technology; Associate of Applied Science in Construction Technology; Associate of Applied Science in Construction Techni-Business; Associate of Applied Science in Criminal Justice; Associate of Applied Science in Diesel Engine Technology; Associate of Applied Science in Diesel Engine Techni-Business; Associate of Applied Science in General Studies; Associate of Applied Science in Medical Laboratory Technology; Associate of Applied Science in Welding Technology and an Associate of Applied Science Degree in Welding Techni-Business.

In addition to these degrees, five one-year Certificate Programs have been developed at the Gallup Branch. These are in Business, Automotive, Construction, Diesel and Welding. Further, four Specialist Certificate Degrees have been developed.

These are in Automotive, Construction, Diesel and Welding.

Several new programs started last fall. These include Construction Technology and Diesel Engine Technology. Both are in temporary facilities but they are off to a good start and are increasing in popularity and enrollments. The Diesel Engine Technology Department is in a portion of the Career Education Building that was initially intended for campus maintenance, storage and workshop use. The Construction Technology Department is housed in a temporary building which was donated to us from the Thoreau School District. It was moved here and completely renovated by the Construction Technology students themselves under the supervision of their instructor. They have made it into a very attractive and useful temporary building.

New courses have been developed in Computer Uses in Business and in Beginning Computer Programming. These will be offered for the first time this coming fall. Several rooms have been remodeled on the second floor of the Calvin Hall College Center to house this program.

The Welding Program is keeping on the leading edge of technological development in its area by the development of three courses in Non-Destructive Testing of Metals in Welds. These courses will be offered for the first time this coming fall. A portion of the Welding Classroom will become the Non-Destructive Testing Laboratory.

Our Nursing Program has been visited by the New Mexico Board of Nursing and was given full approval. Praise was

given for the development of curriculum and the improvement of the delivery system. Starting this fall, evening courses will be offered by the Nursing Division for the first time. This will make it possible for a student to attend evenings only and, over a period of time, complete the Nursing Program.

The Gallup Branch curriculum plan indicates that the fall semester course offerings will exceed 250. This represents nearly a twenty per cent (20%) increase in the number of course offerings over last fall.

The Gallup Branch Community Education Division has been re-organized to increase efficiency by reducing operating costs. The administration has made a solid comittment to cover the salaries of the coordinator of community education and the division secretary. However, each course and workshop must meet its own additional costs.

This division has been doing a fine and imaginative job of creating course offerings. Approximately two hundred (200) courses and workshops were offered by this division over the last year. It is expected that the type and number of these activities will remain, at least, constant. Some examples of these are: Calculator Math Magic for Young People, Typing for Kids, Navajo Weaving for Beginners, Painting and Drawing for Adults, Ceramics for Fun, Early Gallup History--A Lecture Tour, Wills and Estate Planning and many others.

CAMPUS DEVELOPMENT

During this year, a remodeling program has been completed in the Calvin Hall College Center. As a result of this remodeling, all student services are now on the first floor of the Calvin Hall Center. As students move through this area, they will find the Counselors' Offices, the Financial Aid Office, Registration, Information, Bookstore, Cashier, and the Student Lounge. All are visible and easily accessible from the central lobby area.

The area on the second floor from which Registration was moved has been remodeled into a large computer laboratory and into two additional classrooms. Several classrooms previously used by Business Technology have been remodeled into one large area making supervision of the large number of students who are served by this department much more easily accomplished. This is the area used for the individualized instruction of students using the Audio-Visual-Tutorial Method.

The Gallup Centennial Memorial Statue which is located on Campus has deteriorated into very poor condition. It is now being repaired by Robert Minicks, the same sculpturer who created it. The Campus Director has arranged to have the cost of this repair shared by several local service clubs, the student organization and the Gallup Branch.

CAMPUS EXPANSION PLAN

A Five Year Building Plan has been developed with the help of the Gallup Building Advisory Committee. This plan has been approved by the Gallup-McKinley County Board of Education, the Zuni Board of Education, and The University Board of Regents. Both Boards of Education have agreed to adopt a resolution for a bond election to help finance the intended construction.

The first phase of this construction includes a Diesel Engine Technology Building which will have a shop, a laboratory, and classroom space so that hands-on and theory teaching of diesel technology can take place in a modern facility.

The plan, also, includes a Construction Technology Building which will have shop space, classroom, and an area to permit outside building activities. This building will include space for several construction trade areas such as plumbing, house wiring, heating and air conditioning, as well as carpentry.

A new Art Building is included in this plan. This building will include a drawing studio, a painting studio, a photography studio, laboratories for jewelry and ceramics work and an exhibit hall. This is needed in order that we may promote and advance local talent in the arts that is outstanding in the Gallup area. The plan includes a Student Center which will give us facilities for student development, social activities, as well as food service facilities. The plan includes an addition to Gurley Hall and some remodeling

inside the present buildings. It will expand the library to be half again its present size. A new Learning Assistance Center will be included and the remodeling will create a number of new classrooms. The Career Education Building will be remodeled and some additions will be put onto it. This will give us a non-destructive testing laboratory, and will modernize some of the technical equipment in that building. One of the chief features of this plan is that it will create many new critically needed classrooms.

The total estimated cost of the first phase of this expansion is 7.1 million dollars. Four million, it is planned, will come from the local bond sale following an election by the people of the Gallup area. The other 3.1 million will be requested from the Legislature of the State of New Mexico through the Board of Educational Finance. This lengthy approval and election process will be carried on through next year.

PERSONNEL

For the fall semester, 1981, two new full time faculty members were employed. These were Mr. Terrence Bradfield, Construction Technology Instructor, and Mr. Matthew Kosten, Diesel Engine Technology Instructor.

For the fall semester, 1982, three new full time faculty members will be beginning their employment. These are Ms. Kea Kercheval, Business Technology; Ms. Joyce Marshall, Business Computer Instructor; and Mr. Michael Volz, English Depart-

ment.

With these additions, the Gallup Branch full time faculty will have twenty-seven (27) members. All of these new positions are due to expansion.

Dr. Hendrik de Bruin was appointed as Associate Director of Instruction in May, 1982. Dr. de Bruin came to the Gallup Branch from a full professorship at The Citadel in South Carolina. He had previously been a New Mexico citizen for many years. He served for a number of years at Eastern New Mexico University as Dean of the College of Education.

Mr. David Eisenberg has been appointed Assistant Director of Career Education. Mr. Eisenberg previously served as the Gallup Branch welding instructor. He has developed the courses in non-destructive testing, secured the needed equipment and set up the laboratory for the Gallup Branch. His new position will allow him the opportunity to apply his talents on a broader base.

Mr. Boyce Russell has been appointed Assistant Director for Administrative Affairs. In this position, he will assist the Branch Director in assigned activities and he will be in charge of the Branch in the absence of the Director. Mr. Russell has been with the Gallup Branch for many years. He has served as Chairperson of the Health, Physical Education and Recreation department and has previously served as an assistant director.

Dr. Donald Gatzke resigned from his position as Branch Director effective August 17, 1981. Dr. John Phillips, who

was then the Associate Director of Career Education, was appointed Acting Director. Subsequently, Dr. Phillips was nominated for the Branch Directorship by forty-eight of the Gallup Branch faculty and staff. In response to this nomination, he submitted his application for the position. He was interviewed along with three other finalists: Mr. Rudy Salazar, Dr. Gilbert Duran and Mr. Vincent Murphy.

Dr. Phillips was appointed by Dr. Sanchez in late November and officially assumed the position of Director on December 1, 1981.

The screening committee for selection of the new Director consisted of nine members. They were Rebecca Martgan of Window Rock, Arizona; Cal Foutz of Gallup, Lurae McCollum of Gallup, David Ruiz of Gallup, Dr. Carmen Westwick of Albuquerque, Dr. Emerine Glowienka of Gallup, Phillip Savilla of Zuni, Wayne Lewis of Gallup and Boyce Russell of Gallup.

Thanks is given here for their hard and time consuming work on this arduous task.

CONCLUSIONS

There can be no doubt that the Gallup Branch is moving ahead in all five areas: Student Enrollment, Curriculum Development, Campus Development, Future Planning and Personnel.

The relationships between the main campus in Albuquerque and the Gallup Branch has become both pleasant and constructive. This is due not only to the efforts of the Gallup Faculty and

Administrators but, in a large part, to encouragement, continual support and guidance from Dr. Alex Sanchez. Also, the many hours Dr. Susan Lynch has worked on Gallup curriculum and on arranging the many intracampus meetings have strengthened this relationship significantly.

One of the most valuable assets which the Gallup Branch enjoys is the very active community support. All community organizations and a vast number of individuals can be counted on to give full support to the Gallup Branch for any need that may become apparent.

The citizens of Gallup and McKinley County are proud to have a Branch of The University of New Mexico in their community.

THE REPORT OF THE UNM VALENCIA CAMPUS

July 1, 1981 - June 30, 1982

Omero Suarez, Director

I. HISTORY

The University of New Mexico began its presence in Belen with the establishment of a satellite center (later referred to as a resident-extension center) in 1978. In the Spring of 1981, after successful passage of a local referendum along with the Board of Educational Finance (BEF) and legislative approval, the Valencia Campus of the University of New Mexico was founded. The Branch's Advisory Board (consisting of the combined school boards of Belen and Los Lunas) as required by legislation was established at this same time.

Operation began on July 1, 1981 at the Rio Communities Center, later renamed Valley Community Plaza. The director assumed his duties at this time. Through July and August, staff and faculty were hired and equipment and materials ordered in preparation for the first semester of operation which began August 24, 1981..

II. MISSION STATEMENT

The following mission statement, though not yet formally approved by University committees, is presented in order to provide an understanding of the role and function of the Valencia Campus as a branch of the University of New Mexico:

The University of New Mexico Valencia Campus subscribes to the concept of comprehensive community education. Consistent with this philosophy, it is the goal of the college to provide, within available resources, programs and services of superior quality to meet the educational needs, immediate and future, of all the people of the community. The college encourages lifelong learning

and maintains an admissions policy that provides for all segments of the community, believing that all who can benefit from its services should be free to do so.

The purpose of this college will be to provide the following:

1. to provide a general education to all students.
2. to provide a two-year program of education, in the liberal arts and sciences, culminating in awarding of the Associate Degrees.
3. to provide a wide range of vocational and technical programs for students who will terminate their formal study at the end of two years or less to seek employment. Students completing such programs will be awarded certificates of accomplishments and/or Associate Degrees.
4. to provide a quality transfer program which will include a wide range of liberal arts and pre-professional subjects that will enable articulation to four year colleges and universities.
5. to provide community educational services.
6. to provide a program of remedial education for people whose previous educational experiences have been inadequate.
7. to provide academic advisement and career counseling services for students.
8. to provide a program of services designed to improve the cultural, economic and social environment of the community.

III. EDUCATIONAL PROGRAMS

The University of New Mexico-Valencia Campus offers three types of educational programs: 1) academic transfer; 2) technical/vocational programs offering certificates and/or associate degrees; and 3) non-credit continuing education and community service programs.

A needs assessment study conducted by UNM's Division of Continuing Education prior to the formal establishment of the Valencia Campus provided information and guidelines in the determination of initial course and program offerings.

A) The academic transfer program is designed to provide the first two years of university education. UNM Valencia Campus is authorized to offer any lower-division courses appearing in the UNM catalog for which an appropriate instructor and facilities can be obtained. Additionally, UNM Valencia Campus may design courses that respond to specific community needs. When developed in cooperation with a main campus department, these courses carry full transfer credit. Typically, only those courses falling into technical/vocational or career education are developed independently of the main campus -- thus, providing maximum transferability and program flexibility for those students continuing in baccalaureate programs.

During the academic year 1981-82, two associate degrees were developed and approved by UNM colleges, committees and Faculty Senate. These degrees are: Associate of Arts in Liberal Arts and Associate of Arts in Education, the latter designed primarily as training for teacher aides. Also, an Associate of Applied Science in Corrections Studies, developed in response to requests from the State Department of Corrections, has been approved by two UNM faculty committees and awaits formal sanction by the Faculty Senate in Fall, 1982.

B) The technical/vocational division initiated in the Fall, 1981 semester consisted of three departments offering one year certificates in Business Technology, Computer Science and Electronics Technology. These certificates (consisting of approximately 39-45 credit hours) provide skills and training that make students immediately employable. Each of these programs is aided in curriculum development and planning by individual advisory boards comprised of faculty members, local citizens and representatives from business and industry.

In addition to these certificate programs, courses in solar energy, adobe construction and welding were offered.

UNM Valencia Campus held its first convocation ceremony on July 29, 1982 and four certificates in Electronics Technology were awarded.

- C) Throughout the academic year, non-credit courses were offered at the Valencia Campus under the auspices of the Belen Chamber of Commerce, the Belen High School and UNM Valencia Campus. The total number of students served through the Continuing Education Division approximated 200.
- D) The Fall, 1981 semester saw the establishment of a Developmental Studies program. Courses offered in this division are sub-baccalaureate or remedial in nature and include skills courses in English, Math and Reading which prepare students for college-level work. This division also offers courses that prepare students for ABE/GED (equivalency) exams.
- This division also houses the Guidance Information System (GIS), a computer information bank for career exploration and planning.

IV. ENROLLMENT DATA

During the Fall semester of 1981-82, the Valencia Branch enrolled 320 students and produced 2276 credits for 152.0 FTE. Spring, 1982 saw a 47% increase in head-count to 531 students, 3061 credits and 204.0 FTE. The total FTE for the year was 178, exceeding first year projections.

MALES:	366	-	85 FTE
FEMALES:	485	-	93 FTE
	TOTAL		178 FTE

VALENCIA CAMPUS:	Academic FTE	-	89
	Vocational FTE	-	52

MINIMUM SECURITY/	Academic FTE	-	23
MEDIUM SECURITY:	Vocational FTE	-	14

TOTAL 178 FTE

V. FIVE YEAR MASTER PLAN

A Committee of fourteen was assembled in April, 1982 for the express purpose of formulating Valencia's five-year plan. This document will contain a study of projected needs in the areas of facilities and programs. The endeavor is the joint effort of Schaefer and Associates, the UNM office of the Architect and UNM Valencia's Planning Committee comprised of citizens from the Belen-Los Lunas area.

Projected growth in enrollment will require expanded facilities within two-three years. Classes currently take place at the Valley Community Plaza, Los Lunas High School and at the Minimum and Medium Security facilities. The need for additional classroom space will make it imperative to build a permanent facility within the next four years.

VI. FACULTY/STAFF

With the exception of the technical/vocational programs which employed three full-time faculty members, UNM Valencia's faculty is 100% part-time. The faculty consists of well qualified individuals drawn from the Belen-Los Lunas and Albuquerque areas.

Teaching quality is monitored in three phases: approval by main campus departments (in the case of academic courses), classroom visits and use of the UNM instructor evaluation forms -- ICES.

Administrative and support staff employed 1981-82 include the following:

Dr. Omero Suarez, Director	July 1, 1981
Dr. Amarante Fresquez, Assistant Director for Instruction and Student Services	August 3, 1981
Dr. Job Ebenezer, Assistant Director for Technical-Vocational Programs	July 27, 1981

Ms. Rena Griego, Administrative Assistant (Admissions and Registration)	April 3, 1978
Ms. Georgia Garcia, Staff Assistant (Community Education)	July 20, 1981
Ms. Roz Bridger, Staff Assistant (Personnel and Bookstore)	August 4, 1981
Mr. Roland Wildman, Accounting Manager	August 28, 1981

PROFESSIONAL ACTIVITIES

Outside professional activities and research in which UNM faculty and staff were involved this past year include:

- Dr. Omero Suarez - NMACJC Annual Convention-Panel Discussion/Group Leader
- Dr. Job Ebenezer - Mexico City-International Exhibition Solar Energy
- Dr. Amarante Fresquez - North Central Association Accreditation Team
- Ms. Rose Ann Hernandez - MANA - National Convention Organizer

THE REPORT OF THE COLLEGE OF ARTS AND SCIENCES

July 1, 1981 - June 30, 1982

F. Chris Garcia, Dean

COLLEGE OF ARTS AND SCIENCES

Annual Report, July 1, 1981 - June 30, 1982

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I. ADMINISTRATION

There were no changes in staffing among the academic deans in the college office. Former Administrative Coordinator Lynette Wilson was promoted to Assistant Dean. James S. Findley stepped down as chairperson of the Department of Biology, and Donald Duszynski became chairperson. Richard Hood acted as chairperson of the Department of Communicative Disorders while Lloyd Lamb was on a year's sabbatical. Richard E. Murphy was on sabbatical during the year, so Rodman Snead served as Acting Chairperson in the Department of Geography; he was subsequently appointed as chairperson. Professor Wolfgang Elston served as Acting Chairperson of the Department of Geology as Rodney Ewing was on leave during semester II of the 1981-82 year. Garland Bills completed his term as chairman of the Department of Linguistics; Associate Professor Alan Hudson-Edwards was appointed acting chairperson. Sabine Ulibarri brought his long tenure (nine years) as chairperson of the Department of Modern and Classical Languages to a close. Tamara Holzapfel of the Spanish division was appointed as his replacement. In the Philosophy Department, Howard J. Tuttle, Chairperson, was on sabbatical the first semester. His duties were carried out by George F. Schueler, Acting Chairperson, who continued as acting chair for the second semester. In the Department of Political Science, Robert J. Sickle's terminated his service as chairperson at the end of the first semester and Associate Professor James L. Ray was appointed as his replacement for the second semester. Pedro R. David was on leave without pay during the fall semester, so Gilbert W. Merck served as acting chair of the Department of Sociology for that period. Professor David's nine years as Sociology chairperson were concluded, and Professor Larry Ross of the State University

of New York at Buffalo became chair. Table 1 lists the chairpersons and program directors in the College of Arts and Sciences for 1981-82.

The Arts and Sciences Graduate Committee continued to develop the procedures and responsibilities of the graduate program of the college. The annual report of the A&S Graduate Committee is appended below. The following A&S committees function during the academic year (Table 2): Committee on Tenure; Promotion Committees in the Humanities, Natural Sciences and Mathematics and Social Sciences; Human Subjects Committee; Academic Policy and Curriculum Committee; Committee on Southwestern Studies; Teaching Resources Committee; Student Advisory Committee; Latin-American Studies Advisory Committee; American Studies Committee; Sabbatical Review Committee and Graduate Committee.

The Committee on Southwestern Studies was established during the academic year in order to explore the possibilities of creating an interdisciplinary program which would focus on the American southwest. Representatives from A&S departments whose faculty have interests in the southwest and faculty from American Studies, Chicano Studies and Native American Studies were appointed to the committee. The committee will be making recommendations to the dean on the establishment of a southwestern studies program. In keeping with the concern by the college for the quality of instruction, the Teaching Resources Committee, composed of faculty in the college who are particularly accomplished teachers or have a great deal of expertise on this subject, began to produce a newsletter on teaching and served as a referral source for pedagogical questions and problems.

II. ACADEMIC STANDARDS AND PROGRAMS

A&S Faculty Action During the Year 1981-82

The Arts and Sciences faculty took the following actions: (1) Approved a proposal by the Department of Chemistry to replace their major requirement of Chemistry 351, Advanced Quantitative Analysis with Chemistry 454L, Instrumental Analysis. Bachelor of Arts majors in Chemistry will be required to take another three hours above 300. (2) Approved a proposal by the Department of English to require major students to take three classes of Chaucer, Shakespeare and Milton, thus increasing the requirement from 33 hours to 36 hours. (3) Approved the proposal for a change in Russian Studies minor course work. Twenty-three hours would be required instead of 21. The major in Russian Studies was reduced from 65 hours to 56 hours. (4) Increased upper division hours for graduation from 40 to 42. (5) Approved requiring the successful completion of English 102 for all students seeking admission to Arts and Sciences except for transfer students and those who have satisfied the writing requirements by making acceptable scores on national exams. This would replace the Communication Skills Test for all students other than transfers from other institutions and special cases. (6) Approved a proposed Ph.D. program in optical sciences. The program offers two concentrations at the doctoral level: (a) optical physics and (b) optical engineering. The degree will be offered in cooperation with the College of Engineering and administered by an inter-college committee. (7) Approved a proposal by our Department of Communicative Disorders to initiate a BS degree program in sign language interpretation. The program will include both a major and a minor in sign language and nonverbal communication. (8) Approved a proposal by the College of Fine Arts for a

minor in Dance from the Department of Theatre Arts for students majoring in the College of Arts and Sciences. The minor would require 24 credit hours.

The curriculum committee continued to examine general education in the liberal arts and the possibility of a core curriculum. A proposal was put forth by the committee for a pilot project in general education which would result in the creation of a few interdisciplinary courses which would synthesize the contributions of several disciplines and bring them to bear on a particular subject. The courses would be team-taught, seminar style and would be available to students as an alternative to our general education group requirements. The proposal was brought to the attention of the chairpersons and the respective faculty of each department. Consideration of the proposal will continue into the next academic year.

Other Related Activities

The college continued its involvement in the cooperative education program in conjunction with the efforts by Mr. Lonnie Theye, Director of campus programs for cooperative education. Associate Dean Elinore Barrett was assigned special responsibility for coordinating the student involvement and participation in the program.

The college participated in Legislators' Day. Several state legislators visited and were given tours by our Departments of Anthropology and Geology.

In addition to the reexamination of our general education/core curriculum in the liberal arts which was being conducted by our curriculum committee, the other major area of curricular investigation was that by the newly constituted committee on southwestern studies. The committee

was investigating the possibility of establishing a program which would bring the unique resources and strengths of the University of New Mexico, and more particularly the College of Arts and Sciences, to bear on a topic of great relevance and interest to the public in this area.

The college continued to participate heavily in the university (nee "basic") skills program offering courses in natural sciences, social science, English and mathematics. The impact was most noticeable in our Departments of Mathematics and English whose enrollments were burgeoning, particularly at the lower skill levels.

A faculty opinion survey was conducted in the late spring of 1981, and the report was distributed to all faculty of the College of Arts and Sciences in January 1982. (A copy of the report is appended.) Three hundred fifty-two members of the Arts and Sciences faculty completed and returned the questionnaire. One message emerging from the results was that a majority of the faculty was supportive of the basic/university skills programs in Arts and Sciences only until alternative programs are available. A majority of the responding faculty also agreed that teaching performance should be included in evaluations of departmental budget allocations. With regard to grades, 47% of our faculty thought that our grade assignments were inflationary, that is, meant less than an equally high GPA from most other universities in the United States.

Although the college officially continued to implement its policy of affirmative action in the recruitment of qualified women and ethnic minority faculty, a large minority (42.9%) of the faculty responding to the survey disagreed that this effort should continue. The results of this survey also reinforce the importance of a southwestern orientation in our college, as a strong majority of faculty rated a southwestern

orientation as being important to them in their decision to come to UNM, and also of importance to their personal interests and their department's research interest.

The faculty's great concern for the research mission of the university was reflected in the survey and also found expression in the campus debate over mini-sabbaticals and teaching work load which occurred during the 1981-82 academic year. When asked about the factors they would consider important in deciding whether to accept an offer at a university, the largest percentage of persons rating any item as of utmost importance was in the area of having "more research released time." A section of items rating the importance of certain goals at the university and asking for an evaluation of the attainment of these goals was included. There emerged a large gap between the ideal and the reality.

Faculty morale was disturbed by the potential loss of the seventh semester mini-sabbatical. This sabbatical is very important to the research efforts of many of our faculty, who, being relatively isolated, must make use of sabbatical leaves to visit distant research sites, including other countries or library and research centers in other areas. An on-going program of research requires frequent use of research facilities, and the mini-sabbatical provides faculty an excellent opportunity for this. We stand solidly behind the preservation of the seventh semester sabbatical as being essential to not only the research but also the instructional quality produced by our faculty.

There was also considerable discussion over the teaching work load. This was in response to a renewed effort by the administration to require nine semester hours of teaching every semester by all faculty unless individual and special exceptions were approved in advance. Although the

university teaching work load formula (UNM Nine) provides weights for criteria other than classroom teaching hours, it was felt by our college that these were not being given due credit. Concentration on classroom contact hours was misleading and might even be harmful to the quality of instruction outside of classroom contact and certainly was detrimental to high quality research. Comparable universities in the region generally have much lighter teaching loads. An emphasis on increasing the quantity of classroom contact hours was seen as detrimental to both the quality of instruction and to the research and service missions of the university and its faculty. It was felt that a clearer statement of the mission of the university and the faculty's relationship to their involvement in that mission was badly needed.

III. RESEARCH AND SCHOLARLY ACTIVITY

Even though faced with a shortage of, and diminution of, monies available for sponsored research, the faculty of the College of Arts and Sciences continued their high levels of research and scholarly investigation. An increase in the amount of sponsored research again was noted. The research and publication record of the faculty for 1981-82 is given in detail in departmental reports. New research and training grants for 1981-82 plus funded renewals numbered a total of 171 grants (Please see Table 14.); 84 faculty members were involved as principal investigators of these grants. These grants totaled almost \$5.5 million and brought in \$1,062,764 in overhead. The college's leading departments in descending order of research monies are:

<u>Department</u>	<u>X \$1,000</u>
Physics and Astronomy	\$1,380
Biology	893
Chemistry	632
Geology	582
Mathematics	562

Thirteen of our twenty departments, plus most of our operating divisions and offices, secured outside research monies.

One of the most important benefits of outside funding is the support given to graduate students, plus the acquisition of research equipment and supplies. Table 15 shows the distribution of GAs and TAs among departments as well as graduate trainees, research assistants and project assistants supported by outside funds.

The list of continuing or new A&S related periodicals includes the Journal of Anthropological Research, Harry Basehart, Editor; New Mexico Historical Review, Richard Etulain, Editor; The Blake Newsletter, Morris Eaves, Editor; Shakespeare Studies, Barry Gaines, Editor; American Antiquity, Jeremy Sabloff, Editor; The Historian, A Journal of History, Gerald Nash, Editor; The Western Journal of Speech Communication, Lawrence Rosenfeld, Editor; Latin American Research Review, Gilbert Merckx, Editor; Hispanic American Research Review, John Johnson, Editor; Southwestern Review of Management and Economics, Roger Norton, Co-editor; and New America, Charles Biebel, Editor.

In addition college faculty were closely involved with the operations of two research institutes under the direction of the Office of the Provost. The Latin American Institute (LAI) involved a great many Arts and Sciences faculty. Named as executive director of the institute was Professor Gilbert Merckx of the Department of Sociology. The associate director and academic coordinator was Dick Gerdes of the Department of

Modern and Classical Languages. The academic coordinator was also chairperson of the newly combined A&S Dean's Advisory Committee on Latin American Studies and Interdisciplinary Committee on Latin American Studies. The other new research institute with which Arts and Sciences was closely connected was the Southwest Hispanic Research Institute (SHRI). A search committee involving several faculty members and headed by Dean Garcia was active throughout the year in searching for a director for the institute.

IV. HIGHLIGHTS FROM STATISTICAL TABLES

Table 5 shows a significant increase in the number of students enrolled as Arts and Sciences majors. In the fall semester there was an 18.7% increase, followed by a 9.8% increase the second semester. The number of student credit hours generated by the College of Arts and Sciences decreased slightly (-1,784 SCH; -0.63%) but still constitutes well over half (54.3%) of the total student credit hours at the University of New Mexico. There are a few A&S departments that are gaining enrollment, some at a tremendous rate, most noticeably, the Department of Mathematics and Statistics, which is gaining 3,000 to 4,000 student credit hours each year--an 8% to 10% growth rate. Significant growth is also indicated for the Departments of English, Physics and Astronomy and to a lesser extent for American Studies, Journalism and Psychology. Unfortunately, because of the inflexibility of educational staffing patterns and the lack of adequate state funding, we are not able to adjust readily the number of faculty in accordance with the changes in student enrollment patterns. Departments experiencing rapid growth in the past few years are understaffed, particularly with full-time faculty.

V. CONTINUING PROBLEMS AND PROSPECTS

Unfortunately, many of the problems and prospects reported in the 1980-81 annual report continue to impair the quality of our performance in teaching, research and service.

(1) Staff Shortages.

Based on evidence provided by the departments, the college continues to be very short of faculty and staff. Requests were submitted for an additional 16 faculty FTEs, 26 graduate assistants and 7 staff/clerical positions. This is a minimum number needed. The shortage of full-time faculty in rapidly growing departments has already been mentioned. Several of our departments continue to be critically short of secretarial/clerical assistance, which imposes serious difficulties on the production and management of instructional and research materials. Paradoxically, even though we have been able to secure some automated and computerized research and office equipment, such as mini-computers and word processors, this has only compounded the need for additional staff support. Many more graduate and research and teaching assistantships are needed. No additional TAs have been allocated to Arts and Sciences for over a decade.

(2) Equipment Maintenance Funds.

These continue to be practically nonexistent. Several expensive and necessary pieces of instructional and research equipment have been secured over the past few years, mainly through the efforts and consideration of Associate Provost Joseph Scaletti. Yet very little money has been available for the maintenance of this equipment. Because of the inevitable deterioration of mechanical and electronic equipment, some of it either has been rendered useless due to lack of maintenance or wherever possible faculty have been taken away from their instructional and research duties to function as maintenance service personnel.

(3) Supplies and Equipment.

Financial resources available for purchasing supplies and equipment are critically and increasingly inadequate. Our departments typically run out of money for office supplies, telephone usage, copying and equipment before the school year is over.

(4) Travel Monies.

Money for travel to professional conferences is ludicrously inadequate. Our faculty members are expected to be aware of the latest developments in their profession and to present the latest research findings to their colleagues. This is particularly important at an emerging and yet somewhat geographically isolated university such as UNM. Yet, travel support to professional conferences is minimal. (See report on travel.)

(5) Salaries.

We have continued to lose our competitive position on salaries. Beginning salaries remain competitive, but the gap between the salaries we can offer continuing faculty and those available from outside institutions, both in the private and academic sectors, is becoming critically large. The past year we lost faculty in biology, geology and speech communication because we are unable to offer competitive salaries. The salary problem is particularly acute among our senior professors, especially in the sciences. The "market compression" of salaries almost has reached the point of being intolerable, as some senior faculty find their salaries close to those offered to new faculty members. Graduate assistant stipends also remain below those of comparable institutions causing considerable difficulty in attracting the best graduate students. (See report of the English Department for specifics.) The salaries of our nonfaculty staff are also generally below levels for comparable work off this campus.

A special problem is the lack of administrative pay for chairpersons who need to perform administrative duties during the summer. Most other institutions, including our sister institutions in this state, pay administrative stipends of an additional 1/9 or 2/9 annual salary to chairpersons who administer their departments during the summer. A substantial amount of work, especially in our large departments, must necessarily be carried out by chairs at the end of the academic year as well as prior to the new academic year. Prior to 1981 most chairs were not paid at all for the administrative activities performed during the summer. In the 1980-81 year, a start was made toward remedying this inequity; this practice continued the current past year with chairs being paid a very small amount, certainly an inadequate amount ranging from 2% to 8% for their summer administrative duties. As our enrollments, particularly those in the summer, continue to expand we must garner support for at least one month's administrative pay for chairpersons.

(6) Affirmative Action.

The college continues to be committed to the principles of affirmative action. Although in general we remain considerably below our goals in hiring women and ethnic minority faculty, some minimal progress has been made, as a few ethnic minority and women faculty members were hired this past year. Continued efforts in this direction will be made.

(7) Sabbaticals.

The college has taken a strong position that sabbaticals are essential for its faculty development of research productivity and instructional skills. As mentioned earlier, we continue to be very much supportive of our current sabbatical policy, including the seventh semester "mini-sabbatical." Every effort is being made at the departmental and college

levels to insure that only productive faculty with well thought-out and significant proposals for sabbatical leaves are recommended for them. The accomplishments of faculty who have taken sabbatical leaves over the past few years demonstrate the importance of preserving and protecting this important component of academic development.

(8) Physical Plant Space.

We continue to be short of space. Badly needed are additional room office spaces for instructional staff as well as for our teaching and research laboratories. Our science departments must be provided with laboratory and office space to meet the increased demands upon them. Some of our social science facilities such as those in Economics and Political Science are also inadequate.

VI. DEPARTMENTAL REPORTS

The reports of our 20 departments and the several divisions and offices of our college (appended) deal with matters of curriculum review and change, space problems, scholarly activities of members of the faculty, service and professional societies, scholarly meetings held or to be held at UNM, special instructional programs, special research activities, visiting scholars and lectures, activities designed for the general public and the successes and frustrations uppermost in departmental consciousness. These reports are an integral part of the A&S annual report (but they are not reproduced because of their bulk). Interested readers are invited to borrow a copy of any departmental report from the A&S office, the Secretary of the University or the department itself.

ANNUAL REPORT OF THE A&S GRADUATE COMMITTEE
Richard C. Metzler

According to the statement of Policies and Procedures of the Arts and Sciences Graduate Committee, the A&SGC is required to "present an annual report to the A&S faculty summarizing actions taken within the area of its authority." This report follows. Faculty desiring more detailed information are invited to consult the minutes of the A&SGC which are transmitted to the departmental representatives on the A&SGC. Additionally, a file of minutes is maintained in the office of Associate Dean R.C. Metzler, A&SGC chairman.

The A&SGC met 13 times during the 1981-82 academic year and some of the standing subcommittees met during the year. The A&SGC elects two representatives to the Senate Graduate Committee each year. Our representatives were Professor Gorbet from Anthropology and Professor Finley from Physics. Professor Finley was elected chairman of the Senate Graduate Committee for 1981-82. For the 1982-83 academic year the committee elected Professor Morrow of Chemistry as our representative for a two-year term and Professor Barbour as our representative for a one-year term.

Following are summarized minutes of the A&SGC meetings for 1981-82.

Fall Semester

1. September 11, 1981. Dick Metzler was re-elected chairman of the committee. The main topic of discussion was the concern of the Mathematics and English representatives about low GA-TA stipends.

2. October 15, 1981. The chairman reported that eight departments responded to an inquiry concerning GA-TA salaries and the consensus was that they were too low. Dean McDermott reported that a survey of 22 neighboring schools on GA-TA compensation was being analyzed.

3. October 30, 1981. The committee agreed with the Senate Graduate Committee proposal that representatives from the A&S Graduate Committee be elected for staggered two-year terms.

4. November 13, 1981. The proposal of the Physics Department for a new degree in Modern Optics was discussed and endorsed.

5. November 24, 1981. The subcommittee asked the committee for guidance concerning a student's appeal of a negative decision by the Geography Department. The committee voted to grant the student an extension of the five-year limit (on work submitted for the Master's degree) until the end of the Spring 1982 semester.

Spring Semester

1. January 29, 1982. The committee discussed the suspension of a Chemistry TA. The department protested the suspension by the graduate office which occurred late in the second week of the semester. After considerable discussion the committee voted to reinstate the student as a graduate student and a teaching assistant for the Spring semester.

2. February 12, 1982. The committee continued discussion of the suspension policy for graduate students with particular reference to the graduate students in Chemistry. Dean McDermott pointed out that the Faculty Handbook and the Graduate Bulletin state explicitly that an assistantship is, in part, an academic honor; it is inconsistent with this policy to award assistantships to students on probation. (Several Chemistry students were in this position.) Professor Morrow of Chemistry responded that part of the problem was due to a disagreement on calculation of graduate GPAs. In any case, staffing the laboratory sections would be impossible without those TAs presently in academic difficulties. The committee agreed to continue discussion of the matter at its next meeting.

3. February 19, 1982. The committee reconsidered the case of the Chemistry graduate student whose suspension had been lifted by the committee. Professor Schaeffer spoke on behalf of the Chemistry Department. He pointed out that Chemistry has been quite demanding of its students with respect to their performance on national exams; students who do not measure up after several attempts are terminated. The student in question had performed quite satisfactorily on the national exams. Furthermore his teaching had been quite highly rated by his students and his supervisor. Professor Schaeffer felt that he should not be terminated in the middle of the year by rigid adherence to regulations.

Dean McDermott responded that the regulations were faculty rules not administrative policies and the low grades the student had received came from Chemistry faculty members. There appears to be inconsistency between the grades awarded and the performance on national exams.

The committee voted to reaffirm its action of January 29, which lifted the student's suspension.

4. March 5, 1982. The committee considered the Senate Graduate Committee's request for input on the matter of proposed changes in the amount of hours which could be transferred from non-degree or extension credit to graduate credit. The matter was tabled until individual departments could be consulted. The sense of the committee was that procedures for approval of extension graduate faculty should be tightened to ensure higher academic standards for extension courses.

5. March 12, 1982. The proposed increase in the number of hours which could be transferred from non-degree credit to graduate credit was supported by the committee but the proposal to support the increase in hours which could be transferred from extension credit to graduate credit was defeated.

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6. April 2, 1982. Professor Barbour reported on the Committee on GA-TA salaries and work loads. A 10% raise was obtained for the GAs and TAs which Professor Barbour felt was inadequate. A subcommittee was appointed to compose a statement concerning minimum academic qualifications for a GA or TA appointment. The committee agreed to an exchange of representatives between the A&SGC and the College of Education Graduate Committee.

7. April 16, 1982. The subcommittee on academic qualifications of TAs recommended that an additional category of TAs be created to alleviate the staffing problems encountered in Chemistry and, to a lesser extent, in the other physical sciences. For this category of TA the scholastic standards would not be as high; marginal students could hope to use this category while proving themselves qualified for regular TA status. After considerable discussion the subcommittee report was accepted. Double-listing of courses at both the 400 and 500 level was discussed next. The committee voted to support the Senate Graduate Committee's recommendation that no more double-listing be allowed.

8. April 30, 1982. A change from letter grades to credit-no credit in Psychology 534L and 536L was approved. A proposal for an alternative dissertation that would incorporate previously published material for the most part was discussed. The committee agreed to submit the proposal to the Senate Graduate Committee as a proposal endorsed by the A&SGC and recommended as university policy. Representatives were elected to the Senate Graduate Committee.

Subcommittee Activities

The subcommittee on students dealt with several student complaints and selected recipients for two small grants from Mountain Bell. The

subcommittee on faculty served as the dean's advisory committee on sabbatical leave requests.

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ANNUAL REPORT ON SUMMER SESSION
Richard C. Metzler

In October 1981, the departments submitted their summer budget requests to the College of Arts and Sciences. These came to a total of \$490,000 as calculated in terms of 1981 salaries. The provost's allocation in November 1981 was for \$471,000 plus \$18,030 in tuition refunds for a total of \$489,030. When the summer budget was received from the provost in March 1982, the usual increase to account for faculty salary increases resulted in a budget of \$520,100. A&S department allocations totaled \$520,093 on June 3, 1982, but additional sections in English, Mathematics and Statistics, and Modern and Classical Languages and other miscellaneous expenses increased the outlay to \$525,040 on July 15, 1982. Enrollment in A&S summer courses increased 28.6% from 873 in 1981 to 1,123 in 1982.

The German and French summer language programs in Taos were in their third year of direct A&S financing this summer. Enrollments were up from 58 to 82 in the German school and from 31 to 38 in the French school. The International Programs in Mexico and Spain enrolled 23 and 16 students respectively. Additional arrangements were made between the University and the University of Granada concerning the program in Spain which now has a permanent base in Almeria.

The Journalism department organized a special summer offering: the Will Harrison Memorial Seminars. Henry Trehwitt, a correspondent for the Baltimore Sun, was the instructor. The three seminars each had an enrollment of 12-15 students and featured lectures by several local media figures. All participants found it a very valuable experience.

ANNUAL REPORT ON TRAVEL
Richard C. Metzler

The travel budget for 1981-82 was \$41,475 which represented an increase of 5% over the previous budget. We continued our policy of supporting one trip only at a level of 60% of the coach fare. All the funds were committed by October and we started a waiting list at this time. Due to cancellations we were able to handle every first-trip request and even ended the year with a surplus due to last-minute cancellations.

The amount of reimbursement for a traveler had been calculated at a fixed percentage of the coach fare. However at the present time coach fare has become an artificial rate which very few travelers pay. As a result we have decided to limit the share paid by Arts and Sciences to a fixed percentage of the "lowest fare with no restrictions on time of flight or time of travel."

In order to help make up for budget shortfalls in other areas, the Arts and Sciences Council of Chairs agreed to reduce the 1982-83 travel budget by 16% to \$35,000. As a result the restriction to one trip per faculty member is still in force and the fraction of support has been reduced from 60% to 50%.

The increase authorized by the administration for the 1982-83 travel budget was 5%. This would have resulted in a budget of \$43,550. The reduced budget provides savings of \$8,550. Assuming this amount were to be applied to faculty salaries (always the top-priority item in any faculty survey), it represents about \$21 per Arts and Sciences faculty member. If this amount were available to the travel budget it would help 25 to 30 A&S faculty members travel to professional meetings to represent the University and the College to the academic community.

For the last two years we have been forced to turn down extremely worthwhile second-trip requests from A&S faculty and we have no knowledge of how many first-trip requests were not even made because the faculty member was not able to afford the 40% unreimbursed share of travel plus the away-from-home living expenses. This was due to a woefully inadequate budget. The administration authorized a 5% increase both years which was far under the rate of inflation. How long will it be before it will be financially ruinous for any faculty member without special grant support to travel to a professional meeting? We have been asked to aspire to excellence in some areas while in the area of travel support we have a long way to go to achieve mediocrity.

ANNUAL REPORT OF THE A&S ADVISEMENT CENTER
Julian E. White, Jr.

The annual report of the Advisement Center of the College of Arts and Sciences will be briefer this year and hopefully in future years because so much of our expansion and planned expansion of services to students has now been accomplished and already reported. These day-to-day, "bread and butter" services continue.

Statistics

During the period covered by this report the Advisement Center personnel talked in person with at least 10,200 students. Approximately 3,000 students were advised by telephone. An accurate count is difficult because during very busy periods the advisers often cannot take time to log every visitor and phone advisement. The above figures do include Kirtland Air Force Base personnel, which will not be the case in subsequent years now that Admissions and Records has taken over that operation.

Personnel

Dr. Susan Lynch was "borrowed" by the Associate Provost for Community Education for half of her time during the period from July 1 to December 31 and on January 1, 1982 she was named Branch Coordinator in the office of the Associate Provost for Community Education and now works with Alex Sanchez on a full-time basis. Because of the dramatic increase in the numbers and services provided at KAFB and in processing KAFB material on campus, Sharon Donahue needed to spend the majority of her time on this operation. Frequently Polly Keightley was also needed at KAFB to handle students there while Sharon was processing on campus. Accordingly we hired in late August an additional employee who did not work out and was released on October 30. In November we hired on part-time basis, hours

flexible as needed but not normally to exceed 20 hours per week, two very capable graduate students in the Department of Psychology, Jack Crossen and Alan McFarland. These gentlemen were quickly trained and have reached a high level of proficiency. The idea of using part-time graduate students has been imminently satisfactory to us as well as to the students and we intend to continue the practice. At the end of the report period, Sharon Donahue was added to the Admissions and Records staff in the position of Education Coordinator. Her responsibility will be to coordinate a program that provides individualized advisement, admission and registration services to KAFB students at UNM. The KAFB program "developed from an initial volunteer effort by the Arts and Sciences Advisement Center to provide counseling at the base on a part-time basis to interested students." Due in large part to Sharon's efforts, enrollment of students at KAFB has tripled in the two years she has been there, and continued growth is projected. The A&S effort gradually expanded to include additional services primarily related to Admissions and Records until the new A&R position was obtained and Sharon transferred to fill it. So ends the A&S Advisement Center involvement at KAFB on what we consider a very successful note.

Pre-Professional Advisement

The reorganized (see Annual Report for 1981) Health Sciences Advisory Committee has been functioning throughout the past year. During the report period 14 applicants to medical school or dental school were interviewed and screened and letters of recommendation prepared. Already by this date (August 23), we have interviewed seven applicants for the Early Decision Plan at the UNM School of Medicine and one dental school applicant. This would apparently indicate that as more students become

aware of the HSAC, more will avail themselves of its services. Moreover, most medical schools require screening by a college HSAC if one exists, so we anticipate an increase in HSAC activities. Each applicant requires about 5-6 man hours of work from the interviewing component of the committee--three hours by the three interviewers and another two hours minimum to write up the interview results and impressions, to arrive at a consensus recommendation, and to prepare the letter of recommendation. These hours do not include the time spent by Dr. Guido Daub and Dr. John Trujillo who, added to the three interviewers, comprise the credentials component of the HSAC. In an effort to insure "quality control" and do as helpful a job as possible for the medical schools, we are planning to request permission from the UNM School of Medicine to observe portions at least of their early selection process. We also plan to meet with Deans Klepper and Atencio and other appropriate medical school personnel for their input and suggestions on our procedures and selections. By these means we hope to learn better what the medical school is looking for, how helpful our evaluations are and what we may do to improve them. While this HSAC function is not yet a major part of our activity, we regard it as extremely important and are anxious to do as good a job as possible.

"Not Normal" Services

In addition to the usual statistics and reports on both continuing and "new" activities, we have decided this time to include data on students' requests for information and advisement which might be considered in areas which we would normally not expect to provide services. In this connection we have observed two interesting phenomena: (1) when students don't really know where to go, many tend to come to Arts and Sciences for advisement--natural in view of the broad base of our college; (2) students

tend to develop a personal attachment or dependence on an adviser and quite often return to this adviser for "personalized" service even if in another degree-granting college or in graduate school.

An additional service of the Arts and Sciences Advisement Center which seems to be burgeoning recently is the preparation of Veteran's Administration Graduation summaries. These are informal degree progress reports required by the VA for continued student funding. These students do not yet have the 90 hours toward a degree which are required for a formal application for graduation and the accompanying degree check. This is a very time-consuming service. Forty to 60 of these "unofficial" degree progress reports were completed for VA-funded students during this report period.

Seventy to 80 students enrolled in some portion of the University Skills Program were seen, primarily in the pre-registration period in August and November. Most of these students need in-depth advisement about the university in general and the University Skills Program in particular. They do not seem to realize the meaning of the program nor that they will not ordinarily receive credit towards a degree for university skills courses. Advisement for these students is therefore often very time-consuming and complicated.

Seventy-five students came to the A&S Advisement Center for advisement on pursuing degrees in Engineering. These were, of course, referred to the College of Engineering Advisement Center. Likewise, 25 students seeking graduate advisement were referred to the Graduate Bulletin, Office of Graduate Studies, and major departments. We also received many requests for information on degrees in Police Science and/or Criminology. Such students are generally advised to pursue a degree in Sociology with

a concentration in criminology-type courses.

Kirtland Air Force Base

Kirtland Air Force Base activities proceeded apace with a considerable increase over the expansion of services the previous year. During the report period Sharon had regular help from Polly during July, August, September and October. During this time about 1,680 personal contacts were made with persons interested in various UNM programs. Four hundred twenty-five students were registered for 2,120 credit hours--an average of 5.2 credit hours per student. Tuition and fees from KAFB personnel amounted to \$55,000. All UNM and military paperwork was processed by Sharon as chronicled in an earlier report. Sharon also participated in a special Air Force Weapons Laboratory session in which engineering students on the graduate level were invited to pose questions about courses, programs, enrollment procedures, tuition assistance programs, etc. Two members of the UNM Engineering faculty were also present. Sharon also designed ads for FOCUS, coordinated efforts between the KAFB Education Office and UNM Cashier's Office and Admissions and Registration. She also processed about 30 drop/add and other program changes. Prior to the mid-November pre-registration Sharon spent most of her time advising and counseling prospective students of all ages about academic programs and the experience of returning to school. These were military, dependents, and civilian employees--many of whom were transients and unfamiliar with either campus or city. Sharon has also counseled education officers regarding UNM academic programs, services, policies, procedures, etc.; updated UNM section of the base education pamphlet, attended CCAF and military graduations, luncheons, meetings; worked in conjunction with other institutions represented at KAFB in coordinating UNM course work

with their curricula; coordinated information between base education office and UNM Records and Accounting. In this position Sharon runs the gamut from assuring an older woman that she can "compete" with 18 year-olds to helping a young airman without transportation figure out how to take a couple of classes while on a changing work shift--interesting and challenging work and ultimately most satisfying.

Testing

Testing of students to determine their interests and possible aptitudes has expanded tremendously since this service was begun last year. Polly Park Keightley is the primary adviser involved in testing and test evaluations. She is currently training Jack Crossen in this area so we will have two staff members qualified to administer and evaluate. Sixty-eight Strong-Campbell Interest Inventory tests were evaluated during the report period as well as 13 Major-Minor Finder tests. The latter has now been discontinued generally because we feel that its value is negligible in comparison to the Strong-Campbell. It remains available, however, for students who are in a hurry and do not wish to wait for the off-campus scoring of the Strong-Campbell.

Service to Other UNM Organizations

Advisers, as usual, participated in many miscellaneous "extra-curricular" activities which either expand our services or provide to our staff information to increase professionalism and efficiency. In November Sharon Donahue, Polly Keightley and Diane Rawls participated in the Showcase for Technology held at the Albuquerque Convention Center, manning the UNM information table and distributing information.

The same three young ladies organized and presented three group advisement sessions in November; two afternoons and one evening. The

purpose of these sessions was to disseminate general information about Arts and Sciences entrance requirements, group requirements, graduation requirements, the Communication Skills Test, etc. These sessions proved very useful to the 25 or so students who attended each one. We plan to continue these presentations at pre-registration time. In addition to the group advisement sessions, the staff made posters and signs and designed two ads for the LOBO to publicize the sessions.

Polly Keightley served as Arts and Sciences representative at a recruitment brunch at the Four Seasons sponsored by the UNM Athletic Department. An A&S representative is usually asked to attend when prospective students express an interest in A&S subjects or request pre-professional information.

Polly Keightley attended the Law School Admission Council Pre-Law Adviser Workshop at Regis College in Denver on November 8, 1981, and a Law School Recruitment Fair on November 9 at the University of Denver. At the Workshop, which was most helpful for our advisement staff, the following topics were presented: (1) Current Issues in Law School Admissions, (2) Special Minority Student Programs and Opportunities, (3) Law School Admissions Council Services for Pre-Law Advisers, (4) Job Prospects for New Lawyers, (5) The Role of the Pre-Law Adviser, (6) The Admissions Process, (7) The Selection Process. The Law Schools Recruitment Fair was held by law schools from all over the country to recruit students from the Denver area. Polly had an opportunity to talk with these recruiters over lunch but most were local alumni and not well-informed about the admissions and selection process. This very valuable workshop was attended on a "shoe string" basis. Kellen Livermore, of Career Planning and Placement, and Polly drove to Denver in a university vehicle, travel expenses

shared by A&S and CPP. While in Denver they stayed at the home of Kellen's brother and took breakfast and dinner there. A&S paid for Polly's lunches. I mention this only to point out that some sort of additional funding for travel to valuable meetings like this ought to be added to the A&S Advisement Center. There are also both national and regional meetings of the National Association for Advisers in the Health Sciences Professions which could be valuable for us to attend if travel funds were available. Since the entire A&S travel budget is already ludicrously low, we have been unwilling to use any part of it for the Advisement Center.

Senior Day was coordinated this year by Sharon Donahue, at the request of Charlotte Cooper, Associate Director of the Office of School Relations. Also participating was Don Weeke of the A&S office staff. Involved was coordination of all advisement centers, departments, set-ups required, special requirements for displays and presentations, etc.

Sharon and Polly attended the New Mexico ACT Council Conference on "Attracting and Retaining Adult Learners--Who They Are, What They Need, What Works." The title of the conference explains what took place. Especially valuable to the Advisement Center was the printed matter which led us to order several ACT publications on academic advisement generally.

Advisement handouts available in the foyer continue to be brought up to date and additional ones are compiled as need arises. Our "Update of Student Services" was made current--an annual project, as was the Departmental Advisement Information Booklet. Most of you have received copies of both.

Sharon Donahue has been serving on the Adult Reentry Committee, formed by Vice President Johnson and chaired by Pat Luna of School

Relations, as the representative of campus-wide advisement. Reports of this committee have been made to those concerned and need not be repeated here. Specific proposals were made to the Office of the Provost in February. The Committee plans to continue in existence and to follow up on its efforts.

With the installation of computer terminals in the Advisement Center as well as the Arts and Sciences main office, personnel have been active in learning computer usage and capabilities and developing the skills to use the computer effectively for better advisement.

In April Diane participated in "Sneak Preview Day," a program sponsored by the Office of School Relations. She served as facilitator for discussion of the impressions about UNM of a group of high school students who attended both some regular UNM classes as well as some "simulated" classes.

The staff in March attended the annual advisement centers' general meeting, where Polly presented the Arts and Sciences information, alerting other centers of changes and modifications of A&S policies, requirements and procedures.

The University of Missouri Dental School advisors visited us in May to update our information on their entrance requirements and admission policies. Since the University of Missouri Dental School is very interested and active in recruiting UNM pre-dental students, this personal contact should be valuable for our students seeking admission to dental school.

As usual we participated in Paul Woods' Orientation Program. His staff was briefed earlier on A&S general information and requirements.

For the first time this year there was an "Adviser for a Day" program for the UNM branches, initiated and coordinated by Susan Lynch, Branch Coordinator in the Office of the Associate Provost for Community Education. In March Diane went to the Gallup Branch with Dr. Lynch, E. Bruce Potter of University College, and an adviser from the College of Education. The Gallup faculty were briefed on A&S policies, procedures, and requirements and were urged to maintain close liaison with the A&S staff for aid and information. Diane also met with Gallup Branch students to provide advisement in Arts and Sciences areas as well as in Nursing, Engineering, Business and Associate Degree programs. This visit served an important function since the Gallup Branch is isolated from main campus and requires closer liaison with our office than has heretofore been the case. Since many Gallup students do eventually transfer to main campus, they need to have access to accurate and up-to-date information regarding acceptable courses and degree requirements. In April Diane visited the Valencia Branch in Belen, accomplishing much the same as in Gallup. The "Adviser for a Day" program in Los Alamos was attended by Polly along with an advisor from the College of Engineering. In all these branch campus visits, we were able to publicize A&S degree programs and possibilities to many prospective main campus students.

Diane has now developed a new advisement handout describing the prerequisite and recommended course work for admission to schools of chiropractic. We had received numerous requests from students for this information, which broadens the pre-health sciences library of advisement brochures.

We also attended a meeting this Spring of the UNM/Albuquerque Schools Liaison Committee to inform the high school members of A&S advisement

procedures. High school counselors were urged to refer prospective UNM students to the appropriate advisement center even before entering UNM in order to facilitate adjustment of entering Freshmen to UNM and to establish personal contacts with advisors who may be able to help in the transition process.

The Arts and Sciences Advisement Center again participated in the annual Career Fair on March 24--a program originated several years ago by the center due to the initiative of Kelli Livermore who continues to coordinate the Career Fair from her position in Career Planning and Placement. Polly and Diane represented A&S in welcoming guests, participants and guests, in handing out career information and student survey forms, in directing students to the various participating companies and organizations and generally facilitating smooth operations.

On April 17 the UNM Medical School first-year students sponsored the annual "Pre-Med Day" for prospective students and advisers from throughout New Mexico. Diane and Polly attended and met for luncheon and an informal information exchange with Diane Klepper, Assistant Dean for Student Affairs and Admission. As a result, we have expanded our pre-medical handout to include a section on medical school admissions policies and procedures.

Another interesting medical-related program took place on May 25--a simulation of "Minority Admissions to Medical School." Small groups of advisers and the UNM medical student members of the Admissions Committee reviewed typical minorities applications and received information on which students had been accepted and which rejected as well as the criteria used for admission. Diane and Polly represented the Arts and Sciences Advisement Center as they also serve on the interviewing component of the Health

Sciences Advisory Committee.

Jack Crossen and Polly Keightley attended a workshop on the Myers-Briggs Personality Type Indicator during the Spring in order to become acquainted with research on pre-medical career choices.

Assistance in Other A&S Functions

Advisement Center personnel are also beginning to learn computer skills now that the Center, as well as the A&S office, has a terminal and computer capability. During the slack periods of advisement the staff aids the A&S office in updating and entering in student folders grades, cumulative GPA, hours toward degree, etc. About 50% of the provisional and probational admissions from University College are handled by advisement center personnel, as well as a large number of students being suspended.

TABLE 1

CHAIRPERSONS AND PROGRAM DIRECTORS, 1981-82

Departments

AMERICAN STUDIES

Samuel B. Girgus

ANTHROPOLOGY

Jeremy A. Sabloff

BIOLOGY

James S. Findley (Sabb. Sem. I)

James R. Gosz, Acting Sem. I

CHEMISTRY

Riley Schaeffer

COMMUNICATIVE DISORDERS

Lloyd E. Lamb (Sabb. Year)

Richard B. Hood, Acting

ECONOMICS

Alfred L. Parker

ENGLISH

Hamlin Hill

GEOGRAPHY

Richard E. Murphy (Sabb. Year)

Rodman E. Snead, Acting

GEOLOGY

Rodney C. Ewing (Sabb. Sem. II)

Wolfgang E. Elston, Acting Sem. II

HISTORY

Janet Roebuck

JOURNALISM

Robert H. Lawrence

LINGUISTICS

Garland D. Bills

MATHEMATICS AND STATISTICS

W. Tom Kyner

MODERN AND CLASSICAL LANGUAGES

Sabine R. Ulibarri

PHILOSOPHY

Howard J. Tuttle (Sabb. Sem.

I, resigned Sem. II)

George F. Schueler, Acting

PHYSICS AND ASTRONOMY

R. Marcus Price

POLITICAL SCIENCE

Robert J. Sickels (resigned

Sem. II)

James L. Ray

PSYCHOLOGY

Henry C. Ellis

SOCIOLOGY

Pedro R. David (IWOP Sem. I)

Gilbert W. Merckx, Acting

SPEECH COMMUNICATION

Kenneth D. Frandsen

Programs

ASIAN STUDIES

George F. Schueler

COMPARATIVE LITERATURE

Joseph Zavadil

FRESHMEN ENGLISH

Michael J. Hogan

IBERO-AMERICAN STUDIES

Marshall R. Nason

INSTITUTE OF METEORITICS

Klaus Keil

INSTITUTE OF MODERN OPTICS

Marian O. Scully

LATIN AMERICAN STUDIES

Dick C. Gerdes

MAXWELL MUSEUM

J.J. Brody

OFFICE OF CONTRACT ARCHEOLOGY

Joseph Winter

PALEOECOLOGY

Roger Y. Anderson

RUSSIAN STUDIES

Richard G. Robbins

TABLE 2

STANDING AND SPECIAL COMMITTEES,
COLLEGE OF ARTS AND SCIENCES, 1981-82

A&S Tenure Committee

Lewis R. Binford, Anthropology, Chairman
Howard C. Bryant, Physics
Barry J. Gaines, English
Samuel Roll, Psychology
William H. Dabney, History
Roger Y. Anderson, Geology
Iven Bennett, Geography

A&S Promotion Committees

Humanities:

William M. Dabney, History, Chairman
Anthony G. Hillerman, Journalism
Paul F. Schmidt, Philosophy
Claude-Marie Senninger, Modern and Classical Languages
Hugh H. Witemeyer, English

Natural Sciences and Mathematics:

Roger Y. Anderson, Geology, Chairman
Fritz S. Allen, Chemistry
Colston Chandler, Physics
Donald W. Duszynski, Biology
Douglas P. Ferraro, Psychology
Art Steger, Mathematics and Statistics

Social Sciences:

Iven Bennett, Geography, Chairman
Sanford Cohen, Economics
Patricia Draper, Anthropology
George A. Huaco, Sociology
Lawrence B. Rosenfeld, Speech Communication

A&S Human Subjects Committee

Henry C. Harpending, Anthropology, Chairman
Jay B. Sorenson, Political Science
Harold D. Delaney, Psychology
Paul D. Steele, Sociology
Allen K. Lichtenstein, Speech Communication
Priscilla N. Thompson, Housewife

TABLE 2 (contd.)

A&S Academic Policy and Curriculum Committee

Clifford Crawford, Biology, Chairman
 Lambert H. Koopmans, Mathematics and Statistics
 William Coleman, Chemistry
 Mary Bess Whidden, English
 Ferenc Szasz, History
 Elinore M. Barrett, Geography
 Peter Lupsha, Political Science

A&S Committee on Southwestern Studies

Donald C. Cutter, History
 L. Ray Burrola, Chicano Studies
 Charles Biebel, American Studies
 Samuel B. Girgus, American Studies
 Ted Jojola, Native American Studies
 Iven V. Bennett, Geography
 Susan Alvarado, Anthropology

A&S Teaching Resources Committee

Jean M. Civikly, Speech Communication, Chairman
 Charles Coates, Journalism
 William M. Dabney, History
 David Kidd, Biology
 Barry Kues, Geology
 George F. Schueler, Philosophy
 Michael Zeilik, Physics

A&S Student Advisory Committee

Patricia Isaac, American Studies
 Thomas Logan, Anthropology
 Karen Mitchell, Communicative Disorders
 Gary Bednorz, Economics
 Babbi Bogan, English
 Lorenzo Marrujo, English
 Douglas D. Rizor, Geography
 Roderick Juarez, History
 Bob Matteucci, History
 Judy Giannettino, Journalism
 Laura Rhodes, Latin American Studies
 Timothy B. Kraus, Mathematics and Statistics
 Dan Contreras, Modern and Classical Languages
 Anthony Keller, Philosophy
 Richard Elston, Physics
 Greg Sivinski, Political Science
 Richard Zimmer, Speech Communication

TABLE 2 (contd.)

A&S Graduate Committee

Richard C. Metzler, Chairman (Associate Dean, Arts and Sciences)
 Samuel B. Girgus, American Studies
 Larry Gorbet, Anthropology
 John Wiens, Biology
 Cary Morrow, Chemistry
 Linda Riensche, Communicative Disorders
 Sanford Cohen, Economics
 James Barbour, English
 Bradley T. Cullen, Geography
 Barry Kues, Geology
 Jake Spidle, History
 John Oller, Linguistics
 Richard C. Allen, Mathematics and Statistics
 Jack Tomlins, Modern and Classical Languages
 Russell Goodman, Philosophy
 James D. Finley, Physics
 Peter Lupsha, Political Science
 John Rhodes, Psychology
 Kenneth D. Frandsen, Speech Communication
 Dennis Heineman, Graduate Student Association
 Nancy L. Mandell, Graduate Student Association
 Gary Dodson, Graduate Student Association

A&S Latin American Studies Advisory Committee

Dick C. Gerdes, Modern and Classical Languages, Chairman
 Peter Bakewell, History
 Peter Gregory, Economics
 Robert Lenberg, Anderson School of Management
 Marshall Nason, Modern and Classical Languages
 Karen L. Remmer, Political Science
 Jeremy Sabloff, Anthropology
 Nelson Valdes, Sociology
 Martin Needler, Political Science
 Karl Schwerin, Anthropology

A&S American Studies Committee

Samuel B. Girgus, American Studies, Chairman
 Ernest Baughman, English
 Charles Biebel, American Studies
 George Arms (Emeritus), English
 Sanford Cohen, Economics
 David King Dunaway, English
 Robert Fleming, English
 Douglas George, Art
 Hamlin Hill, English
 Ira S. Jaffe, Theatre Arts
 Peter Lupsha, Political Science

TABLE 2 (contd.)

A&S American Studies Committee (contd.)

Vera Norwood, Office of the Provost
Howard Rabinowitz, History
Harold Rhodes, Political Science
Daniel Slate, Anderson School of Management
M. Jane Slaughter, History
Anne Taylor, Art Education
M. Martha Weigle, Anthropology and English
Peter L. White, English

TABLE 3

FACULTY PROMOTIONS, RETIREMENTS, SEPARATIONS, AND APPOINTMENTS,
TENURE AND THIRD-YEAR TERM-DECISIONS, 1981-82

PromotionsTo Full Professor:

Morris Eaves	English
Steven A. Pruess	Mathematics and Statistics
F. Lee Brown	Economics
Linda Cordell	Anthropology
Gilbert K. Merckx	Sociology

To Associate Professor:

Richard Coughlin	Sociology
Philip May	Sociology
Janice Schuetz	Speech Communication
Douglas E. Caldwell	Biology
David A. Clark (Research)	Physics and Astronomy
Gordon Hodge	Psychology
Fritz W. Taylor	Biology
Eric C. Toolson	Biology
Stephen G. Wells	Geology
Michael Hogan	English
Alan Hudson-Edwards	Linguistics

Separations

Susan Kent	Anthropology
James Wessman	Anthropology
Douglas E. Caldwell	Biology
William F. Coleman	Chemistry
Sumner L. Blanchard	Communicative Disorders
F. Donald Bloss	Geology
Raymond V. Ingersoll	Geology
Alfred S. Carasso	Mathematics and Statistics
Enrique E. Lamadrid	Modern and Classical Languages
Joan Dargan	Modern and Classical Languages
Donald R. Riggs	Philosophy
William C. Sweatt	Physics and Astronomy
Timothy J. DeYoung	Political Science
Martha H. Good	Political Science
Jeanne L. Wilson	Political Science
Estevan T. Flores	Sociology
Lawrence Rosenfeld	Speech Communication
Mark H. Brecht	Psychology

Retirements

Donald C. Cutter	History
Marshall Nason	Modern and Classical Languages

TABLE 3 (contd.)

New AppointmentsAmerican Studies:

Jane N. Caputi	Visiting Assistant Professor
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Chemistry:

Carlos J. Bustamante	Assistant Professor
Mark R. Ondrias	Assistant Professor

Communicative Disorders:

Edward A. Shirkey	Assistant Professor
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Economics:

Thomas H. Goodwin	Assistant Professor
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Geology:

William T. Holser	Caswell-Silver Distinguished Professor
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Mathematics and Statistics:

Mutiara Buys	Assistant Professor
Philip P. Herlan	Visiting Lecturer II
Curtiss A. Barefoot	Visiting Assistant Professor
Peter Gelkey	Visiting Associate Professor
John Charles Neu	Assistant Professor (1983-84)

Modern and Classical Languages:

Edward Benson	Assistant Professor
Shaw Gynan	Visiting Assistant Professor

Philosophy:

Hanna Buczynska-Garewicz	Visiting Professor
William T. Boos	Assistant Professor

Political Science:

Miriam Golden	Visiting Assistant Professor
Martin Sanchez-Jankowski	Assistant Professor
Thomas M. Konda	Visiting Instructor

Psychology:

Janet E. Belew	Assistant Professor
Rafael Diaz	Assistant Professor

TABLE 3 (contd.)

New Appointments (contd.)Sociology:

H. Laurence Ross	Professor, Chairman (1983-84)
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Speech Communication:

William G. Woodall	Assistant Professor
Thomas E. Jewell	Lecturer II

Third Year Term Decisions

Summer Lee Blanchard	Communicative Disorders
William R. Roberts	History
Fred V. Bales	Journalism
Evangelos A. Coutsias	Mathematics and Statistics
Diana M. Robin	Modern and Classical Languages
Timothy J. DeYoung	Political Science
Gary H. Ritchey	Psychology
Gary D. LaFree	Sociology
Paul D. Steele	Sociology
Barry K. Spiker	Speech Communication

Tenure Decision Date, June 30, 1982

E. Scott Rushforth	Anthropology
Oswald Baca	Biology
Frederick W. Taylor	Biology
Eric C. Toolson	Biology
Cheryl H. Fresch	English
Michael J. Hogan	English
Peter C. Page	English
Raymond V. Ingersoll	Geology
Stephen G. Wells	Geology
David R. Maciel	History
Ronald M. Schrader	Mathematics and Statistics
Erlinda Gonzales-Berry	Modern and Classical Languages
Jose R. Reyna	Modern and Classical Languages
Michael Zeilik	Physics and Astronomy
William R. Miller	Psychology
Gordon K. Hodge	Psychology
Richard J. Jensen	Speech Communication
Janice E. Schuetz	Speech Communication

TABLE 4
FTE BUDGETED FACULTY, 1981-82

<u>Department</u>	<u>Returning Faculty</u>	<u>New Faculty</u>	<u>Part-Time Instruction</u>	<u>GAs/TAs</u>
American Studies	3.71	--	--	0.50
Anthropology	19.53	2.00	1.50	3.50
Biology	29.67	--	0.77	19.50
Chemistry	17.40	4.00	--	15.00
Communicative Disorders	7.41	--	0.39	1.00
Economics	15.97	3.00	0.42	3.00
English	35.37	4.00	5.85	23.00
Geography	5.67	1.50	0.23	1.50
Geology	14.00	2.00	0.36	6.50
History	26.50	--	--	8.00
Journalism	4.16	3.00	0.49	--
Linguistics	2.17	1.00	--	0.50
Mathematics & Statistics	36.59	2.00	1.53	11.00
Modern & Classical Languages	31.32	2.50	1.00	16.50
Philosophy	10.00	1.00	--	2.50
Physics & Astronomy	18.77	1.00	1.08	9.50
Political Science	13.04	3.00	--	2.00
Psychology	23.10	--	--	6.50
Sociology	13.37	3.00	--	2.00
Speech Communication	9.00	1.00	--	1.75
A&S Contingency	--	7.00	1.50	1.00
TOTAL	336.75	41.00	15.12	134.75

TABLE 5

NUMBER OF STUDENTS ENROLLED
COLLEGE OF ARTS AND SCIENCES

<u>Year</u>	<u>Sem. I</u>	<u>% Inc. Over Prev. Year</u>	<u>Sem. II</u>	<u>% Inc. Over Prev. Year</u>
1971-72	2,563	0.9	2,490	- 1.1
1972-73	2,644	3.2	2,837	13.9
1973-74	2,857	8.0	2,797	- 1.4
1974-75	2,724	- 4.7	2,746	- 1.8
1975-76	2,684	- 1.5	2,756	0.4
1976-77	2,663	- 0.8	2,737	- 0.7
1977-78	2,582	- 3.0	2,602	- 4.9
1978-79	2,397	- 7.2	2,322	-10.8
1979-80	2,267	- 5.4	2,205	- 5.0
1980-81	2,099	- 7.4	2,350	6.6
1981-82	2,492	18.7	2,580	9.8

TABLE 6

STUDENT CREDIT HOURS TAUGHT, UNM AND A&S

<u>Year</u>	<u>Student Credit Hours</u>		<u>A&S Percent of Total</u>
	<u>UNM</u>	<u>A&S</u>	
1971-72	444,361	279,705	62.8
1972-73	425,302	278,577	65.5
1973-74	420,311	256,979	61.1
1974-75	517,455	300,821	58.0
1975-76	461,641	285,551	61.9
1976-77	487,208	279,810	57.4
1977-78	476,229	267,786	56.2
1978-79	473,266	272,829	57.6
1979-80	495,039	279,666	56.5
1980-81	508,267	282,239	55.5
1981-82	516,956	280,455	54.3
Change			
1981-82			
Over	8,689	- 1,784	
1980-81	1.7%	- 0.6%	
Increase			
1981-82			
Over	72,595	750	
1971-72	16.3%	0.3%	

TABLE 7

STUDENT CREDIT HOURS BY DEPARTMENT

Department	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	% Dif- ference 1981-82
American Studies	5,970	3,002	3,158	2,302	2,077	1,923	2,063	2,196	6.45
Anthropology	17,156	15,489	12,225	10,861	9,758	9,611	8,674	8,304	- 4.27
Biology	25,872	24,565	23,278	21,863	20,458	20,690	20,783	19,841	- 4.53
Chemistry	19,810	18,249	19,397	18,143	18,203	18,414	17,988	17,781	- 1.15
Comm. Disorders	2,531	2,758	2,928	2,601	3,096	2,949	2,876	3,009	4.62
Economics	12,908	13,045	12,168	13,899	15,369	17,346	18,136	16,784	- 7.45
English	32,564	30,478	31,370	29,128	30,109	32,813	33,117	34,175	3.19
Geography	5,838	6,008	5,545	5,410	6,001	6,296	5,664	5,390	- 4.84
Geology	10,028	8,728	8,797	8,154	9,023	10,211	10,212	9,555	- 6.43
History	22,676	21,740	19,745	19,960	21,192	19,598	17,924	17,344	- 3.24
Journalism	3,603	3,584	3,425	3,016	3,045	2,846	2,840	3,108	9.44
Linguistics	1,921	1,986	1,615	1,304	1,319	1,042	3,176*	1,269	-60.04*
Math & Statistics	32,154	32,043	35,167	35,346	38,414	43,405	46,252	50,344	8.85
Mod. & Clas. Lang.	22,917	23,985	21,491	19,648	19,178	18,901	19,063	17,593	- 7.71
Philosophy	11,020	9,631	7,926	5,922	4,825	5,933	5,648	5,685	0.66
Physics & Astr.	13,334	12,847	11,842	11,731	12,278	12,998	14,009	14,812	5.73
Political Science	11,659	10,876	10,391	10,621	9,675	9,606	9,450	9,582	1.40
Psychology	26,804	24,832	24,422	24,273	25,358	22,080	20,607	22,447	8.93
Sociology	12,170	11,182	13,778	15,155	14,327	14,483	15,052	14,112	- 6.25
Speech Comm.	9,886	10,523	11,142	8,328	9,124	8,521	8,705	8,222	- 5.55
TOTAL	300,821	285,531	279,810	267,665	272,829	279,666	282,239	281,553	- 0.24

*Unusual figure due to 1980 Linguistics Institute.

TABLE 8
DEGREES AWARDED
COLLEGE OF ARTS AND SCIENCES

Year	Bachelor's Degrees		Advanced Degrees				Total	
	No. of Degrees	% Inc. Over Previous Yr.	Master's (a)		Doctor's		No.	% Inc.
			No.	% Inc.	No.	% Inc.	No.	% Inc.
1972	435	-26.5	130	-24.0	47	-35.6	177	-27.5
1973	622	43.0	189	45.4	84	80.9	273	54.8
1974	734	18.0	154	-18.5	88	4.7	242	-11.3
1975	816	10.0	128	-16.8	64	-27.2	192	-20.6
1976	707	-13.3	128	0.0	74	15.6	202	4.2
1977	611	-13.6	159	24.2	69	- 6.8	228	12.9
1978	662	8.3	167	5.0	68	- 1.4	235	3.1
1979	577	-12.8	143	-14.4	55	-19.1	198	-15.7
1980	627	8.7	123	-14.0	58	5.5	181	- 8.6
1981	500	-20.3	121	- 1.6	73	25.9	194	- 7.1
1982	453	- 9.4	165	36.4	51	30.1	216	11.3
10-Year Change	18	4.1	35	26.9	4	8.5	39	22.0

(a) These figures do not include Master of Arts in Teaching and Master of Education in Science degrees.

TABLE 9
DEGREES AWARDED, A&S AND UNM, 1972 AND 1982

College	Bachelor's Degrees			Advanced Degrees		
	1972	1982	% Inc.	1972	1982	% Inc.
Arts and Sciences	511	453	-11.4	266	216	-18.8
B.U.S.	428	265	-38.1	--	--	--
Other Colleges*	991	1,089	9.9	578	700	21.1
UNM TOTAL	1,930	1,807	- 6.4	844	916	8.5

*Excludes Law and Medicine.

TABLE 10
DEGREES AWARDED, BY DEPARTMENT¹

Department	Bachelor's				Master's				Doctoral			
	1979	1980	1981	1982	1979	1980	1981	1982	1979	1980	1981	1982
American St.	1	0	0	4	--	--	1	3	4	5	8	4
Anthropology	36	33	27	19	16	9	12	10	4	6	4	5
Art ²	5	8	6	4	--	--	--	31	--	--	--	--
Biology	109	74	77	55	15	12	7	5	4	10	6	6
Chemistry	18	19	11	15	6	9	11	6	10	--	9	6
Comm. Disorders	12	12	13	13	20	16	14	19	--	--	--	--
Comp. Lit.	1	1	1	1	2	0	3	--	--	--	--	--
Creative Wrtg.	--	--	--	7	--	--	--	--	--	--	--	--
Economics	32	40	45	42	4	3	6	5	2	3	3	1
English	46	44	28	27	7	5	3	7	3	5	2	7
English-Phil.	3	4	2	2	--	--	--	--	--	--	--	--
Geography	3	6	6	9	2	0	2	2	--	--	--	--
Geology	21	23	17	22	12	10	14	10	0	9	3	--
History	44	51	31	24	5	11	3	3	9	4	4	3
Home Economics ²	4	4	0	1	--	--	--	5	--	--	--	--
Ibero-Amer. St. ³	--	--	--	0	--	--	--	--	2	1	0	--
Journalism	23	30	22	21	--	--	--	--	--	--	--	--
Linguistics	1	0	1	1	2	1	5	1	--	--	--	--
Lat. Amer. St.	5	9	6	5	3	6	5	5	--	--	--	--
Math & Stat.	15	20	14	15	4	5	7	10	1	3	7	2
M&CL	19	33	30	16	10	4	2	12	6	3	10	3
Philosophy	3	3	5	1	3	2	0	2	1	1	0	1
Physics & Astr.	7	9	7	8	6	5	6	4	3	0	5	1
Pol. Science	56	65	34	43	1	4	1	4	0	2	0	--
Psychology	75	91	72	60	10	8	5	5	6	6	12	11
Religious St.	0	0	1	0	--	--	--	--	--	--	--	--
Russian St.	0	1	1	1	--	--	--	--	--	--	--	--
Sociology	22	21	21	23	2	0	0	2	0	0	0	1
Speech Comm.	16	24	22	19	13	11	14	14	--	--	--	--
TOTAL	577	627	500	458 ⁴	147	123	121	165	55	58	73	51

¹Includes summer, fall and spring graduates.

²Not departments of the College of Arts and Sciences, but major or minor is allowed.

³Interdisciplinary program at the doctoral level.

⁴Degrees granted with double majors are counted once in each major department, so this total will not agree with Table 9.

TABLE 11

ACADEMIC PROBATIONS, SUSPENSIONS, AND RELEASES
COLLEGE OF ARTS AND SCIENCES

	<u>1977-1978</u>		<u>1978-1979</u>		<u>1979-1980</u>		<u>1980-1981</u>		<u>1981-1982</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Semester I:										
On Probation	262	10.1	258	10.8	216	9.5	186	8.9	249	10.0*
Suspended	59	2.3	46	1.9	106	4.7	77	3.7	126	5.1
Released	52	2.0	48	2.0	40	1.8	30	1.4	47	1.9
Semester II:										
On Probation	209	8.0	207	8.9	335	15.9	191	8.1	244	9.5*
Suspended	64	2.5	51	2.2	107	4.9	112	4.8	91	3.5
Released	58	2.2	57	2.5	61	2.6	64	2.7	85	3.3

Number of Students Enrolled in Arts and Sciences:

Semester I, 1981-82	2,492
Semester II, 1981-82	2,580

*These figures do not include students admitted on probation.

TABLE 12

DEAN'S LIST, COLLEGE OF ARTS AND SCIENCES
NUMBER OF STUDENTS WITH GPA OF 3.00 AND ABOVE
FOR WORK OF 15 HOURS OR MORE TAKEN IN THE SEMESTER WITH GRADE

Grade Point Average	<u>1978-79</u>				<u>1979-80</u>			
	<u>Sem. I</u>		<u>Sem. II</u>		<u>Sem. I</u>		<u>Sem. II</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
4.00	47	2.0	41	1.8	43	1.9	38	1.7
3.50-3.99	118	4.9	131	5.6	109	4.8	118	5.4
3.00-3.49	160	6.7	194	8.4	172	7.6	147	6.7
TOTAL	325	13.6	366	15.8	324	14.3	303	13.7
	<u>1980-81</u>				<u>1981-82</u>			
4.00	48	2.3	44	1.9	39	1.6	44	1.7
3.50-3.99	103	4.9	130	5.5	132	5.3	147	5.7
3.00-3.49	152	7.2	192	8.2	182	7.3	194	7.5
TOTAL	303	14.4	366	15.6	353	14.2	385	14.9

NOTE: % represents the percentage of the total Arts and Sciences enrollment for the semester indicated.

TABLE 13

DEGREES GRANTED WITH HONORS*

Honors in General Studies	
Summa Cum Laude	1
Magna Cum Laude	3
Cum Laude	5
Departmental Honors	
Biology	1
Chemistry	5
Economics	2
Modern and Classical Languages	1
Physics and Astronomy	1
Political Science	4
Psychology	15
Initiated into Phi Beta Kappa	23
Initiated into Phi Kappa Phi	18

*Requirements completed Semester II, 1980-81; Summer 1981;
Semester I, 1981-82.

TABLE 14

NEW RESEARCH AND TRAINING GRANTS, 1981-82

<u>Department</u>	<u>Dollars</u>	<u>Number of Faculty</u>	<u>Number of Grants</u>
American Studies	2,500	1	1
Anthropology	427,660	7	10
Biology	892,594	16	27
Chemistry	632,485	8	16
Communicative Disorders	32,500	2	2
Economics	128,213	4	7
Geology	582,002*	10	16
History	10,000	1	1
Linguistics	39,765	1	1
Mathematics and Statistics	561,583	9	11
Physics and Astronomy	1,380,574**	17	30
Psychology	122,825	3	3
Sociology	82,303	1	1
Contract Archeology	459,288	2	42
Maxwell Museum	82,000	2	3
TOTAL	5,436,392	84	171

*\$227,945 for Meteoritics included.

**\$735,167 for Modern Optics included.

TABLE 15
 BUDGETED GAS/TAs, RESEARCH AND
 PROJECT ASSISTANTS AND TRAINING GRANTEEES

<u>Department</u>	<u>GAs & TAs</u>	<u>RAs, PAs, & Trainees</u>
American Studies	0.50	--
Anthropology	3.50	1.00
Biology	19.50	4.50
Chemistry	15.00	7.00
Communicative Disorders	1.00	--
Economics	3.00	1.00
English	23.00	--
Geography	1.50	--
Geology	6.50	2.50
History	8.00	1.00
Journalism	--	--
Linguistics	0.50	--
Mathematics	11.00	--
Modern & Classical Languages	16.50	--
Philosophy	2.50	--
Physics & Astronomy	9.50	5.50
Political Science	2.00	0.50
Psychology	6.50	1.50
Sociology	2.00	--
Speech Communication	1.75	1.00
A&S Contingency	1.00	--
TOTAL	134.75	25.50

TABLE 16
 SUMMER SESSION DATA, 1981 AND 1982

Department	Final 1981 Figures		Final 1982 Figures	
	Allocation	%	Allocation	%
American Studies	\$ 5,636	1.16	\$ 5,615	1.07
Anthropology	21,690	4.46	21,328	4.06
Biology	33,746	6.95	32,770	6.24
Chemistry	26,657	5.49	28,325	5.39
Communicative Disorders	4,390	0.90	4,565	0.87
Economics	21,178	4.36	22,077	4.20
English	64,565	13.29	71,109	13.54
Geography	11,166	2.30	9,889	1.88
Geology	8,311	1.71	11,924	2.27
History	27,855	5.73	30,319	5.77
Journalism	7,611	1.57	13,522	2.58
Linguistics	10,356	2.13	8,290	1.58
Mathematics & Statistics	60,216	12.39	63,155	12.03
Modern & Classical Languages	75,315	15.50	82,855	15.78
Philosophy	5,823	1.20	8,556	1.63
Physics & Astronomy	14,257	2.93	20,280	3.86
Political Science	13,724	2.82	15,757	3.00
Psychology	17,901	3.68	22,865	4.35
Sociology	17,117	3.52	15,941	3.04
Speech Communication	14,008	2.88	16,588	3.16
Foreign Programs	14,900	3.07	15,710	2.99
Research Stipends	4,200	0.86	3,600	0.68
Contingency	5,478	1.07	--	--
TOTAL	\$485,830	100.00	\$525,040	100.00

TABLE 17

A&S TRAVEL DISBURSEMENTS

Department	Paper Presentation		Officer Participation		Miscellaneous Attendance	
	No. of	Amount	No. of	Amount	No. of	Amount
	Trips		Trips		Trips	
American St.	1	\$ 277.20	--	--	--	--
Anthropology	9	2,301.10	--	--	--	--
Biology	14	2,875.15	2	\$ 315.60	--	--
Chemistry	6	2,115.48	--	--	1	\$ 176.40
Comm. Disorders	2	650.40	--	--	--	--
Economics	4	789.30	--	--	2	507.60
English	11	3,352.90	--	--	6	1,534.36
Geography	5	954.20	--	--	1	153.00
Geology	1	155.90	--	--	--	--
History	6	1,355.60	2	678.00	6	1,539.20
Journalism	--	--	--	--	2	250.80
Linguistics	2	664.40	--	--	--	--
Math & Stat.	4	936.10	--	--	4	1,335.90
M&CL	9	2,665.43	--	--	1	382.40
Philosophy	3	585.40	--	--	1	72.00
Physics & Astr.	8	2,190.20	--	--	2	390.02
Pol. Science	5	1,338.10	1	172.70	5	1,173.30
Psychology	9	2,713.07	3	747.40	1	207.20
Sociology	9	2,294.65	--	--	--	--
Speech Comm.	9	1,946.45	--	--	--	--
TOTAL	117	\$30,161.03	8	\$1,913.70	32	\$7,722.18

THE UNIVERSITY OF NEW MEXICO

DATE: January 7, 1982
TO: Faculty, College of Arts and Sciences
FROM: *F. Garcia*
F. Chris Garcia
SUBJECT: Faculty Opinion Survey

Attached are the results of an opinion survey mailed to all A&S faculty in April 1981. The written questionnaires were to be completed and returned anonymously to the college office. Several reminders elicited responses from about 90% of our faculty (sample N = 352). The survey was designed and administered primarily by our sociology colleague, Art St. George, and myself.

We take this to be a significant reflection of the opinions of our college faculty concerning many items of importance to us. I hope that this attitudinal data will be read and considered carefully by everyone. This should provide not only food for thought but also should be incorporated into our planning and decision making at the individual, departmental and college levels.

As always your comments and suggestions are most welcome.

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A&S FACULTY OPINION SURVEY

During the late spring of 1981, opinion questionnaires were mailed to all faculty in the College of Arts and Sciences. Faculty who did not respond were sent several reminders. By September 352 questionnaires had been completed and returned. The following are partial results of the survey.

I. First, faculty were asked whether they agreed or disagreed with several statements. The statements, and the percentages of faculty choosing each option, are reported here.

1. Basic skills courses should be discontinued even if it means losing several faculty positions: strongly agree (SA), 15.6%; agree with reservations (A), 23.2%; disagree with reservations (D), 34.4%; strongly disagree (SD), 26.8%.

Comment: 61.2% of the A&S faculty are not willing to discontinue university skills courses if this would result in the loss of faculty. (But see item 20, part IV for the "ideal" situation.)

2. Basic skills courses should be continued until there exists alternative organizations for offering remedial programs: SA, 28.1%; A, 41.4%; D, 18.6%; SD, 11.9%.

Comment: 70% of our faculty support the continuation of university skills in our college until alternative programs are available.

3. The dean should consider teaching evaluations of departments when determining their budget: SA, 16.8%; A, 37.8%; D, 23.0%; SD, 22.4%.

Comment: A majority, 54.6%, agree that teaching performance should be included (along with the currently used research and service activities) in determining the allocation of resources to our departments. I share the majority position, although the implementation of this poses some considerable difficulties which have not yet been overcome.

4. Student course evaluations should play a greater role in tenure and promotion decisions: SA, 13.6%; A, 29.5%; D, 33.0%; SD, 23.9%.

Comment: 56.9% feel that student evaluations of teaching should not weigh more heavily in tenure and promotion decisions. In general, teaching performance currently is given less consideration than research production in these decisions by college committees. I feel that teaching and research should be approximately equal in weight and that student evaluations should comprise only a part of any evaluation of teaching. (Please see part II.)

5. Student course evaluations are little more than personality polls and should be discontinued: SA, 13.0%; A, 17.5%; D, 43.9%; SD, 25.6%.
6. Regular attendance should be a requirement for a satisfactory grade in a course: SA, 20.3%; A, 26.3%; D, 35.3%; SD, 18.1%.

Comment: Some ambiguity may be present here. Did a minority (46.6%) agree that regularity of attendance should constitute a part of the grade earned in a class, or did this group feel that unless a student attended class regularly, he or she could not possibly learn the material well enough to earn a satisfactory grade?

7. Performance and effort should be weighted equally in determining students' grades: SA, 5.8%; A, 14.1%; D, 37.3%; SD, 42.8%.
8. A high GPA at UNM means less than an equally high GPA from most other universities in the United States: SA, 13.5%; A, 33.5%; D, 42.6%; SD, 10.5%.

Comment: Almost half (47.0%) think that our grade assignments are inflationary. Why?

9. The dean should consider the grade distribution of the department when determining their budget or their number of faculty: SA, 4.2%; A, 23.9%; D, 35.8%; SD, 36.1%.

Comment: I generally share the views of the 71.9% who disagreed with this item. However, a departmental grade distribution that is far out of line with those of our other departments would receive close scrutiny, as would that department's argument for more staff based on its large enrollments.

10. In course grades, minority students should be held to the same standards as everyone else: SA, 72.3%; A, 26.6%; D, 0.5%; SD, 0.5%.
11. Extraordinary efforts should be made to recruit qualified women and ethnic minority faculty: SA, 21.9%; A, 35.2%; D, 29.6%; SD, 13.3%.

Comment: Although a majority (57.1%) does agree, why does a large minority (42.9%) disagree with the explicit affirmative action policy of this college and university?

12. In this time of economic difficulty, we should not divert scarce resources to special interest or minority programs: SA, 21.0%; A, 34.3%; D, 30.6%; SD, 14.2%.

Comment: The problem is: What constitutes a "special interest" program--one favored by someone else?

13. In a tight money market, existing resources should be allocated to established programs rather than creating new ones: SA, 25.9%; A, 46.7%; D, 23.1%; SD, 4.3%.

Comment: While the burden of establishing the need for a new program is greater in these times of fiscal stringency, we should assess comparatively each program--old or new--in deciding where limited resources should go.

- 14. If funding is increased 10%, most of the increase should go to individual salaries, even if it means little or no funds are available for travel, visiting speakers, supplies or secretarial help: SA, 23.5%; A, 37.8%; D, 29.7%; SD, 9%.

Comment: Salaries win, 61.3% to 38.7%.

- 15. The state legislature does not understand the needs of the University of New Mexico: SA, 54.1%; A, 36.3%; D, 8.2%; SD, 1.4%.

Comment: Amen--but what can we do about this?

- 16. Collective bargaining by faculty members has no place in a college or university: SA, 9.5%; A, 19.0%; D, 39.9%; SD, 31.6%.

Comment: 71.5% accept the principle of collective bargaining in academe.

II. Next, a list of criteria used by deans and department chairmen in decisions on salary increases and tenure were presented. Faculty members were asked to rate the normative importance of each, that is, how important each should be in these decisions. The results were (VI = very important, I = important, LI = of little importance, NI = no importance):

	<u>VI</u>	<u>I</u>	<u>LI</u>	<u>NI</u>
1. Teaching Performance	67.7%	30.4%	1.4%	0.6%
2. Publications	60.0	34.7	4.2	1.1
3. Research Accomplished	59.3	36.3	3.9	0.3
4. Ability to Secure Research Grants	19.3	43.3	26.3	11.2
5. Student Evaluations	14.8	50.0	23.9	11.4
6. Honors Received	14.6	55.2	25.8	4.5
7. Ability to Get Along with Colleagues	8.3	39.7	36.4	15.6
8. Research Grant Proposals Submitted	7.3	31.0	39.7	22.1
9. Committee and Other Administrative Service	5.0	47.6	40.1	7.2

	<u>VI</u>	<u>I</u>	<u>LI</u>	<u>NI</u>
10. Size of Class Enrollments	4.7	24.7	44.0	26.6
11. Other Job Offers Received	4.2	25.5	35.0	35.3
12. Service to Community	3.6	34.4	40.2	21.8

III. Faculty were also asked to rate the importance of several other items. First, they were asked, "Of what importance is a southwestern orientation in each of the following?" (UI = utmost importance, HI = high importance, MI = medium importance, LI = little importance, NI = no importance)

	<u>UI</u>	<u>HI</u>	<u>MI</u>	<u>LI</u>	<u>NI</u>
1. Your decision to come to UNM	16.2%	24.6%	20.2%	12.3%	26.6%
2. Your personal interests	14.6	28.6	29.1	13.2	14.6
3. Research	9.7	15.6	15.3	17.8	41.5
4. Teaching	7.9	13.8	22.8	21.9	33.7
5. Your department's research interest	5.1	20.6	33.0	19.4	22.0

Faculty also were asked to rate the importance of the following when they were considering an offer from another institution: "What importance would the following factors have in your decision whether or not to accept the offer?"

	<u>UI</u>	<u>HI</u>	<u>MI</u>	<u>LI</u>	<u>NI</u>
1. More research release time	46.5%	25.3%	18.7%	6.7%	3.1%
2. Better students	41.0	34.1	16.6	5.8	2.5
3. Higher salary	40.0	35.6	18.9	2.8	2.8
4. Higher professional standards	35.3	35.8	20.6	6.1	2.2
5. Lighter teaching load	35.2	25.8	24.4	10.0	4.7
6. Better research facilities	35.0	33.9	20.6	6.9	2.6
7. Library holdings	24.2	36.7	25.0	10.8	3.3

IV. Goals of the University. Faculty were presented with 21 statements of possible institutional goals. They were asked to respond to each statement in two different ways. First, how important should each goal be at this institution. Then, how important is the goal at this institution at the present time? The results are ranked in descending order of normative importance.

(UI = utmost importance; HI = high importance; MI = medium importance; LI = little importance; NI = no importance)

		<u>UI</u>	<u>HI</u>	<u>MI</u>	<u>LI</u>	<u>NI</u>
1. To teach students methods of scholarly inquiry, scientific research and/or problem definition and solution	Should be:	69.3%	24.3%	4.4%	1.4%	0.6%
	Is:	12.5	30.2	46.8	9.6	0.9
2. To create an institution known widely as an intellectual, exciting and stimulating place	Should be:	69.0	25.5	3.0	1.4	1.1
	Is:	3.2	7.3	40.1	37.1	12.3
3. To protect the faculty's right to academic freedom	Should be:	62.7	27.9	7.5	1.1	0.8
	Is:	14.2	40.4	35.1	8.3	2.1
4. To maintain or work to achieve a reputable standing for the institution within the academic world (or in relation to similar colleges)	Should be:	60.3	29.2	8.3	1.4	0.8
	Is:	2.6	17.3	53.1	23.2	3.8
5. To conduct basic research	Should be:	47.5	39.2	10.6	2.8	0.0
	Is:	6.7	27.9	43.4	19.9	2.1
6. To develop what would generally be regarded as a strong and comprehensive graduate school	Should be:	42.6	39.5	14.0	3.1	0.8
	Is:	5.0	21.0	50.3	21.0	2.7

		<u>UI</u>	<u>HI</u>	<u>MI</u>	<u>LI</u>	<u>NI</u>	
7.	To build a climate on the campus in which continuous educational innovation is accepted as an institutional way of life	Should be:	32.1%	39.4%	20.8%	6.2%	1.4%
		Is:	2.1	12.3	48.9	30.6	6.0
8.	To maintain a climate in which faculty commitment to the goals and well-being of the institution is as strong as commitment to professional careers	Should be:	29.9	41.5	20.9	4.8	2.8
		Is:	3.6	10.8	42.2	32.9	10.5
9.	To help students understand and respect people from diverse backgrounds and cultures	Should be:	26.3	30.2	33.2	18.7	1.7
		Is:	6.6	23.6	46.9	19.1	3.9
10.	To conduct applied research	Should be:	24.8	46.2	22.5	5.6	0.8
		Is:	6.5	31.5	43.3	17.5	1.2
11.	To help students identify their own personal goals and develop means of achieving them	Should be:	21.7	38.1	28.9	8.6	2.8
		Is:	3.2	19.4	50.0	23.2	4.1
12.	To develop educational programs geared to new and emerging career fields	Should be:	16.5	42.9	33.2	6.0	1.4
		Is:	3.9	24.5	50.5	20.5	0.6
13.	To be <u>accountable</u> to funding sources for the effectiveness of college programs	Should be:	13.6	35.1	36.3	11.8	3.2
		Is:	7.3	28.9	46.7	15.2	1.9
14.	To focus resources of the institution on the solution of major social and environmental problems	Should be:	12.9	34.8	34.8	11.5	5.9
		Is:	2.4	15.8	55.8	23.9	2.1
15.	To help students understand and respect people from their own ethnic background and culture	Should be:	12.0	27.7	40.6	12.6	7.1
		Is:	2.7	21.7	53.9	18.7	3.0

		<u>UI</u>	<u>HI</u>	<u>MI</u>	<u>LI</u>	<u>NI</u>
16.	To experiment with new approaches to individualized instruction such as tutorial, flexible scheduling and students planning their own programs	Should be: 11.2%	26.0%	38.8%	19.6%	4.5%
		Is: 1.2	9.3	47.5	36.4	5.7
17.	To be responsive to regional priorities when considering new educational programs for the institution	Should be: 9.5	38.1	39.8	10.0	2.6
		Is: 4.0	37.1	48.6	10.0	0.3
18.	To provide educational experiences relevant to the evolving interests of blacks, chicanos and American Indians	Should be: 8.7	21.5	43.0	20.1	6.7
		Is: 5.1	29.8	47.3	17.0	0.9
19.	To provide skilled manpower for local area business, industry and government	Should be: 7.5	29.2	42.9	15.0	5.3
		Is: 3.8	25.4	52.5	15.5	2.9
20.	To offer developmental programs in basic skills (reading, writing, mathematics)	Should be: 4.7	16.2	23.7	31.8	18.7
		Is: 11.1	38.8	40.8	8.7	0.6
21.	To excel in intercollegiate athletic competition	Should be: 0.8	2.2	23.1	26.9	46.9
		Is: 37.5	36.7	17.2	5.7	2.9

Comment: A majority of A&S faculty think that the first twelve objectives should be of utmost or high importance. Yet a substantial proportion of the faculty are of the opinion that these are not currently very important at UNI. This great discrepancy needs to be examined closely and discussed thoroughly. What actions can be initiated to close this gap between the ideal and perceived reality? Please note that the responsibility for achieving many of these goals lies with us, the faculty and academic staff.

The last two goals were perceived by the majority of faculty respondents as ideally being of little or no importance (basic skills--50.5%, intercollegiate athletics--73.8%) but actually being very important goals (basic skills--49.9%, athletics--74.2%) at UNI.

--F. Chris Garcia
January 1982

The Report of the Department of American Studies
July 1, 1981 -- June 30, 1982
Sam B. Girgus, Chair

This year brought a major restructuring of the American Studies program through expansion and reorganization of the core faculty to include the joint appointments of Marta Weigle of the English and Anthropology Departments, Peter Lupsha of the Political Science Department and Peter White of the English Department. The academic year 1982-1983 will see the implementation of this reorganization. Additional new faculty include Vera Norwood, Assistant Professor and Jane Caputi, Assistant Professor. This change will enable American Studies to better perform its overall mission.

Marta Wiegle is now an Associate Professor in the Departments of Anthropology, English and American Studies. She is considered to be one of the most important scholars in the nation in the fields of Southwest and regional folklore and women in folklore. This year, Professor Weigle's work, Santa Fe and Taos: The Writer's Era was published by Ancient City Press of Santa Fe. Graduate student Kyle Fiore co-authored this work. Also, both Weigle and Fiore edited the Ancient City Press publication New Mexico Artists: A Celebration; 1940, which came out this spring.

Hamlin Hill, Chair of the English Department, is now in his fifth year of a joint appointment with American Studies. This year he received UNM's 27th Annual Research Lecture Award. This is the highest honor bestowed on a

UNM faculty member. On the 12th of April, 1982, in the UNM Kiva, Professor Hill delivered his lecture entitled, "Huckleberry Finn's Humor Today," and this summer Professor Hill is at the University of Wurzburg, West Germany, as a Guest Professor.

Peter White, one of the additions to our core faculty, returned this past fall from Poland where he served as a Fulbright Lecturer in American Literature. He wrote an article entitled "Benjamin Tompson, Colonial Bard" for the book American Writers Before 1800, and articles on Benjamin Tompson and Charles Chauncy for the Dictionary of Literary Biography. He submitted three reviews to the Bibliography of 18th Century Literature and completed editing the manuscript of an 800 page collection of essays entitled Puritan Poets and Poetics for the Pennsylvania State University Press. Professor White attended the Modern Language Association convention in New York in December, 1981, where he served on a panel for "American Literary Manuscript Holdings." He was also appointed President of the UNM Fulbright Alumni Association. Professor White is currently working with Professor Marta Weigle on an anthology of the folklore and folklife of New Mexico. His publications this year include as introduction to Emerson Hough's Heart's Desire, University of Nebraska Press; and an article on Emerson Hough published in the Dictionary of Literary Biography, Volume 9, pages 140-145. He served as Associate Editor of Minority Voices, a publication of

the Pennsylvania State University (Volume 3, Numbers 1 and 2).

Professor Biebel¹⁸ developed a new course this year, "America in the 50's." At Professor Girgus' suggestion he also developed "Schools in Crisis," a course that proved to be popular and successful. Both courses are connected with Dr. Biebel's writing project on American cultural values and American schooling in post World War II America. Two of his papers were published or are in press this year, "American Efforts for Educational Reform in Occupied Germany, 1945-1955 -- A Reassessment," in History of Education Quarterly, 21, (Winter 1982) and "The Role of Non-Public Schools in New Mexico, 1800-1950" in Education in New Mexico, (Winter 1982). In April Professor Biebel delivered a paper on "Youth and the American Dream" at the Western Region Honors Council, held in Albuquerque. He also served as the Arts and Sciences delegate for the NEH/AACJC (American Association of the Community Junior Colleges) workshop held in Los Angeles, California, February 24th through 27th, 1982. The workshop concerned "Strengthening the Humanities in Occupational Curricula."

Professor Biebel remains interested in museum work and material culture. He continues to work with the Museum of Albuquerque and with student interns at the museum. Throughout the spring semester and into the summer he has served as a consultant in the preparation of the new permanent

Historical Exhibit. Professor Biebel also serves on the Citizens Advisory Council for Albuquerque Public Schools and on the Curriculum Advisory Committee for Jefferson Middle School.

Professor Sam B. Girgus continues to serve as chair and graduate advisor for the department. He finished his new book, The New Covenant: Jewish Writers and Thinkers and the Idea of America. The University of New Mexico Press has agreed to printing a paperback edition of The American Self: Myth, Ideology and Popular Culture, edited by Dr. Girgus and released just last year. The book has received reviews in such national journals as American Literary Scholarship and The Journal of American Literature. The book was nationally reviewed as being "indispensable" to students in the field and as showing "that American Studies is alive in the highest sense at the University of New Mexico." He published two articles, on Mark Twain (Journal of American Culture) and John Densley (Dictionary of Literary Biography). Dr. Girgus is presently writing a grant proposal to the Kellogg Foundation for funding a program for minorities within the state in order to develop the leadership potential of indigenous populations (Hispanic and Native American) of the Southwest. Professor Girgus developed a new course on "Sex and Ideology" that deals with a Freudian approach to American culture and character.

Following an extensive national search, Jane E. Caputi,

of Bowling Green, was hired as an Assistant professor.

Professor Caputi visited UNM in February, 1982, and delivered a lecture on "The Telephone", and later held an informal talk on "Sexuality, Women and Clothing". Professor Caputi's list of publications includes articles on women and movies, popular culture and cinema, sexuality and violence in all its forms, such as analysis of popular music, advertising and films and literature. Professor Caputi is finishing her dissertation on Sex and Violence. An article of hers was published this year by the Popular Press in Fetishes and Popular Culture, called "Fetishism and the Sexual Criminal".

Vera Norwood has received an appointment as Assistant Professor of American Studies and will be joining us this fall. She also served as Assistant to the Provost. Professor Norwood's recent publications and presentations include "The Photographer and the Naturalist: Laura Gilpin and Mary Austin in the Southwest", a paper presented at the American Studies Association meeting in Memphis, Tennessee, November, 1981. She was the editor of Women Writers and Artists of the Southwest, the special edition of New America, the journal produced within the American Studies Department. Vera Norwood also participated in a conference held at Yale from May 30th to June 12th on "Reconstructing American Literature." The conference was funded by the FIPSE and the Feminist Press. She is active outside of the university. She is a member of the Advisory Council to the State Commission on Postsecondary Education (1202

Commission) and the Albuquerque Public Schools/University of New Mexico Liason Committee, as well as the Rocky Mountain Plains Adult Education Association and the State Career Education Advisory Council.

Joel M. Jones, Professor of American Studies, has had two important articles published during the last academic year, dealing with Walter Havighurst in the Bibliographical Guide to Midwestern Literature, edited by Gerald Nemanic, University of Iowa Press, and as article on William Dean Howells in Old Northwest. He also has traveled extensively as an advisor and consultant for the National Endowment for the Humanities.

In late January, 1982, Professor Irving Howe of City University of New York visited the university. Professor Howe is the author of numerous books: World of Our Fathers, Trotsky, Decline of the New and William Faulkner: A Critical Study, among others. He delivered two talks here: "Intellectual Dissent in the Present Age" and "The Age of Leviathon: A Study of Modern Totalitarianism." The Graduate School provided the funding for Professor Howe's visit.

A very novel and popular course was offered through the department this past spring, entitled Cowboy Culture. One of New Mexico's most accomplished authors, Stan Steiner, taught the course, with an enrollment of fifty students. Steiner has written such books as: The Ranchers: A Book

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of Generations, The Vanishing White Man, George Washington: The Indian Influence and The New Indians. Steiner's course concerned itself with the origins, history, myths and realities, ideas and influences of the cowboy, as well as looking into the role of machismo in the cowboy and the use of the cowboy image in the media.

This spring the American Studies Department offered a course on the Navajo-Hopi land dispute, a highly emotional controversy which is regarded as one of the most sensitive political and cultural issues in the Southwest today. The course was taught by Jerry Kammer, graduate student and author of The Second Long Walk, a book which deals directly with the land dispute. Kammer has worked on the Navajo and Hopi reservations for more than five years. His book will be published in paperback this year by the University of New Mexico Press. It has been received with great praise by leading journals throughout the nation.

Graduate student Kyle Fiore published two more works this year. Fiore's book with Marta Weigle entitled Santa Fe and Taos: The Writer's Era was published by the Ancient City Press of Santa Fe, and both Fiore and Weigle edited New Mexico Artists: A Celebration; 1940, released by Ancient City Press this spring. Ms. Fiore's article, "Strangers No More: Third World Women and Literacy" came out in College English (February 1982), and a similar article on literacy will be appearing in the UCLA journal, Society and Humanities. Ms. Fiore continues her work on her

dissertation entitled "A Reader's Guide to Oral History" and she received one of the five UNM Graduate Fellowships for the coming year, a special university-wide honor.

The journal produced within the American Studies Department, New America, completed publication of Volume 4, Number 3, entitled "Women Artists and Writers of the Southwest." The project was funded by the National Endowment for the Humanities. Julien Ryner, Managing Editor Marta Field, Professor Biebel, Professor Vera Norwood and Business Manager Rita Gonzalez-Mahoney oversaw the progress of the journal. The Graduate Student Association provided funding for the work-study position carried out by Elizabeth Carr (\$1,270) and committed themselves to financially supporting the journal in the coming year. The New Mexico Arts Division provided assistance (\$2,500) for the issue which is in progress: "The Child in Contemporary America." Presently an application for funding is pending with the Coordinating Council of Literary Magazines.

Journal and newspaper reviews are currently being solicited by the staff. Review sources ranged from national reviews such as the New York Times, "Daily Book Page," to our own local reviewers such as Dwight Meyer's book, Book Talk. Fifty copies of the issue were donated to Zimmerman Library providing them with exchange copies useful in bolstering the Selectors' exchange capacity in acquiring sample copies of journals.

Contributions from within the American Studies Depart-

ment included: Assistant Professor Vera Norwood (Eidtor's Preface), Associate Professor Marta Weigle ("From Alice Corbin's Lines Mumbled in Sleep to Eufemia's Sopapillas," written with Mary Powell) Graduate Students, Susan Kilgore (Photography), and Shelly Armitage ("Counting Cattle With The Fathers") and the journal's Business Manager, Rita Gonzalez-Mahoney (Interviews: Linda Martinez, Enriquetta Vasquez and Maria Varela).

Graduate Students William Tydeman and Shelly Armitage (with Thomas Barrow) published Reading Into Photography, Selected Essays, 1959-1980. This is a major new work of essays and criticism dealing with the field of photography.

The following students successfully completed their Dissertations: Henrietta Whiteman, Cheyenne-Arapaho Education 1871-1982 (Richard Ellis, Chair); Pat Williams, The American Myth of the Self-Made Individual as it Applies to Representative Lives as Well as to Literary Figures from Popular and Elite Literature from 1820 to 1920, (Sam B. Girgus, Chair); Candayce Klaschus, A Study of the Work of Louis L'Amour, (Richard Etulain, Chair); David Kammer, Take Me Out to the Ball Game: American Cultural Values as Reflected in the Architectural Evolution and Criticism of the Modern Baseball Stadium, (Sam B. Girgus, Chair); and Rina Swentzell, A Comparison of Basic Incompatibilities Between European-American Educational Philosophies and Traditional Pueblo World View and Value System, (Anne Taylor, Chair).

The Report of the Department of Anthropology

July 1, 1981 - June 30, 1982

Jeremy A. Sabloff, Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year, 1981-1982

1981-82 was a banner year for the Department of Anthropology. Although recognizing that "Anthropology" begins with an "A," the Department still appreciated being at the head of President Davis' list of "centers of excellence" at UNM. As can be seen in the attachments, the faculty as a whole continued its high rate of publications in a variety of forms including books and articles in major academic journals. Research supported by outside funding also grew significantly as indicated in Part E. A number of scholars visited the Department as shown in the list of lectures (Table 2) including two very distinguished Harvey Lecturers: Prof. Mary Douglas of Northwestern and Colin Renfrew of Cambridge University.

Dr. Linda S. Cordell was deservedly promoted to full professor, a decision supported unanimously by the Department's senior faculty. Unhappily, Dr. Scott Rushforth was denied tenure. He will remain at UNM with terminal appointment in 1982-83.

Another significant event occurred in the winter of 1982 as the long-awaited remodelling of the Anthropology Annex began. The new facilities, which are due to be completed by the end of August, will

provide long-needed office and laboratory space for the Department's archaeologists and for the Office of Contract Archaeology as well as needed facilities for the Summer Field School in archaeology. The first laboratory class (121-L) in archaeology will be offered in the Spring semester 1983. It is hoped that next year's budget will enable the Department to hire a secretary for the Annex.

The two remaining space needs for the Department are 1) adequate laboratory space for Dr. Stanley Rhine and 2) additional storage space for the Maxwell Museum. In regard to the former, long-term space for Dr. Rhine has been assured by the Office of the Medical Investigator, but for the short term (possibly the next year or so) he has no space at all for studying human skeletons.

The 1981 Summer Field School in archaeology was taught by Dr. Linda S. Cordell at Teypama Pueblo near Socorro. The excavations at the Pueblo were conducted in cooperation with the Bureau of Land Management. Officials of the BLM were extremely pleased by the work of Dr. Cordell and her students and hope to undertake similar cooperative ventures in the future. One of Dr. Cordell's graduate assistants will utilize some of the data uncovered during the summer as part of her doctoral dissertation. The Summer program definitely continues to be an excellent training experience for undergraduate and graduate students alike.

Our graduate program appears to be flourishing, particularly in archaeology (see Table 1, for details), although our support level for graduate students remains relatively low. As was mentioned last year, an important segment of the Department's teaching energies are devoted to this program although it doesn't produce large credit hour figures as big enrollment lower-division courses do.

Two faculty members, Dr. Linda S. Cordell and Dr. Caroline Bledsoe were on leave last year, while Dr. Philip Bock was on sabbatical. Dr. Cordell had a Weatherhead Fellowship at the School of American Research in Santa Fe (as did one of our graduate students, Peter Whitely) where she worked on a book on Southwestern Archaeology, Dr. Bledsoe undertook research on demography in Sierra Leone supported by Ford-Rockefeller and NSF grants, and Dr. Bock did research on an anthropological analysis of Shakespeare in several European countries. As replacements, Dr. Susan Kent and Dr. James Wessman joined the department for the year as Visiting Assistant Professors.

It should also be noted that with the cooperation and support of Administrative Vice President "Swede" Johnson and Robert Lalicker, head of the UNM Foundation, the Department and the Maxwell Museum launched a major fund-raising effort to build a new wing for the Maxwell Museum (along with a series of new programs) and create two endowed professorships. Details of this new effort are contained in a handsome brochure which is being circulated to potential donors. It is hoped that 1982-83 will see some initial successes for our fund-raising efforts.

Finally, it should be pointed out that general esprit in the Department is high. We believe that we have one of the finest departments in the country and one of the strongest graduate programs currently being offered. With continued support from the administration, the Department hopes to maintain and further strengthen the level of excellence which it already has achieved.

Separate reports from the Maxwell Museum, Office of Contract Archaeology, and the Chaco Center follow.

TABLE 1
GRADUATE PROGRAM INFORMATION
1981-82

Registration Data

	<u>Registration</u>	<u>Female</u>	<u>Male</u>
Fall 1981	93	47	46
Spring 1982	99	49	50

Degrees Awarded

	<u>Ethnology</u>	<u>Archaeology</u>	<u>Linguistics</u>	<u>Biological</u>
Fall 1981	4 MA 1 PhD	5 MA 1 MS 2 PhD		
Spring 1982		1 PhD		

Graduate Students in each Sub-discipline

	<u>Ethnology</u>	<u>Archaeology</u>	<u>Linguistics</u>	<u>Biological</u>
Fall 1981	24	53	2	12
Spring 1982	27	55	2	15

Applicants

	<u>Applicants</u>	<u>Accepted By Us</u>	<u>Enrolled</u>
Fall 1981	109	82	17
Spring 1982	30	11	9

Financial Aid

Graduate Assistantships: 7 Full; 1 Half
 Work Study: 14
 NSF Fellowship: 1
 OCA or Chaco: 4 Full (work study)
 HEW Grant: 1
 Byron Harvey Fellowship: 1
 Freida Butler Fellowship: 3
 Steven Hamann Fellowship: 1

Anthropology Colloquia, Guest Lectures, and Harvey Lectures
1981-82

Colloquia

Dr. Lewis R. Binford	Hyenas, Bushmen and Archaeologists - A Report on a Recent Trip to Africa
Dr. Peter D. Harrison	Pulltrouser Swamp Revisited
Dr. Lawrence G. Straus	UNM Excavations at Abri Dufaure, Southwest France
Dr. J. G. Nandris	The Aromani (Vlahs) of Greece; A Paradigm of Seasonality and Identity
Dr. Carmel Schrire	The Impact of Uranium Mining in Hunter-Gatherer Life (Australia)
Mr. Alan R. Rogers	What is the Role of Local Differentiation in Phenotypic Evolution?
Mr. Jack Bertram	The Taphonomy of Small Archaeofauna
Mr. Lawrence Todd	Analysis of Kill - Butchery Sites An Early Holocene Example
Mr. Pacho Lane	The Tree of Life
Dr. Brigitte Fleischmann	The Rio Grande Pueblos in Historiography and Literature
Dr. R. Ted Steinbock	Discoveries in Paleopathology
Dr. Louise Lamphere	Women's Work and Family Strategies: Comparisons from the "Frostbelt" and the "Sunbelt"
Mr. Martin Etter	Ecological Factors in the Evolution of Matrifocal Social Organization
Dr. Randy White	Upper Paleolithic Settlement Patterns in Southern France
Ms. Amy Earls	The Organization of Piro Pueblo Subsistence
Ms. Teddy Dressel	Mechanisms of Incorporation into the Old Age Grade as Indicators of Old Age Grade Identity
Dr. Lynn Hirschkind	Cuzco Colonial Painting

Special Harvey Lectures

- | | |
|----------------------|---|
| Dr. Bruce Bradley | Flintknapping Demonstration and Discussion |
| Dr. Jonathon Ericson | Advances in Biogeochemistry Applied to Anthropology |
| Dr. Erik Trinkaus | Meanderings on the Neanderthals |
| Dr. Peter Woodman | The Irish Mesolithic and Problems of Site Structure |

Harvey Lectures

- | | |
|----------------------|-----------------------------------|
| Dr. Mary Douglas | Purity and Danger in Modern Times |
| Dr. A. Colin Renfrew | Systems Collapse |

The Report of the Journal of Anthropological Research

July 1, 1981 - June 30, 1982

Philip K. Bock, Editor-Designate

During the past year, thanks to the devoted efforts of Professor Emeritus Harry Basehart, the Journal published seven issues and is now on schedule once again with Summer, 1982, in the mail. The large backlog of manuscripts has been exhausted, and incoming editor Bock will begin with a virtually clean slate on July 1, 1982. During the coming year he hopes to increase both subscriptions and submissions to the Journal by increased publicity and a more aggressive approach to soliciting manuscripts. Associate editors will be appointed at other institutions around the country to aid in the search for excellent articles, and letters will be sent to all major teaching and research institutions, urging renewal of subscriptions.

A new editorial board has been appointed. It consists of former editors H. Basehart and J. Spuhler, plus Anthropology Department Chairman J. Sabloff (formerly the editor of American Antiquity, the nation's leading journal of archaeology). This board will advise the Editor on matters of policy and expenditures. Unfortunately, Ms. Nancy Moran, the subscriptions secretary for the past nine years, has indicated her desire to resign from that position due to ill health. It is hoped that her replacement will be equally qualified and dedicated.

The four issues comprising Volume 37 of the Journal included 28 articles covering all fields of anthropology, plus a number of book reviews and notes, totaling 424 pages. The first two issues of Volume 38 contain 12 articles and already total 252 pages. The only major editorial

change presently planned is to publish occasional manuscripts of greater length, up to 150 manuscript pages (i.e., entire issues). It is felt that there is a need for additional outlets for such works; provided that they meet the Journal's criteria and would be of interest to most readers, we are prepared to publish them as often as once each year.

Staff publications and professional activities are reported elsewhere with one exception: copy editor David Margolin is co-author with Jonathan Wylie of The Ring of Dancers: Images of Faroese Culture. Philadelphia: University of Pennsylvania Press (1981, 182 pp.). Many members of the anthropology department continue to contribute their time to evaluating manuscripts for the Journal; their efforts are acknowledged in those pages. It is also planned to appoint a Book Review editor to handle the increasing flow of review copies.

(An analysis of subscriptions will be presented in the next Annual Report, and an overview of 40 years of publication will be prepared for the 1983-84 Report.)

Report of The Office of Contract Archeology

July 1, 1981 - June 30, 1982

Joseph C. Winter, Director

I. Review of Activities

During the past year the O.C.A. completed 41 projects and is currently involved in 10. Major completed projects include the Baca Geothermal Mitigation Project in the Jemez Mountains, the Carbon Coal Excavation/Ethnographic Project near Gallup, the Ridges Basin Survey Project near Durango, the Albermarle Survey in the Jemez Mountains, the Texas Eastern Synfuels Plant and Pipeline overviews, the Jemez Pueblo Monitoring Project, the Crownpoint overview, the Cuchillo Negro overview, the MAPCO Monitoring/Excavation project, the Sevilleta Test Excavation Program, and last but certainly not least the Pittsburg-Midway McKinley Mine Mitigation Project. The latter project is the last of a number of major projects inherited from the former Director and Assistant Director of the office; after having to spend a year reanalyzing much of the data and rewriting much of the draft report, Dr. Ben Nelson, our new (since 7/1/81) Assistant Director, completed an excellent 2 volume report on June 10, 1982.

Major ongoing projects include the Bernalillo Excavation report, which is in press; the Lemitar Church/Cemetery Evaluation program, which is also in press; the Sandia Test Excavation program, of which the report is nearly completed; the ARCO pipeline survey/excavation/burial removal program; and the Texas Eastern Pipeline survey. All 1981-1982 projects are listed and briefly described at the end of this report.

2. Priorities

As described in last year's annual report, a number of new directions have been established since 1979. These directions are now firmly established as priorities which guide our work. As spelled out in the O.C.A. Policy Manual, our overall purposes are:

A. To serve as a research vehicle for archeological, ethnographic,

ethnohistoric and related anthropological projects in New Mexico and adjacent parts of the Southwest.

B. To carry out a full range of cultural resource management projects, including small, moderate and large sized surveys, test excavations, ethnographic and ethnohistoric investigations, mitigation programs, overviews, feasibility studies, reviews, and related projects. All cultural resource management projects are to be carried out within a solid, productive research framework.

C. To develop non-cultural resource management research projects, through grants and other forms of funding, when possible. The O.C.A. also funds small research projects by Anthropology Department faculty and students and other personnel.

D. To provide an opportunity for Anthropology Department students to work on research projects and participate in cultural resource management. The Director and Assistant Director of the O.C.A. also teach anthropology classes, and serve on graduate committees. O.C.A. projects and data are available for theses, dissertations and related student projects.

E. To provide cultural resource management assistance to local, state and national government agencies, private industries, individuals, environmental consulting firms, and other interested parties. Contracts between the O.C.A./UNM and such entities are the primary method by which the preceding four purposes are carried out.

These general goals have been carried out in a number of ways:

1. New Mexico Wide and Out-of-State Projects - Although the bulk of our research occurs in the northwest quarter of the state, a number of major projects now take place throughout New Mexico and adjacent states. The ARCO pipeline survey/mitigation program runs from Wallsenburg, Colorado to the Texas border near Portales, while the MAPCO monitoring project began in Texas, ran through most of New Mexico, crossed part of Colorado, and ended at the Utah border. Our Fort Bliss project is in southern New Mexico,

while the Texas Eastern pipeline survey begins near Ignacio, Colorado and ends at Thoreau, New Mexico.

2. Albuquerque Area Research - As discussed in last year's report, we are increasing our local work so as to provide a vehicle for student and staff research and to provide community services. A number of surveys occurred on the Isleta and Laguna reservations, and a major test excavation took place in the Sandia reservation. My field excavation class involved the Chamisal Site in the north valley.

3. Class Work and Students - I taught a local field course, while Dr. Nelson taught a section of Introductory Archeology and one independent readings course in the archeology of Texas and adjacent areas. I am now serving on five graduate student committees. Over the past year fifteen anthropology graduate students have worked regularly for us.

4. Research Grants - I submitted two proposals to the State for planning grants, while Dr. Nelson cosponsored an NSF grant proposal for research near Deming. None were awarded, but we plan to continue our proposal efforts, especially since the Pittsburg-McKinley project is completed. I was able to continue my Sevilleta research, having made two trips to the refuge, in addition to our test excavations at six sites at the refuge.

5. Outside Professional Activities - I completed the editing of my School of American Research Advanced Seminar book on High Altitude Adaptations, and it has been accepted for publication by the U. S. Forest Service. I also edited a volume of the Contract Abstracts journal, and presented a paper at one national meeting. Five papers were accepted for publication in books and journals. Dr. Nelson had one paper published in a journal, while Dan Scurlock, a consulting historian with the office, had one paper published that was based on an office project. Fred York, consulting ethnologist, and John Ware, an archeologist with O.C.A., also published papers related to office projects. I am also coediting a volume on local archeology which grew out of my 1981 Cultural Resource Management class, and have one paper in it. Finally, Dr. Linda Cordell coauthored one of the chapters in the McKinley Mine report and authored a second one in the report.

III. Challenges and Goals

The biggest challenge confronting us this past year was completing the McKinley Mine report. This report has been completed. A second long-range challenge concerns the threatened changes of Federal Regulations which govern cultural resource management. The Reagan administration plans to eliminate certain regulations and relax others, thereby reducing the need for much of our work. Archeologists throughout the nation are fighting these attempts, but the long-range forecast does not look good. Our greatest challenge is to stop these attempts, and when necessary adjust to any resulting changes. Fortunately, we have developed a broad-based program of research throughout New Mexico and southern Colorado, with expertise in many fields of cultural resource management, such as excavation, surveys, overviews, monitoring, historic analysis, and ethnographic research, so our program should remain healthy. We also plan to increase our efforts at obtaining grant support. We will also continue our use of graduate students, and we will continue to function as an academically meaningful program.

IV. Appointments and Separations

Dr. Ben Nelson replaced Dr. Mark Harlan as Assistant Director on 7/1/81.

Summary of O.C.A. Activities

7/1/81-7/1/82

<u>Project</u>	<u>Sponsor</u>	<u>Brief Description</u>	<u>Status</u>
185-91	Carbon Coal	Test Excavation of 2 sites and Ethnographic Interview Program	Completed
185-44	Union Oil Geothermal	Archeological/Ethnographic Mitigation Project in Baca #1	Completed
185-28a	Pittsburgh and Midway Co.	Archeologica/Ethnographic Mitigation Program near Gallup	Completed
185-99	Weller Assoc.	Survey of 9.0 acres	Completed
185-64	ESCA Tech	Survey of 5700 acres	Completed
185-104	Keramamex	Survey of Albemarle Gold Mine/Town	Completed
185-107	Eastern Texas Trans- mission Corp.	Overview of 162 miles of Transmission Route	Completed
185-119	PNM	Flagging of Known Sites on 300 mile Transmission Line	Completed
185-131a	Indian Health Service	Monitoring at Jemez Pueblo	Completed
185-131b	Indian Health Service	Monitoring at Taos Pueblo	Completed
185-131c	Indian Health Service	Monitoring at Acoma Pueblo	Completed
185-131d	Indian Health Service	Monitoring at Zia Pueblo	Completed
185-118	Texas Eastern Transmission Corp.	Overview of Synfuels Project	Completed
185-79	Sverdrup Co.	Overview/Survey of Crown Point Sewer System	Completed
185-88	Chevron	Test Excavation of 6 sites	Completed
185-98	Chevron	Survey of 9.8 mile pipeline	Completed
185-93	Army Corps of Engineers	Overview near Truth or Consequences and Cuchillo Negro	Completed
185-71	Woodward-Clyde	Monitoring of MAPCO Pipeline and Testing 3 sites	Completed
185-115	AMDEC	Survey of 30 acres	Completed

<u>Project</u>	<u>Sponsor</u>	<u>Brief Description</u>	<u>Status</u>
185-110	UII	Survey of 6 Stock Ponds	Completed
185-109/111	City of Tucumcari	Survey of 2 Ethanol Plants	Completed
185-108	PNM	Survey of 953 acres	Completed
185-106C	Salt River Project	Survey of 12 Drill Holes	Completed
185-106A	Salt River Project	Survey of 3 Drill Holes	Completed
185-106	Salt River Project	Survey of 3 Drill Holes	Completed
185-105	Pathfinder	Survey of 660 acres	Completed
185-100	Pathfinder	Survey of 2 Drill Holes	Completed
185-33K	PNM	Survey of 400 acres	Completed
185-33L	PNM	Survey of 80 acres	Completed
185-116	PNM	Survey of 12 Wells	Completed
185-148	Sierra Minerals	Survey of 2 drill holes	Completed
185-129	Gas Co. of New Mexico	Survey of 14 miles of pipeline on Laguna Reservation	Completed
185-146	Gas Co. of New Mexico	Survey of 2 miles of pipeline on Laguna Reservation	Completed
185-121	Gas Co. of New Mexico	Realignment of pipeline around 2 sites on Isleta Reservation	Completed
185-129a	Gas Co. of New Mexico	Realignment of pipeline around 6 sites on Laguna Reservation	Completed
185-122	Westec	Survey of 4 well areas	Completed
185-127	Kinney Brick	Survey of 15 drill holes	Completed
185-132	UII	Survey of 4 acres	Completed
185-133	Carbon Coal	Identification and Relocation of Navajo Grave	Completed
185-136	Kerr-McGee	Survey of 1/4 section	Completed
185-137	UII	Survey of 3 access roads	Completed
185-58a	Timberman Corp.	Excavation of 1 site	Final Report in Press

<u>Project</u>	<u>Sponsor</u>	<u>Brief Description</u>	<u>Status</u>
185-94	UII	Mitigation Program for 35 sites	Draft Report in preparation
185-101	ARCO	Survey of 236 miles of pipeline	Final Report in preparation
185-123	U. S. Army Fort Bliss	Monitoring Fort Bliss' Historic Preservation Program	In Progress
185-120	BLM	Recording Lemitar Church and Cemetery	Final Report in Press
185-140	Salt River Project	Survey of 40 drill holes and roads	Report in preparation
185-101b	ARCO	Testing/monitoring of 15 sites	Report in preparation
185-101e	ARCO	Removal of 12 burials	Report in preparation
185-107c	Texas Eastern Transmission Corp.	Survey of 162 miles of pipeline	Field work in Progress
185-142	New Mexico Aggregate	Test Excavation of 1 site	Final Report in preparation

The Report of the Division of Cultural Research

July 1, 1981 - June 30, 1982

W. James Judge, Chief

The Division of Cultural Research, a National Park Service supported research facility working in cooperation with the University of New Mexico, began the year with six permanent employees and eleven temporary employees who continued laboratory analyses and syntheses of material obtained during previous years' excavations and related research in Chaco Canyon.

In order to comply with Public Law 96-550, enacted on December 19, 1980, which provides for the continuation of research and data-gathering activities on the Chaco Culture of the San Juan Basin, and the continued development and refinement of a computerized cultural resource data base in the San Juan Basin, one staff member was assigned full-time to this project. He assisted in the preparation of an interagency management plan for outlying Chacoan sites, as well as a new management plan for Chaco Culture National Historical Park. Survey of a number of outlying areas in order to verify boundaries and legal descriptions, as well as confirm their value as Archeological Protection Sites, was carried out. In addition, a reconnaissance survey of sections added to the Park was begun.

With regard to computerized information on Chacoan sites, a number of variable overlays (arroyos, historic and prehistoric roads and stairways, and historical structures) were digitized to add to the existing site data base. Information on other variables is being collected. Information on Chaco sites is currently being coded for entry into several other data

bases, including the Laboratory of Anthropology, SARG, and the National Park Service List of Classified Structures.

In conjunction with expanded knowledge on the size and complexity of the Chacoan culture, the Division worked closely with the National Geographic Society in the preparation of an extensive article on the Anasazi to be published in the Magazine in November. In addition, Division staff members assisted in the preparation of a National Park Service film on the Anasazi to be shown in Parks in the Southwest, in preparing a new museum exhibit for the Visitors Center in Chaco Canyon, and in creating new way-side exhibits to be installed in the Park. In cooperation with the Maxwell Museum, a number of staff members have contributed to the forthcoming traveling exhibit on the Chaco culture.

Emphasis on the analysis of materials collected during prior fieldwork continued to occupy most of the professional staff members' time. Both the faunal and chipped stone analyses for all excavated sites have been completed, and reports on ceramics, ground stone, ornaments, floral remains, environmental data and architectural data are near completion. Five articles were published in professional journals; four are in press. Several preliminary reports were added to the Division library; and twelve papers were presented at four different professional meetings by various members of the staff. Lists of these publications and reports are attached. A major synthesis of Chacoan outlying communities is currently undergoing editing in preparation for publication.

The Division continued to cooperate with the teaching and research programs of various faculty, staff, and students. Cooperative programs with the University of New Mexico Departments of Anthropology, Biology,

Education, Geology, Photo Services, Office of Contract Archaeology, and Technology Applications Center continued. Dr. Judge and the staff offered both formal and informal training in Southwest archeology to University students in various aspects of Chacoan and Chaco-related research. Dr. Judge continues to serve as Chairman or member of several M.A. and Ph.D. graduate committees and to teach graduate and undergraduate courses in the Department.

Joint programs were also conducted with other National Park Service Divisions, the Interagency Archaeological Committee, the Bureau of Land Management, the Bureau of Indian Affairs, the New Mexico Archaeological Society, and several private research foundations. In addition, Dr. Judge was appointed to the Secretary of Interior's Task Force to develop nationwide standards for the conduct of archeology, and to the Research Committee of the Center for American Archeology. He continued to serve as Treasurer of the Society for American Archaeology.

Closely related to the Division's functions are those of the Division of Remote Sensing, another National Park Service unit housed on the UNM campus under a cooperative agreement with the University. Its activities are directed toward the application of remote sensing methods such as aerial photographic interpretation, photogrammetric mapping, and digital and optical analysis of spacecraft-derived data to problems of archaeology, ethnology, and the management and protection of cultural resources, primarily within the National Park system.

During the past year, the Division of Remote Sensing carried out a number of projects involving both general research in cultural resources remote sensing and application of these methods to specific problems. A

project under which the U.S. Air Force and the Division cooperate to acquire aerial photographic coverage of western Parks collected 13 more major target areas, bringing the total parks covered to 87. Other photo-interpretive projects were carried out at Salinas National Monument, Martin Van Buren National Historic Site (New York), Bandelier National Monument, and Chaco Culture National Historical Park.

Division personnel presented a number of papers, chaired symposia, and published articles during 1981-81. Jim Ebert, chairman of the Archaeology and Anthropology Committee of the American Society of Photogrammetry, organized and moderated a symposium at that society's annual meeting in Denver. Both Ebert and Dwight Drager presented papers at the meeting. Ebert also presented a paper at the annual meeting of the Society for American Archaeology, and Drager addressed a meeting of the New Mexico Archaeological Council in Chaco Canyon.

International events also figured in Division activities in 1981-82. Drager attended the New World Conference on Rescue Archaeology in Quito, Ecuador, and conducted a workshop on remote sensing for cultural resources management. Ebert was invited to the International Symposium on Aerial Photography and Archaeology in Amsterdam, the Netherlands, where he presented a paper on Aerial Archaeology and Cultural Resources Remote Sensing.

The Division, in cooperation with the Technology Applications Center at the University of New Mexico, completed the preparation of a curriculum in "Cultural Resources Remote Sensing" designed to be presented as a week-long workshop including slide, film, lecture, and hands-on presentations. The Division also published three additional supplements to the Remote

Sensing Handbook (see attached list). In addition, Ebert edited and wrote portions of chapter 26 of the Manual of Remote Sensing, 2nd Edition, "Archaeology, Anthropology, and Cultural Resources Management" which included contributions by Drager and Devon Dederich of the Division. Drager succeeded Jim Ebert as Chairman of the Archeology and Anthropology Committee of the ASP.

In February, Tom Lyons, who had headed the Division for nearly 10 years, retired from the Park Service and became an adjunct professor in the Department of Geography at the University of New Mexico.

Division of Cultural Research

Published Papers:

Judge, W. James

1982 The Chaco Project. Early Man 4(1):22-25.

Judge, W. James, William B. Gillespie, Stephen H. Lekson, and H. Wolcott Toll

1981 Tenth Century Developments in Chaco Canyon. In Collected Papers in Honor of Erik Kellerman Reed, edited by A. H. Schroeder, pp. 65-98. Papers of the Archaeological Society of New Mexico 6.

Lekson, Stephen H.

1981 Cognitive Frameworks and Chacoan Architecture. New Mexico Journal of Science 21(1):27-36.

Mathien, Frances Joan

1981 Neutron Activation of Turquoise Artifacts from Chaco Canyon, New Mexico. Current Anthropology 22(3):293-294.

Toll, H. Wolcott

1981 Ceramic Comparisons Concerning Redistribution in Chaco Canyon, New Mexico. In Production and Distribution: A Ceramic Viewpoint, edited by H. Howard and E.L. Morris, pp. 83-121. British Archaeological Reports S120, Oxford, England.In Press:

Brugge, David M.

Tsegai: Archeological Ethnohistory of the Chaco Region. National Park Service, U.S. Government Printing Office, Washington, D.C.

Lekson, Stephen H.

Chacoan Architecture in a Continental Context. Proceedings of the Anasazi Symposium, Mesa Verde National Park, Oct. 1-3, 1981.

Mathien, Frances Joan

The Mobile Trader and the Chacoan Anasazi. Proceedings of the Anasazi Symposium, Mesa Verde National Park, Oct. 1-3, 1981.

Windes, Thomas C.

A View of the Cibola Whiteware from Chaco Canyon. Arizona State University Press.

Papers Presented

Judge, W. James

1981 Pecos Conference Report, Fort Burgwin.

Lekson, Stephen H.

1981 Chacoan Architecture in a Continental Context. Anasazi Symposium, Mesa Verde National Park, Oct. 1-3.

Mathien, Frances Joan

1981 The Mobile Trader and the Chacoan Anasazi. Anasazi Symposium, Mesa Verde National Park, Oct. 1-3, 1981.

Akins, Nancy J.

1982 Faunal Exploitation in Chaco Canyon, New Mexico. 47th Annual Meeting of the Society for American Archaeology, Minneapolis.

Schelberg, John D.

1982 The Development of Social Complexity in Chaco Canyon. 47th Annual Meeting of the Society for American Archaeology, Minneapolis.

Windes, Thomas C.

1982 A Second Look at Population in Chaco Canyon. 47th Annual Meeting of the Society for American Archaeology, Minneapolis.

Lekson, Stephen H.

1982 Labor Organization in Bonito Phase Architecture. New Mexico Archeological Council, Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Mathien, Frances Joan, W. James Judge, and Andrew Drager

1982 Development of a Data Base Management System for Archeological Resource Conservation. New Mexico Archeological Council, Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Powers, Robert P.

1982 Progress Report on the Draft Joint Management Plan for the Chacoan Archeological Protection Sites. New Mexico Archeological Council, Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Windes. Thomas C.

- 1982 The Patterns of Chacoan Trash Disposal. New Mexico Archeological Council. Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Akins. Nancy J.

- 1982 Faunal Exploitation in Chaco Canyon. New Mexico. New Mexico Archeological Council, Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Schelberg. John D.

- 1982 The Development of Social Complexity in Chaco Canyon. New Mexico Archeological Council, Workshop No. 1: Archeological Research in the San Juan Basin, Chaco Culture National Historical Park.

Supplements to the REMOTE SENSING HANDBOOK

Morain. Stanley A., Thomas K. Budge. and Amelia Komarek

- 1981 Multispectral Analyses of Cultural Resources: Chaco Canyon and Bandelier National Monument. Supplement No. 5.

Baker. Craig. and George J. Gumerman

- 1981 Archeological Applications of Remote Sensing in the North Central Lowlands. Supplement No. 6.

Avery, Thomas Eugene, and Thomas R. Lyons

- 1981 Aerial and Terrestrial Photography for Archeologists. Supplement No. 7.

B. Significant Plans and Recommendations for the Future

See section A.

D. Separations from Staff

Office Staff:

M. Earleen Bennett, Clerk Specialist IV, effective 12/15/81

E. Sponsored Research or Other Projects

<u>Name</u>	<u>Title</u>	<u>Agency</u>	<u>Accepted</u>
Caroline Bledsoe (2 grants)	The Relationship of Fosterage to Child Mortality, Fertility, and Modernization in Sierra Leone	NSF & Ford- Rockefeller	Continuing
John Fritz	Vijayanagara: The Urban Plan	NSF & NEH	Yes
Louise Lamphere	Women's Work and Family Strategies in the Context of "Sunbelt" Industrialization	NSF	Yes
Robert S. Santley	Teotihuacan Influence at Matacapán, Veracruz: the structure, function and development of a foreign commercial enclave	NSF	Yes
Lawrence Straus	Abri Dufaure: Terminal Pleistocene Hunter- Gatherer Adaptations in Pyrenean France	NSF	Yes
Mari Lyn Salvador & J. J. Brody	Please see the Maxwell Museum portion of the Annual Report for grant proposals submitted by Dr. Salvador and Dr. Brody and members of their staff		

1. Publications

- Binford, Lewis R. Bones: Ancient Men and Modern Myths, New York: Academic Press 1981. "The Nature of Archaeology" The Listener 105(2707) 472-473. "Let the Present Serve the Past" The Listener 105(2708) 503-504. "Archaeology Can Serve Us in a Variety of Ways" The Listener 105(2709) 535-536. "Behavioral Archaeology/The Pompeii Premise" Journal of Anthropological Research.
- Bock, Philip K. Reviews of: G. Devereux, Basic Problems of Ethnopsychiatry in American Anthropologist v. 83:169-170; B. Nettl, Eight Urban Musical Cultures in Journal of Anthropological Research v. 36:400; R. deMille, The Don Juan Papers, in American Anthropologist 83(3): in press.
- Campbell, John M. With Howard C. Higgins, eds., The York Canyon Archaeological Project: 1980, 300 pp. The Kaiser Steel Corporation, Raton, New Mexico.
- Chisholm, James S. Prenatal Influences on Aboriginal-White Australian Differences in Neonatal Behavior, Ethnology and Sociobiology, 2:67-73, 1981. Social and Economic Change Among the Navajo: Residence Patterns and the Pickup Truck, Journal of Anthropological Research, 37(2): 148-157, 1981. Review of G. P. Murdock's Theories of Illness, in Journal of Anthropological Research, 37(2):193-194, 1981. In press, Developmental Plasticity: An Approach From Evolutionary Biology, in Neonate and Infant Cognition, Jacques Mehler and Robin Fox (eds).
- Cordell, Linda S. With F. Plog, Theory Building from the Bottom Up? American Antiquity 46(1):198-199. "Current Research: The Greater Southwest," American Antiquity 46(1): 212-221. With E. J. Devor, Naural-tube Defects in a Prehistoric Southwestern Indian Population, Annals of Human Biology 8(1):65-75. Academic Press publications in archaeology, American Antiquity 46(2):446-455. "The Wetherill Mesa Simulation, a retrospective view," chapter in Simulations in Archaeology, edited by Jeremy Sabloff, SAR and U.N.M. Press, pp. 119-141. Review of Limited Activity and Occupation Sites, edited by Albert E. Ward, Jr. the Kiva 46(1-2):128-129.
- Draper, Patricia "Father Absence & Reproduction Strategy: An Evolutionary Perspective" manuscript submitted for publication.

Publications (continued)

- Froehlich, Jeffrey W. Demography of Howler Monkeys (Alouatta palliata) on Barro Colorado Island, Panama 1981 Int. J. Primatology. 2:208-237. Seasonal and Differential Mortality by Sex in the Mantled Howler Monkey. 1981 Int. J. Primatology. 2:199-207.
- Judge, W. James Transect Sampling in Chaco Canyon--Evaluation of a Survey Technique. In Hayes, Brugge, Judge, "Archaeological Surveys of Chaco Canyon" NPS Arch. Studies 18A, pp.107-137. Tenth Century Developments in Chaco Canyon (Judge, et. al.) In A. Schroeder, ed., "Collected Papers in Honor of Eric Reed" NMAS Papers, No. 6, pp.65-98.
- Kent, Susan The Dog: An Archaeologist's Best Friend or Worst Enemy..." Journal of Field Archaeology 8:367-372; A Possible Recent Navajo Pottery Manufacturing Site...The Kiva 47:189-196; Hogans, Sacred Circles, and Symbols--The Navajo Use of Space. In Papers in honor of Leland Wyman, edited by Brugge and Frisbie.
- Ortiz, Alfonso "Popay's Leadership: A Pueblo Perspective", in El Palacio, Vol. 86, No. 4, pp. 18-22 (1981). "The Pueblo Revolt of 1680: In Commemoration" in CEREMONY OF BROTHERHOOD, editors Rudolfo Anaya and Simon J. Ortiz, pp. 7-17. Albuquerque, Academia Press (1981). "The Last Journey to the Mountaintop", in SCIENCE AND THE IRRATIONAL, edited by Hans Peter Duerr, pp. 60-72. Frankfurt, Germany; Syndikat (1981). Sources on the Hopi", (with Fred Eggan), Volume 9, Handbook of North American Indians, pp. 522-523 (published in 1980, but inadvertently omitted then). "Introduction", (pp. 2-5) and "Conference Summation" (pp. 71-85) in URBAN INDIANS: PROCEEDINGS OF THE THIRD ANNUAL CONFERENCE ON PROBLEMS AND ISSUES CONCERNING AMERICAN INDIANS TODAY, Newberry Library Center for the History of the American Indian, Chicago. Occasional Publications #4 (1981). FINAL REPORT AND RECOMMENDATIONS (co-authored with eight other Commissioners) National Commission on the Higher Education of Minorities, Higher Education Research Institute, Los Angeles (1981). Editor, Volume 10, The Southwest (including tribal profiles of non-Pueblo peoples and general survey articles), Handbook of North American Indians. Washington, Government Printing Office, 1982, in press.

Publications (continued)

- Rushforth, E. Scott Speaking to 'Relatives-through-marriage': Aspects of Communication among the Bear Lake Athapaskans JAR 37.1:28-45.
- Sabloff, Jeremy A. Editor. Simulations in Archaeology. A School of American Research Book. University of New Mexico Press. Background. In: Simulations in Archaeology (edited by Jeremy A. Sabloff). pp. 3-10. University of New Mexico. Editor. Supplement to the Handbook of Middle American Indians, Vol.1, Archaeology. University of Texas Press. Maya. Encyclopedia Americana, 1981, edition. Vol. 18, pp. 539-545. (With Lynne Sebastian) Editor's Corner. In: American Antiquity, Vol. 46, No. 2, p. 243. Review of The Puuc, by H. E. D. Pollock. Hispanic American Historical Review. Vol. 61, No. 3, pp. 507-508.
- Salvador, Mari Lyn Festas Acoreanas: Portuguese Religious Celebrations in California and the Azores. The Oakland Museum, 120 pgs. December 1981.
- Spuhler, James N. Two book reviews were published during 1981, both in Journal of Anthropological Research: Zuni: Selected writing of Frank Hamilton Cushing (36(2): 258-260), and The evolution of culture in animals, by J. T. Bonner (36(3):400-404).
- Straus, Lawrence G. Observations on Upper Paleolithic art: Old problems and new directions. Zephyrus 31:. On the habitat and diet of Cervus elaphus. Munibe.33:. Excavations en la Cueva de la Riera (1976-1979): Un estudio inicial. Trabajos de Prehistoria 38 (with La Riera Project members). Excavaciones antiguas en la cueva del Rascano, in El Paleolitico Superior de la Cueva del Rascano (J. Gonzalez Echegarary & I. Barandiaran, eds.), Monografias del Centro de Investigacion y Museo de Altamira, No. 3, pp.13-24. Paleoecology at La Riera (Asturias, Spain). Current Anthropology 22: (with La Riera Project members). Review of A Complete Manual of Field Archaeology: Tools and Techniques of Field Work for Archaeologists, by Martha Joukowsky, in Journal of Anthropological Research 37:104-106. Magdalenian excavations in Les Landes (SW France). Old World Archaeology Newsletter 5 (3):6-8. Reply to CA* Comments on Straus et al., "Paleoecology at La Riers". Current Anthropology 22:.

- Straus, Lawrence G. Two reports (in French) for the French Govt. and
(continued) for N.S.F. on my 1981 excavations at Abri Dufaure,
Les Landes.
- Weigle, Mary M. "About Cleofas Martinez de Jaramillo," in THE
GENUINE NEW MEXICO TASTY RECIPES, by Cleofas M.
Jaramillo, pp. 19-20 (Santa Fe: Ancient City Press).
Guadalupe Baca de Gallegos' "Los tres preciosidas
(The Three Treasures)": Notes on the Tale, Its
Narrator and Collector," NEW MEXICO FOLKLORE
RECORD 15: 31-35. "The Penitente Brotherhood in
Southwestern Fiction: Notes on Folklife and
Literature," In Sam B. Girgus, ed., THE AMERICAN
SELF: MYTH, IDEOLOGY AND POPULAR CULTURE, pp. 221-30
(Albuquerque: University of New Mexico Press).
- Wessman, James W. Anthropology and Marxism, Schenkman Publishing
Company, 1981; "Neomalthusian Ideology and Colonial
Capitalism: Population Dynamics in Southwestern
Puerto Rico. In And the Poor Get Children, edited
by Karen Michaelson. New York: Monthly Review
Press. "Encomienda, Hacienda, Colonia: The Social
History of the Hacienda San Francisco in Sobana.
Grande. In Social Research in Puerto Rico, edited
by Ronald J. Duncan. San Juan: Inter American
University Press. "El Lamento de Agustin Perez:
La Retorica de un Conflicto Sobre Tierra en Jalisco
al Principio del Sigle XX. Relaciones (published
at the Colegio de Michoacan, Zamora, Michoacan,
Mexico).

2. Other research projects or creative work in progress or completed during period

- Alvarado, Anita L. Research on bibliography on health problems of Southwestern populations. Research team member on project investigating newly discovered chromosomal abnormality in West.
- Barrett, Richard A. Book on cultural anthropology, under contract with Benjamin/Cummings for publication. Review for Hispanic American Historical Review.
- Binford, Lewis R. Book Working At Archaeology due to be published soon.
- Bock, Philip K. Continued research on Elizabethan culture and monograph on social structure/theory.
- Brody, J. J. Ms. of Anasazi painting book about 50% completed; Article: (10 ms. pp.) "Museum Consultants, Roles and Responsibilities" completed, submitted to Council for Museum Anthropology "Newsletter"; essay: (20 ms. pp.) "The Elkus Collection of Modern Indian Painting" completed, submitted to California Academy of Sciences for publication in their Elkus Catalog. Ms. in progress (with Steve LeBlanc), Mimbres Painted Pottery for book-length catalog to be published by American Federation of Arts. "The Chaco Phenomenon" grant proposal (successful for \$75,000) for museum exhibition submitted to NEH.
- Campbell, John M. With Dennis T. Stanford, Smithsonian - paper on the Avingak Culture, North Alaska
- Chisholm, James S. In prep. Navajo Infancy: An Ethological Study of Child Development, to be published by Aldine Pub. Co.
- Cordell, Linda S. Summer field research, UNM field school director, Sorocco, New Mexico. Work on monograph, "Prehistory of the Pueblo Southwest" during leave.
- Draper, Patricia "Father Absence and Reproductive Strategy: An Evolutionary Perspective" manuscript submitted for publication.
- Froehlich, Jeffrey W. Fraternal kin-selection in mantled howling monkeys. (in preparation. Food limitation in a small island population of howling monkeys. (In preparation). Fingerprint variation within and between two breeding populations of Central American howler monkeys. (In preparation).

Other research projects or creative work in progress or completed during period (continued)

- Gorbet, Larry P. "Notes on Bear Lake Athapaskan Relative Clauses," (with S. Rushforth), submitted to International J. of American Linguistics. Revision for publication of "Assertional structure of NP's and the Category Squish" (earlier version presented at Annual Meeting of the Linguistic Society of America). Pragmatics of noun phrase conjunction (preliminary results presented at Annual Meeting of the Linguistic Society of America). Semantics and pragmatics of English reciprocal constructions (preliminary results presented to Annual Meeting of the LSA). Work begun on a monograph of the history of linguistic theory in the U.S. and Canada from 1965 to 1980. Graduate seminar on this subject conducted Spring 1981. Work begun on applications of the Space Grammar framework to analysis of discourse structure and function.
- Judge, W. James In progress: Research in Chaco Canyon for Southwest Anthropological Research Group (SARG). In progress: Completion of research reports on Chaco canyon archaeology. In progress: Development of computerized data base management system for cultural resources. In progress: Development of a regional research design for Interagency Archaeological Comm.
- Kent, Susan Submitted grant proposal to NSF for summer research.
- Ortiz, Alfonso Editor, Vol. 10 (non-Pueblo SW), Handbook of NA Indians (nearly completed by end of 1981). Editor, volume of papers on the Tewa resulting from SAR (Santa Fe) Advanced Seminar. Co-editor, (with Ray DeMallie) of a volume on North American Indian studies in honor of Fred Eggan (most papers received October-December, 1981). Co-editor (with Margaret D. Ortiz) of a volume on NA Indian mythology, in progress.
- Rhine, J. Stanley Continuing research into facial reproduction, skeletal morphological variability, human paleopathology, identification and analysis of burned remains, etc.
- Rushforth, E. Scott Accepted for publication: Kinship Classification among the Bear Lake Athapaskans: a Structural Semantic Approach, American Ethnologist. Submitted for publication: to IJAL Notes on Bear Lake Athapaskan Relative Clauses (with Larry Gorbet); to the Canadian National Museum Kinship and Task Group Formation among the Bear Lake Athapaskans. Completed research: Mescalero Apache Dictionary-to be published by the Mescalero Apache Tribe.

Other research projects or creative work in progress or completed during period (continued)

- Sabloff, Jeremy A. Editor of Archaeology: Myth and Reality. A Scientific American Reader which will be published in 1982 by W. H. Freeman; editor of Analyses of Fine Paste Ceramics which will be published in 1982 by the Peabody Museum, Harvard University; co-author (with D. Freidel) of a major monograph on Archaeological Investigations on the Island of Cozumel: Decadent Period Settlement Patterns which is in press at the Arizona State Museum; author of several scholarly articles which will appear in 1982.
- Salvador, Mari Lyn Summer research, ethno-aesthetics study of religious ritual, Guatine, CA. NEH 2 year project including exhibition, publication and research \$78,000.00. Research and ethnographic photography. Ritual in Michoacan, 3 yrs. project NEH research, exhibition, \$111,168.
- Santley, Robert S. NSF \$69,983.00 Teotihuacan Influence at Maticapan, Vera Cruz 18 mths.
- Schwerin, Karl H. Jan. 1981 - Cultural survey of the Rio Platano Biosphere Reserve, Honduras, supported by the New York Zoological Society. Currently editing a book (with Dr. Dorothy Cattle) on Food Energy in the Tropics, to be published by Gordon & Breach. Writing a paper on "Contemporary Indian Populations of Latin America," to be published in Latin America: A Multidisciplinary Introduction, ed. by Jan K. Black.
- Sebring, James M. Monograph, Tea and Antipathy, being submitted to various publishers.
- Spuhler, James N. Continued work on a monograph on the historical biology of North American Indians; started work on a monograph on Evolution in the Order Primates.
- Straus, Lawrence G. N.S.F. Research Grant (4 years of fieldwork + all requisite analyses-total award of c.\$158,000): Abri Dufaufre Prehistoric Project. First excavation season conducted in May-Aug., 1981, with a crew of students from UNM and other American and European Institutions. I also have continued analysis, extensive international correspondence and writing related to the NSF sponsored LaRiers project. I have completed one book in Spanish (in press) and numerous articles during the course of 1981 (all in press). Also did several translations of science articles.

Other research projects or creative work in progress or completed during period (continued)

Weigle, Mary M.

Review of "And Other Neighborly Names": Social and Cultural Image in Texas Folklore, ed. Richard Bauman and Roger D. Abrahams. For American Anthropologist. Review of Hispanic Legends from New Mexico: Narratives from the R. D. Jameson Collection, ed. Stanley L. Robe. For Journal of American Folklore. Review of The South Corner of Time: Hopi Navajo Papago Yaqui Tribal Literature, ed. Larry Evers with Anya Dozier, Danny Lopez, Felipe Molina, Ellavina Tsosie Perkins, Emory Sekaquaptewa, Ofelia Zepeda. For NEW AMERICA, vol. 4, no. 3, 1982.

Review of SOUTHWESTERN INDIAN RITUAL DRAMA, ed. Charlotte J. Frisbie. for NEW AMERICA, vol. 4, no. 3, 1982. SPIDERS & SPINSTERS: WOMEN AND/IN MYTHOLOGY - a revision of the 1980 work now substantially completed and scheduled for publication by UNM Press in fall 1982. (with Kyle Fiore) SANTA FE AND TAOS: THE WRITER'S ERA, 1916-1941. Santa Fe: Ancient City Press, March 1982. (with Thomas R. Lyons) "Brothers and Neighbors: The Celebration of Community in Penitente Villages," for a book tentatively entitled CELEBRATION: A WORLD OF ART AND RITUAL, edited by Victor Turner. Smithsonian Inst., spring 1982. (with Mary Powell) "From Alice Corbin's 'Lines Mumbled in Sleep' to 'Eufemia's Sopapillas': Women and the Federal Writers' Project in New Mexico," for NEW AMERICA, vol. 4, no. 3, 1982. Los Hermanos Penitentes-Brothers of Our Father Jesus, for an anthology, THE FOLKLORE OF AMERICAN ETHNIC GROUPS: COLLECTIONS AND CRITIQUES, ed. Ronald J. Ambrosetti. Los Angeles: Alfred Publishing. The Penitentes, for DICTIONARY OF MEXICAN AMERICAN HISTORY, ed. Matt Meier and Feliciano Rivers. Westport, Conn.: Greenwood Press. The Southwest: A Regional Case Study, for HANDBOOK OF AMERICAN FOLKLORE, et. Richard M. Dorson. McGraw Hill.

In progress: BECAUSE THE MAGIC DREAMING. A novel. (with William Wroth, Taylor Museum, Colorado Springs Fine Arts Center) "Governmental Support of the Arts in New Mexico, 1933-1943," NEH Grant (2 books in progress; 3 more articles). (with Claudia Larcombe and Samuel H. Larcombe, Jr.) a volume on Hispanic borderlands, a collection in honor of E. Boyd, to be published jointly by UNM Press and the Spanish Colonial Arts Society.

3. Activities in learned and professional societies

- Alvarado, Anita L. Keynote speaker - workshop in Gerontology
- Binford, Lewis R. Keynote speaker - African Early Man Symposium-
Transvaal Museum
- Bock, Philip K. Attended sessions of James Joyce Symposium at UNM
Declined nomination to editorship of American Anth.
- Brody, J. J. Paper at Ethnohistory meetings, Colorado Springs, CO.
"Museum Consultants, Role and Responsibilities";
Board member, N. M. Archaeological Society; Policy
Advisory Committee member Roles Subcommittee, N. M.
Museum of Natural History; Florence Hawley Ellis
Museum of Anthropology Board Member.
- Chisholm, James S. "Developmental Plasticity: An Approach From
Evolutionary Biology," paper presented at a conference
on Neonate and Infant Cognition, sponsored by the
Harry Frank Guggenheim Foundation, New York, N. Y.
- Cordell, Linda S. Society of American Archaeology executive committee
member, two meetings in 1981; attended meeting of
the Southwestern Anthropological Research Group,
Nov. 1981; attended Pecos Conference, Taos, N. M.
- Draper, Patricia "Some Things Are Harder to Change Than Others"
paper presented at the African Studies Association
annual meeting, October 1981.
- Froehlich, Jeffrey W. Paper on Kin-selection in Howler Monkeys presented
at Annual Meeting of American Association of Physical
Anthropologists, Detroit, April 1981; Paper on New
Discoveries of Early Eocene Mammals in New Mexico
presented at Annual Meeting of N. M. Academy of
Science, Albuquerque, October, 1981.
- Judge, W. James Treasurer, Society for American Archaeology;
Chairman, Distinguished Service Award Comm. SAA;
Meetings attended: SEE (chaired session), AAA, Pecos
Conference (presented paper), Anasazi Symposium
(chaired session, SARG Conference.
- Kent, Susan Potential Sources of Distortions in Spatial Distri-
butions, Society for American Archaeology, San
Diego; One Potential Agent of Disturbance of the
Spatial Patterning of Faunal Remains, Alaska
Anthropological Association, Anchorage; Archaeology
Workshop, Denver Museum of Natural History, Denver;
Attended American Anthropology Conference, L. A.

Activities in learned and professional societies (continued)

- Ortiz, Alfonso Chairman, (continuing since 1977) Newberry Library's Center for the History of the American Indian's National Advisory Council (NLCHAI); Chairman and organizer, Symposium on the American Indian Religious Freedom Act of 1978, Ethnohistory meetings, and presented a paper (Colorado Springs); attended American Anthropological Association meetings (Los Angeles)
- Rhine, J. Stanley Paper: "The Body in the Plain Brown Wrapper (with H. R. Campbell, Jr.) American Academy Forensic Sciences, New Orleans, February. Paper: "Differential Diagnosis in Paleopathology: The Collapsed Vertebra" (W. L. Minear et al.) Southwest Anthropological Assn., San Diego, April 12, 1980. Informal (unscheduled) presentation on New Mexico Prison Riot at AAFS meetings in New Orleans.
- Rushforth, E. Scott Member, American Anthropological Association.
- Sabloff, Jeremy A. Completed my term as Editor of American Antiquity, the quarterly journal of the Society for American Archaeology; Nominations Committee, Section H, American Association for the Advancement of Science; attended the annual meeting of the Society for American Archaeology (San Diego).
- Salvador, Mari Lyn C. American Anthropological Association annual meetings, Los Angeles.
- Santley, Robert S. The Teotihuacan Settlement System: A Dendritic Politico-Economy. Paper presented at the 1981 Meeting of the American Anthropological Assoc., Los Angeles, Teotihuacan Influence, Obsidian Exchange, and Economic Imperialism in Mesoamerica. Paper presented at the symposium Obsidiana en Mesoamerica, Pachuca, Hidalgo, Mexico.
- Spuhler, James N. Member at large, Assembly of the Behavioral Sciences, National Research Council Chairman, Special Study Section on Anthropological Genetics, National Institutes of Health, Fellow, Explorers Club, New York.
- Straus, Lawrence G. Gave a paper in the Annual Meetings of the S.A.A., title, The La Riera Paleocological Project: Multidisciplinary International Research.
- Weigle, Mary Martha Editor, Publications of the American Folklore Society, n.s. (1 more vol. published, 5 in press or final editing stages in last year). Member, Ad Hoc Publications Committee, American Folklore Society, October 27. "A Mythology of One's Own: Mundus vs. Mythos," paper delivered at the Annual Meeting of

Activities in learned and professional societies (continued)

Weigle (continued)

the American Folklore Society, San Antonio, 25 October 1981. Brief presentation to the Working "Tertulia" of scholars interested in northern New Mexican Hispano culture, Taos, 25 July 1981. President and Editor, Ancient City Press, Inc., Santa Fe, July 1981. Consulting Editor, NEW AMERICA, special issue on women artists and writers of SW. Consultant, "Film Documentation and Analysis of the Penitente Brotherhood," NEH grant, Thomas R. Lyons and Charla A. Kolander, UNM. Consultant, "Hispanic Storytellers of New Mexico" and "Portraits of Spanish Storytellers," Youth and Media Grants, NEH, for Judy L. Goldberg and Juan P. Lopez, Self Reliance Foundation, Las Trampas, New Mexico, 1981-82. Mss. reviewed for UNM Press, Smithsonian Institution, JOURNAL OF AMERICAN FOLKLORE, proposals reviewed for NEH.

Wessman, James W.

Invited commentator at the Tercer Coloquio de Antropologia e Historia Regionales, sponsored by the Colegio de Michoacan in Samora, Michoacan, Mexico; invited participant and commentator at the Primer Encuentro de Investigacion Halisciense: Economia y Sociedad, held in Guadalajara; paper presented: "La Hacienda del Plan, 1920 a 1920: Analisis Socioeconomico de una Hacienda Jalisciense." Invited participant in the session "Third World Agrarian Labor History" at the Annual Meetings of the American Anthropological Association in Los Angeles. Paper presented: "Rural Social Struggles in Central Jalisco, Mexico, 1850-1920."

4. Other professional activities

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- Alvarado, Anita L. Member, National Screening Committee, Fulbright Fellowships, several lectures, UNM School of Medicine, Consultant, Maxwell Museum of Anthropology exhibit, Fiestas de San Juan Nuevo.
- Binford, Lewis R. Lectures: Jan. 17, Lecturer at University of Amsterdam, Netherlands; July 12, South African Museum, Capetown; Aug. 12, South African Wildlife Society, Capetown; Aug. 20, University of Wiewatersrand, Johanasburg, South Africa; Sept. 26, Parent's Day, Maxwell Museum.
- Bock, Philip K. Talk on "Normal and Abnormal" to Child Psychiatric Center, Jan. '81; talk on "Music & Society" to Senior Citizens Groups, May & July 1981; lectures (4) to CEP students in orientation sessions, June & July 1981; performed role of Allen in O. Hailey's "For the Use of the Hall" at Vortex Theatre in April 1981 (12 performances).
- Brody, J. J. Consultant, museum development for Acoma Pueblo; consultant, museum development for Zuni Pueblo; consultant, Dept. of Anthropology, California Academy of Sciences; consultant, Museum of the American Indian; consultant, Mimbres exhibition, American Federation of Arts; consultant, School of American Research. Lectures: (3) SAR; (4) Albuquerque service clubs. Grant applications reviews: NSF, NEH, NEA, IMS.
- Campbell, John M. Talk to Lions Club of Albuquerque, to Raton Historical Society, obtained \$111,000 collection for Maxwell Museum.
- Cordell, Linda S. Binford, delivered paper entitled Subsistence Systems in the Mountain Settings of the Rio Grande Valley, at the Annual Society for American Archaeology Meetings, San Diego. National Science Foundation Review Panel member; attended two meetings in 1981, in San Diego & Washington, D.C. Delivered two invited talks at the Dept. of Archaeology, University of Calgary in December 1981.
- Judge, W. James Chairman, Interagency Archaeological Committee; Advisory Board, BLM Study of Prehistoric Roadways; Advisory KGGM TV segment on San Juan Basin; invited participant -- Resources Panel Discussion, American Forestry Association Annual Meeting.
- Ortiz, Alfonso National Nominator, John and Catherine MacArthur Fellowship Program; member, Selection Panel, Mina Shaughnessy Fellowship Program, Fund for the Improvement of Postsecondary Education, Washington; Member, Selection Committee, NLCHAI Fellowships Program, Newberry Library; Member, National Committee of the One Hundred, Museum of the American Indian, New York (since 1977); Member, National Advisory Council, Institute for the American West, Sun Valley.

Other professional activities (continued)

- Ortiz (continued) Center for the Arts and Humanities, Idaho (since 1975); Member, International Advisory Council, Cultural Survival, Inc., Cambridge, Massachusetts; Member, Callaboratori Internazionali, Laboratorio di Scienze dell'uomo, Rome, Italy; Member (continuing) of editorial boards of five journals published in English. Lectures: Arthur G. Pettit Memorial Lecturer, Colorado College, January; Keynoter, New Directions in American Indian Art Conference, Arizona State University, April; Keynoter, American Indian and Alaska Native Nurses Association National Conference; Albuquerque, April; Harvard Alumni College, Santa Fe, May; Western Montana College touring group, Santa Fe, June; Archaeological Foundation of America Board of Directors, September; New Mexico State Health and Social Services Division Leaders' Weekend Seminar, October.
- Rhine, J. Stanley Series of exhibits on Osteology in UNM Medical School Library; Lecture on Forensic Anthropology to Soc/Anthro Dept, UTEP, El Paso, October 23, 1980; Public lecturer (and coverage with interviews on 3 TV stations) on role of anthropology in New Mexico Prison analysis; consultations by law enforcement authorities in Colorado, Nevada and Pennsylvania for facial reproductions; participant and arranger of advanced session of "Medicolegal Investigation of Death," UNM Med School, Aug. 3-8, 1980.
- Sabloff, Jeremy A. Associate Editor, Journal of Anthropological Research; member of the editorial boards of several archaeological series; presented an invited lecture at the University of Southern California.
- Salvador, Mari Lyn C. Fiestas Acoreanes: Portuguese religious celebrations in California and the Azores. Traveling exhibition Oakland Museum, Holy Ghost Church, Gustine, California, Frederick S. Wight Art Gallery, UCLA. Fiestas of San Juan Nuevo: Ceremonial Art from Michoacan. Maxwell Museum of Anthropology. Consultant, NEH, funding panel.
- Sebring, James M. Numerous papers reviewed for Journal of Anthropological Research.
- Spuhler, James N. Editorial Board, Journal of Anthropological Research, and of Anthropological Linguistics.
- Straus, Lawrence G. Reviewed book proposals and articles for several publishers and journals. Gave public lectures to the Anthropology Department to civic groups.

Other professional activities (continued)

- Weigle, Mary Martha Talk on the Penitentes, Albuquerque Rotary Club, 26 February 1981; talk on the Penitentes, New Mexico Genealogical Society, Albuquerque, 15 August 1981; "Women in Folklore/Mythology," talk to the Maxwell Museum Association, Albuquerque, 18 March 1981.
- Wessman, James W. Invited participant in the series, "Relaciones Familiares en una Sociedad en Crisis," sponsored by the Sistema para el Desarrollo Integral de la Familia, in Zapopan, Jalisco, Mexico, sponsored and presented at Latin American Institute, UNM.

5. Non-teaching University service

- Alvarado, Anita L. Professional Advisory Committee, Children's Psychiatric Institute, UNM School of Medicine; Advisory Board, Women Studies Program; Advisory Board, Native American Studies.
- Barrett, Richard A. Coordinator of the Harvey lectureship program for the Department of Anthropology, Spring-Fall 1981.
- Binford, Lewis R. Member Museum Association, Maxwell Museum; Chair, A & S Tenure Committee; Chair, Board of Archaeologists.
- Bock, Philip K. Member of tenure committee for Prof. Rushforth.
- Brody, J. J. Director, Maxwell Museum; Board member, Maxwell Museum Association; Member, Advisory Committee of Fine Arts Museum, UNM; Committee on Gifts, UNM; Fund raising/UNM Foundation.
- Campbell, John M. Chairman, 3 doctoral committees, produced one Ph.D.
- Chisholm, James S. Member Anthropology Graduate Committee.
- Froehlich, Jeffery W. Undergraduate Anthropology Committee Chair.
- Gorbet, Larry P. Faculty senate, Senate Graduate Committee, Sign Language Interpreting Program Advisory Committee, Arts and Sciences Graduate Committee, Linguistics M.A. Examination Committee, Linguistics Policy Committee, Anthropology Graduate Committee (Chair), Tenure & Promotion Review Committee for S. Rushforth.
- Judge, W. James Departmental Board of Archaeologists; normal graduate committee load; manuscript review for Journal of Anthropological Research.
- Ortiz, Alfonso Chairman, Faculty Advisor Council, Native American Studies Program; Chairman of one and member of another tenure/promotion committee; member of three dissertation committees, seven other grad committees in four departments; advise foreign scholars.
- Rhine, J. Stanley Continued as Associate Curator of Physical Anthropology, Maxwell Museum; continued as Anthropology consultant to the Office of the Medical Investigator, State of New Mexico; member of Anthropology Department graduate committee; chairman of promotion committee for Dr. Froehlich.
- Rushforth, E. Scott Member, Undergraduate committee, Anthropology Department; member, Research Allocations Committee; member, Advisory Board, Native American Studies Program.

Non-teaching University service (continued)

- Sabloff, Jeremy A. Member of the University Library Committee; completed a term as member of the Maxwell Museum Association Board of Directors; member of the Dean's Advisory Committee on Latin American Studies; participated in the University's Project Roswell (school relations)
- Salvador, Mari Lyn UNM Press Committee, Latin American Institute.
- Schwerin, Karl H. Member, Academic Freedom & Tenure committee; member, Research Policy Committee; Chair, Subcommittee on Overhead and Budget Review; Departmental advisor for graduate students in ethnology; member departmental graduate committee.
- Sebring, James M. Coordinator and processor of applicants for one-year ethnology position
- Spuhler, James N. Chairman, Asian Studies Committee.
- Straus, Lawrence G. Faculty Senate, Research Policy Committee, Research Recognition Subcommittee, Ad Hoc Sabbatical Pay Policy Subcommittee (all through May 1981), Anthropology Department undergraduate committee, a Sabbatical Committee, Library Liaison, French and Spanish Examiner, Board of Archaeologists, member of several M.A. and Ph.D. committees, UNM "Senior Day", Anthropology representative.
- Weigle, Mary Martha UNM Press Committee, August
- Wessman, James W. Member of two Latin American Institute Committees: Publications Subcommittee and Central America/Caribbean Exchanges Subcommittee.

6. Public Service

- Alvarado, Anita L. Education Committee, Rio Grande Kennel Club.
- Bock, Philip K. Board of Directors, Experiment in Jewish Learning (Lecture Series) resigned in August '81; Board of Vortex Theatre (acting president March/April).
- Brody, J. J. N. M. Cactus and Succulent Society.
- Gorbet, Larry P. Trout Unlimited Rio Grande Chapter Board of Directors.
- Judge, W. James Member, Board of Trustees, Archaeological Society of New Mexico; Member, Board of Directors, San Juan County Museum Association.
- Ortiz, Alfonso President (continuing since 1973), Association on American Indian Affairs, Inc., New York; Member, National Commission on the Higher Education of Minorities; 1979-82 (service extended to April 1, 1982); member, Board of Directors, Millicent Rogers Museum, Taos, 1981-83; consultant, San Juan Pueblo tribal lands research, San Juan Pueblo Council, 1981- (continuing).
- Salvador, Mari Lyn Manzano Day School consultant.
- Schwerin, Karl H. March 17 - spoke to Rio Rancho Rotary Club, "Winds Across the Atlantic"; June 17 - spoke to New Mexico Exchange Club, "Cacti of New Mexico"; Sept. 22 - spoke to Petal Pushers Garden Club, "The Origins of Agriculture".
- Sebring, James M. Judge, Science Fair, Our Lady of Fatime School; Judge, Social Sciences Division, N. M. Northwest Regional Science Fair.
- Straus, Lawrence G. Public lectures to civic groups.
- Weigle, Mary Martha Director, Santa Fe Historical Society, until resignation, June 1981; Director, Spanish Colonial Arts Society.

The Report of the Maxwell Museum

July 1, 1981 - June 30, 1982

J. J. Brody, Director

1981-82 was an especially busy year for the Maxwell Museum. Significant accomplishments were made by most of its divisions and some significant problems remained to be solved.

I. SIGNIFICANT DEVELOPMENTS DURING THE ACADEMIC YEAR 1981-82.

A. Administration:

- 1) A balance was generally maintained among public programs, instructional programs, and collection management activities. Both short-range and long-range objectives of the museum were reviewed and revised by the staff to meet current and projected needs.
- 2) Assistant Director Linda Bahm developed a new budget control format designed to manage annual expenditure levels of well over \$300,000 derived from eight different funding sources.
- 3) Including volunteer and part-time employees, the museum staff now numbers about 70 people. Assistant Director Linda Bahm refined internal personnel and task scheduling procedures to maximize productivity, while maintaining an atmosphere conducive to creative and cooperative staff relationships.
- 4) Steps toward establishing formal advisory procedures with the Dept. of Anthropology began with the organization of a standing departmental/museum committee on museum acquisitions. This committee meets on a regular basis and has already formulated significant collections and acquisition policies for the museum.

B. Collections Management:

- 1) Renovation and reorganization of the warehouse on North Campus

relieved congestion there and permitted the controlled and orderly absorption of over 400 boxes of archaeological materials from six different sources. Many of these boxes had been stored by research archaeologists in the Anthropology Annex building for many years. In all, more than 1000 boxes were shelved in the warehouse and a new computer inventory of objects and their locations in the warehouse was made.

- 2) 575 newly acquired artifacts, excluding field accessions, were catalogued by Collections Curator Marian Rodee and her staff.
- 3) A \$23,386 pottery conservation project funded by NSF was completed. Several hundred damaged vessels were stabilized or restored by Project Conservator Sophie Collaros and eight volunteers under this program. A thorough inventory and examination of all the museum's ceramics was completed with condition and conservation measures for each recorded.
- 4) Conversion of the computer files to a more efficient SELGEM software system (the new Berkeley program) was completed under the management of Asst. Collections Curator Krisztina Kosse. The backlog of catalogue information to be entered into the computer was substantially reduced. Hiring of our own data entry person was an important step forward toward reducing the backlog and establishing control over and efficient use of our computer input capabilities. 32,000 records still need to be processed in order to be retrievable from the museum's computerized collections files.

C. Instruction, Public Programs, and Exhibitions:

- 1) Museum exhibits designed to be used in classroom instruction

included the major 10-month exhibition "Fiestas of San Juan Nuevo" which opened on November 15, 1981. Organized and installed with significant support from the National Endowment for the Humanities, that exhibition was used as a teaching resource for a number of upper and lower division courses in anthropology. It was used as well by many other UNM classes including education, Latin American Studies, Instructional Media Service and Latin American Institute and also received heavy use by the Albuquerque Public Schools. At the request of the faculty about ten smaller exhibits were also installed to support UNM classroom teaching.

- 2) Development of an exhibit master plan to more closely integrate museum instructional activities with those of the Dept. of Anthropology was begun by Chief Curator Mari Lyn Salvador.
- 3) The osteological laboratories under the direction of Dr. Stanley Rhine were, as usual, in constant use as a classroom resource.
- 4) Thirty-two regular UNM classes met with their instructors in our artifact storage areas to use the collection for teaching purposes. One Community College course also met regularly in those collection storage areas for instruction. About forty researchers, including a number of our graduate students, made formal use of various parts of our collections and more than 200 other users utilized the collections for minor research activities. Several faculty regularly borrowed materials from collections to be taken to their classes for teaching purposes.
- 5) A public lecture space was established within the museum galleries

for use mainly during evening hours. Fourteen formal public lectures were held there under sponsorship of the Dept. of Anthropology, the Maxwell Museum Association and the Maxwell Museum Education Division. The average audience size for these was over 100 and audiences included UNM students, faculty, and community members.

- 6) Mechanisms for more closely integrating museum instructional programs with public programs sponsored by the Dept. of Anthropology and the Maxwell Museum Association were developed by our new Education Curator Marsha Bol.
- 7) 12,839 students were served in the schools and at the museum by 33 well-trained volunteer docents under the leadership of Assistant Education Curator Margaret Jumonville.
- 7) The Exhibition Division was reorganized under Exhibits Curator Vincent Yannie. In addition to the other exhibit activities described above, that division also developed and installed about ten smaller exhibitions for use by the general public and by our classes.
- 8) The San Juan Nuevo exhibition was opened in November with considerable ceremony. It was received with enthusiasm and continues to draw public and scholarly interest. A traveling exhibition ancillary to it was designed and built by our staff for distribution throughout the Southwest by the Museum of New Mexico. That exhibition marks one of the more important cooperative endeavors between our two institutions.
- 9) Finally, the Gift Shop under the creative management of Sally Nusbaum had a good year despite the economic downturn.

II. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

A. Administration:

- 1) Systems for fully formalizing advisory procedures from the Dept. of Anthropology should be developed so that the museum and its programs can be more closely integrated with that of the department.
- 2) On the same score, the advisory relationship with Maxwell Museum Association should be refined in order to support activities of that organization.
- 3) Careful monitoring of fiscal and staff management procedures should continue.

B. Collections Management:

- 1) Renovation of the warehouse space now leaves the museum with about 2-4 years of growth capacity in the warehouse. A more precise prediction is impossible because we have no control over the generation of warehouse materials by the field school and the Office of Contract Archaeology. We do know pressure on the warehouse will increase as the National Park Service Chaco Project winds down. Materials stored at the Southwest Cultural Resources Center (Chaco Center) will be transferred to our care during the course of 1982-3. We can anticipate a pressing need for new warehouse space by about 1985.
- 2) The osteological laboratories and teaching spaces are a physical disgrace. They are overcrowded, badly ventilated, and hardly suited to their heavy use as either a teaching area or laboratory. Many of the functions that take place there can be transferred to the space below the Chaco Center that is now used by the NPS as a warehouse and research area. As noted above, that space may become available to us during 1982-3 and should be assigned

to the osteological laboratories and collections.

- 3) Renovation of the Anthropology Dept. Annex closed down the laboratory space used by Dr. Rhine for preparing his specimens. No replacement for that laboratory has been found and Dr. Rhine's programs in forensic anthropology and in the collecting of documented specimens are now suspended. Unless a laboratory is found both of those programs will be forced to terminate.
- 4) A conservation program designed to stabilize and preserve our wooden specimens is needed. Investigation of funding sources for such a program will begin in 1982-3.
- 5) Limited renovations of the main collections storage area designed to improve efficiency and storage capacity should begin during 1982-3.

C. Instruction, Public Programs, and Exhibitions:

- 1) Support for graduate students in museum practices should be inaugurated. Ideally, research assistantships and/or teaching assistantships should be provided on a competitive basis to graduate students in museum practices.
- 2) Renovation of the newly established public program spaces should be continued and refined. Of particular importance is carpeting now needed to cover the remaining areas of linoleum tile in that public space to improve safety, comfort and acoustics.
- 3) For public safety, smoke detectors should be installed in the public galleries. At present there is no automatic fire protection system in the galleries, endangering both visitors and valuable artifacts.
- 4) NEH support for the forthcoming "Chaco Phenomenon" traveling exhibition should help make that an important teaching exhibition

as well as an important public interpretation event. The exhibition is scheduled to open early in 1983 and will continue until the end of that year.

- 5) Further development of the exhibition master plan during 1982-83 should culminate with preparation late in that fiscal year of one or several grant proposals to assist us in implementing the plan.

III. APPOINTMENTS TO STAFF.

Marsha Bol February 8, 1982

IV. SEPARATIONS FROM STAFF.

Ann Skye October 6, 1981

V. PUBLICATIONS.

Marian Rodee Southwestern Weaving; "Navajo Ceremonial Pattern Weaving", Navajo Religion and Culture: Selected Views; brochure for traveling exhibit for Virginia Museum entitled "One Hundred Years of Navajo Rugs: Selections from the Maxwell Museum".

Mari Lyn Salvador "Food for the Holy Ghost" in Alessandro Falassi Festivals, University of California Press.

Stanley Rhine "Perpendicular Forensic Archaeology", "Forensic Anthropology in New Mexico", "Facial Reproduction in Court" in A Casebook in Forensic Anthropology, Ted Rathbun and Jane Buikstra, eds. C.C. Thomas.

VI. OUTSIDE PROFESSIONAL ACTIVITIES.

Marian Rodee Lectured in Chicago at seminar "A Collector's Guide to Navajo Weaving."
Lectured in Santa Fe for Shared Horizons II "Early 20th Century Navajo Weaving."
Assorted lectures for UNM anthropology, art and women's studies courses.
Taught Art History 280, Survey of North American Indian Art.

Krisztina Kosse Attended New Mexico Association of Museum meeting.
Gave a talk to Larry Straus' class.

Stanley Rhine Presented papers at the American Academy of Forensic Sciences, "Anthropological Analyses of Burned Bodies" and "Destruction of Bodies by Fire."
Presented a paper at a symposium on forensics at the American Association of Physical Anthropologists.
Presented a paper to the New Mexico Archaeological Society Meetings, "Analysis of Human Skeletal Remains from Archaeological Sites".
OMI's Forensic Anthropologist.
Organized Forensic Anthropologists meeting in Cedar City, Utah.

Mari Lyn Salvador UNM Press Committee
Latin-American Institute - Faculty Conciliate
Maxwell Museum Association - Bd. of Directors
NEH Funding panel
Grant reviewer for NSF and NEH
Project Consultant for Greek-American Exhibition
Project Consultant for Armenian-American Exhibition

The Report of the Department of Biology

July 1, 1981 - June 30, 1982

James S. Findley, Chairman

I. General Department Information.

A. Achievements during the academic year. During this time period James Gosz served as Acting Chairman during the summer session and during the fall semester (1981) while Findley was on sabbatical leave. Findley announced his resignation as Chairman effective at the end of semester II, 1982, and the process of selection of a new chairperson proceeded during the year, concluding with the selection of Professor Donald W. Duszynski. Duszynski's chairmanship commenced with the summer session, 1982.

In this report period the newly approved requirements for the Biology Major appeared in the Bulletin and took effect. These changed requirements include the same number of hours (37) as the previous set, but differ in that the student may select a microbiological, a botanical, or a zoological tract after the core requirements are fulfilled.

The basic emphasis of the department at the undergraduate level remains the teaching of basic biology as a liberal art, and the provision of a broad and high quality selection of courses to serve the needs of our undergraduate students.

At the graduate level we continue our primary emphasis on ecology and evolutionary biology, with lesser but important emphasis on cellular biology. This strategy is paying off in increasing recognition of a vigorous and distinguished faculty in the form of research support and the attraction of high quality graduate applicants.

B. Plans and recommendations for the future. General recommendations for the future include reorganization of staff structure at least to the extent of upgrading the key office personnel.

Most importantly we see the need for increased faculty size. No other comparable institution in our area has so few biologists.

C. Appointments to staff. Dr. Troy L. Best was added to the ranks of Adjunct Professors, effective Semester I, 1982-83.

D. Separations from Staff. Dr. Douglas Caldwell left the department for employment elsewhere effective SS, 1982.

E. Sponsored research or other projects. During the reporting period eleven faculty (38%) prepared and submitted research proposals to outside agencies. At this writing 5 of those have been funded for a total of \$328,851.

During the same period four faculty prepared and submitted applications for renewals of previously awarded grants. All of these were successful for a total of \$221,108.

The total of the new awards to the Department during the reporting period was \$549,959, and involved 8, or 28%, of the faculty. Currently there are 48 outside contracts in force worth \$2,021,767.

II. Composite of information requested on individual biographical supplements.

1. Advanced Study

None

2. Sabbaticals and Leaves

Barton, Larry L. January 1981. Attended and served as external examiner on final doctoral exam of Gail Harrison in Dept. of Biology at Calgary, Alberta.

Crawford, Clifford S. June 1981. Namib Desert Research Station, South West Africa. Trip for research, observation, and consulting.

Duszynski, Donald W. (A) March 10-20: Took Advanced Marine Biology class (Biol. 496/596) to Discovery Bay Marine Laboratory, Jamaica, West Indies. This included 25 students and faculty from UNM and the University of Arizona. (B) May 21-July 19: Accompanied Dr. T.L. Yates and three graduate students on a scientific collecting trip to Japan. During their nine weeks in the field they collected nearly 500 specimens of Japanese mammals. Duszynski's task in the overall project was to help trap mammals and to collect their endoparasites. (C) October 10-16: Took the Marine Invertebrate Laboratory class (Biol. 370L) to Puerto Peñasco, Mexico (18 students, faculty and support staff).

Findley, James. Fall 1981. Field work on the butterfly fish community structure in French Polynesia.

Gosz, James R. (A) Stockholm, Sweden; (B) Sydney, Australia; (C) Rotorua, New Zealand.

Johnson, Gordon V. Fall 1981. (A) Conducted research at UNM on secretions of plant roots in response to iron deficiency. (B) Consulted with plant biologist at University of California at Los Angeles, Davis and Riverside and also at Colorado State University and the US Department of Agriculture's Salinity Laboratory at Riverside, CA.

Kidd, David E. (A) Visiting scholar 1980-81, Science Education Center, University of Texas, Austin. (B) Travel-Padre Island; Santa Ana Bird Refuge, Gunnison Colorado Santa Ana, Calif.; Champaign, Illinois; Memphis, Tenn.; various state and historical sites in Texas; Carlsbad National Park; Las Vegas, Nevada; Denver, Colorado.

Kogoma, Tokio. Sabbatical (1981-1982) The Dept. of Microbiology, The Polytechnical University, Copenhagen, Denmark. Travel to Dept. of Microbiol., Texas Tech Univ. School of Medicine (July). Travel to Dept. of Biology, Univ. of Calif. San Diego (November).

Ligon, J. David Summer 1981. NSF sponsored fieldwork in Kenya.

Ligon, Sandra H. Summer 1981. NSF sponsored fieldwork in Kenya

Martin, William C. (A) Spring 1981. Sabbatical leave. (B) Spring and summer 1981. Botanical studies at the Los Angeles Museum of Natural History.

2. Sabbaticals and Leaves (continued)

Trujillo, John L. National Institutes of Health Site Visiting Team Peer Review Scientist to Florida State University Miami, FL.

Wiens, John A. Travel associated with invited seminars, meetings, and research at Utah State University, Logan (January); Colorado State University, Fort Collins (December); University of Wyoming, Laramie (December).

3. New scholastic honors, fellowships, etc.

Duszynski, Donald W. Listed in Who's Who In Science and Technology (3rd ed.); Appointed Visiting Guest Scholar, Kyoto University, Kyoto, Japan, Summer 1981.

Kidd, David E. (A) Recognition for being state director of the National Association of Biology Teachers Outstanding Biology Teacher Award Program. (B) Invited lecturer for the National Chautaugua Short Course Program sponsored by the American Association for the Advancement of Science and the National Science Foundation. (C) Invited speaker - keynote address "What is Groundwater," Sixth Annual Water Workshop, Western State College, Gunnison.

Martin, William C. Recipient of the Leopold Conservation Award, presented by the Nature Conservancy at their annual meeting October 1981.

Riedesel, Marvin L. UNM Presidential Recognition Award.

Thornhill, Randy. Appointed to Univ. Texas faculty for 10 days--gave series of lectures in their Distinguished Ecologist Lecture Series.

Yates, Terry L. Appointed Visiting Guest Scholar, Kyoto University, Kyoto, Japan, Summer 1981.

4. Publications

Altenbach, J. Scott. 1981. Functional Anatomy of the Primary Downstroke Muscles of the Pallid Bat, Antrozous pallidus, J. Mamm., 62(4):795-800. (with John Hermanson).

1981. Organochlorine residues in young mexican free-tailed bats from several roosts. Amer. Midland Naturalist. 105(2):249-257 (with K.N. Geluso and Don E. Wilson).

1981. Principles of Biology, 2nd ed., Shannon Publishing Co., Lubbock, TX. 122 pp.

Baca, Oswald G, A.S. Aragon, E.T. Akporiaye, I.L. Martinez, and N.L. Warner. 1981. Interaction of Coxiella burnetii with macrophage-like tumor cell lines. In W. D. Burgdorfer and R. Anacker, ed., Rickettsial and Rickettsial Diseases. Academic Press, N.Y.

Baca, O.G., E.T. Akporiaye, A.S. Aragon, I.L. Martinez, M.V. Robles, and N.L. Warner. 1981. Fate of phase I and phase II Coxiella burnetii in several macrophage-like tumor cell lines. Infection and Immunity 33:258-266.

4. Publications (continued)

Barton, Larry L. 1981. Reduction of circulating granulocytes induced by type 1 pneumococcal cell walls in New Zealand white rabbits. *Infection and Immunity*, July, 33:1-6, (with S.E. Goldblum and W. Reed).

1981. Clustering of phenotypic variables and construction of an identification scheme for human isolates of *Haemophilus*. *Journal of Infection*. 3:59-70 (with L.A. Johnson and E.W. Rybka).

1981. Soluble humic complexes and sulfate uptake by *Aspergillus niger*. *Soil Biology and Biochemistry*, 13:435-437 (with J.J. Ruocco).

1981. Significance of chemolithotrophy and carbon dioxide fixation in the sulfate-reducing bacteria. In, *Microbial Growth on C-1 Compounds* H. Dalton ed. Heyden Press, Philadelphia. p. 83-91.

1981. A specific transport system for Fe^{+2} in bacteria. *Journal of Plant Nutrition*, accepted and in press (with H. Krivan and D. Klemm).

Cates, Rex G. 1981. Host plant predictability and the feeding patterns of monophagous, oligophagous, and polyphagous insect herbivores. *Oecologia* 48:319-326.

1981. Progress reports: The identification of dissolved organic chemicals released in wildland streams subjected to varying levels of recreational. Forest Service Plant community structure, plant chemical defenses, and insect population dynamics, NSF.

Crawford, Clifford S. 1981. *Biology of Desert Invertebrates*. Springer-Verlag, Berlin, Heidelberg, New York. 314 p.

Duszynski, Donald W. 1981. The Coccidia of quail in the United States. *J. Wildl. Dis.* 17:371-379 (and R.J. Gutierrez).

1981. Fine structure of the oocyst wall and excystation of *Eimeria procyonis* from the American racoon (*Procyon lotor*). *Z. Parasitenkd.* 65:131-136 (and C.A. Speer, B. Chobotar and A.A. Marchiondo).

1981. Who are the Coccidia and do we really know where they live? Proc. 16th Ann. Coccidiosis Conf. (D.W. Duszynski ed.). *J. Protozool.* 28:242-270.

In press. Development of *Eimeria funduli* in *Fundulus heteroclitus*. *J. Protozool.*

In press. Intestinal absorption of B-methyl-D-glucoside in rats infected with *Eimeria nieschulzi*. *J. Parasit.*

Ewing, Evelyn. 1981. Mutation-selection balance in multi-locus systems. I. Duplicate gene action. *Genetics* 98:409-415.

In press. The effect of frequency-dependent selection in variable environments: a haploid model.

4. Publications (continued)

Gosz, James R. 1981. Nitrogen cycling in coniferous ecosystems. *Ecol. Bull.* (Stockholm) 33:405-426.

1981. Organic nitrogen interference with automated ammonium analyses (with White). *Can. J. For. Res.* 11:739-741.

1981. Nitrogen cycling and loss following forest perturbation. (with Vitousek, Melillo, Frier, Reiners) In: Barrett, G.W. and R. Rosenberg (eds). *Stress effects on natural ecosystems*. John Wiley & Sons, New York.

In press. Forest recreational use, water and aquatic life: an assessment of research results for land-use managers in the southern Rockies and high plains. (with Potter, Carlson). *Eisenhower Consortium Bull.*

In press. Interactions of biogeochemical cycles in forest ecosystems (with Melillo). *Ecol. Bull.* (Stockholm) 34:

In press. A comparative analysis of nitrification and nitrate mobility in forest ecosystems (with Vitousek, Reiners, Grier, Melillo). *Ecol. Monogr.* 52:

In press. Biological factors influencing nutrient supply in forest soils. In: Bowen, G.D. and Nambiar, E.K.S. (eds). *Nutrition of Forest Trees in Plantations*. Academic Press, London.

In press. Energy flow in the system. In: Chapter on Forest Ecology, *Forestry Handbook*, Society of America Foresters.

In press. Research Assessment and Research Needs for non-point source pollution of water by recreation. *Eisenhower Consortium Bull.*

Johnson, Gordon V. 1981. Soil and vegetation studies at the Los Medanos site, pp. 5.1-5.14. In J.S. Hart (ed.). *Ecosystem studies at the Los Medanos site Eddy County, New Mexico (Vol II)*, U.S. Dept. of Energy, Albuquerque.

Kerkof, Paul R. 1981. Regulation by TSH of Thyroid Peroxidase in Ovine Thyroid Cells in Culture. Sandra L. Wisler, Anthony M. Nieto, Stephanie A. Valverde, and Paul R. Kerkof. *Journal of Cell Biology* 91:225a.

1981. Biochemical Actions of Hormones, Vol. VII. Book Review by Paul R. Kerkof. Published in General and Comparative Endocrinology 45:412-413.

In press. Preparation of Primary Cultures of Ovine Thyroid Gland Cells. Journal of Tissue Culture Methods.

Kidd, David E. 1981. Faith, Field Trips and Drinking Water. *The Texas Science Teacher*, 10(2):6-11.

4. Publications (continued)

Kidd, David E. (cont)

In press. Selenium Kidney/Liver Ratios in Rock Squirrel Populations from Grassland and Pinyon-Juniper Ecosystems. Ecotoxicology and Environmental Safety, (with Chester D. Rail).

1981. Reservoir Influences on Salinity and Nutrient Fluxes in the Arid Colorado River Basin. Proceedings of the Symposium on Surface Water Impoundments ASCE/June 2-5, 1980/Minneapolis, Minnesota (with S.P. Gloss, R.C. Reynolds, Jr., L.M. Mayer).

Kogoma, Tokio. In press. Alternative DNA Initiation Pathway in E. coli. In: Structure and DNA-Protein Interactions of Replication Origins (Ray, D.S., Fox, C.F., eds.) Academic Press, New York (with T.A. Torrey, N.L. Subia, and G.G. Pickett).

1981. Absence of F Plasmid Replication During Stable DNA Replication of the Chromosome in an Sdr^C Mutant of E. coli K-12. J. of Supramolecular Structure and cellular Biochemistry, suppl. 5, 339 (abstract) (with N.L. Subia, T.A. Torrey, and T. Kogoma).

1981. Suppressor Mutations (rin) that Specifically Suppress the recA⁺ Dependence of Stable DNA Replication in Escherichia coli K-12. (ibid) (with T.A. Torrey and T. Kogoma).

1981. Continued DNA Replication in the Presence of Chloramphenical in a dnaA rpoB Double Mutant of E. coli. (ibid) (with T.A. Torrey and T. Atlung).

Ligon, J. David. 1980. Communal Breeding in Birds: An assessment of Kinship Theory. In Acta XVII Congressus Internationalis Ornithologicus. Berlin (West) Germany. pp. 857-861. (Not previously reported, actually came out in 1981).

1981. Review of H.W. Power's "The Foraging Behavior of Mountain Bluebirds: With Emphasis on Sexual Foraging Differences". In Animal Behaviour 29:968-969.

1981. Review of T. Angell's "Ravens, Crows, Magpies, and Jays". In Auk 98, in press.

1981. Sociobiology is for the Birds. Invited Commentary 1981. Auk 98:409-412.

The Cooperative Social System of the Green Woodhoopoe. Invited article submitted to Scientific American.

Ligon, Sandra H. 1981. Principles of Biology, 2nd ed., Shannon Publishing Co., Lubbock, TX. 122 pp. (with S. Altenbach, E. Toolson, L. Berger, and J. Hastings).

Martin, William C. Analysis of the flora of the Canadian River Canyon, Mills Canyon section. A report. 79 pp. U.S. Forest Service, Nov. 15, 1981.

4. Publications (continued)

Martin, William C. (cont)

Los Medanos, WIPP Study, Floristics. A report. 116 pp. Westinghouse Corp. Sept. 30, 1981.

Molles, Manuel C. Jr. In Press. Trichopteran communities of streams associated with aspen and conifer forests: long-term structural change. Ecology.

Potter, Loren D. In press. Fire ecology and Bandelier National Monument. In LaMesa Fire Symposium Oct. 6-7, 1981. Southwest Fire Council, National Park Service, and Los Alamos National Laboratory (with T.S. Foxx).

In press. Post-fire recovery and mortality of the ponderosa pine forest after the LaMesa fire. In LaMesa Fire Symposium, Oct. 6-7, 1981. Southwest Fire Council, National Park Service, and Los Alamos National Laboratory. (31 p. ms.) (with T.S. Foxx).

In press. Forest recreational use, water, and aquatic life. Eisenhower Consortium Bulletin, (reviewed, corrected, ready for publication but delayed by current moratorium on publication placed on Rocky Mtn. Forest & Range Exp. Stn., Fort Collins, Colo.) (with J.R. Gosz and C. Carlson).

In press. Natural regeneration of ponderosa pine as related to fire history and land use, DOE and Los Alamos National Laboratory Bulletin (with T. Foxx and F. Barnes).

Riedesel, Marvin L. 1981. Pulmonary ventilation & cardiac activity in hibernating and arousing golden-mantled ground squirrels (Spermophilus lateralis). Cryobiology.

1981. A survey of menstrual function in athletes. Medicine & Science In Sports & Exercise (with K.A. Carlberg, M.T. Buckman, and G.T. Peake).

Oxygen Transport to Human Tissues. J. A. Leopky and M. L. Riedesel, eds. Elsevier North Holland, Inc. Publ. New York. galley proofs returned 12/81.

Taylor, Frederick W. 1981. Ecology and evolution of physiological time in insects. Amer. Nat. 117:1-23.

In press. Sensitivity of physiological time to variation in its parameters. Environ. Entomol.

Toolson, Eric C. 1981. Principles of Biology, 2nd ed., Shannon Publishing Co., Lubbock, TX. 122 pp (with S. Altenbach, L. Berger, S. Ligon, and J. Hastings).

Thornhill, Randy. 1981. Panorpa (Mecoptera: Panorpidae) scorpionflies: systems for understanding resource-defense polygyny and alternative male reproductive efforts. Ann. Rev. Ecol. and Syst. 12:355-386.

4. Publications (continued)

Thornhill, Randy. 1981

in press. Alternative hypotheses for traits presumed to have evolved in the context of sperm competition. In *Sperm Competition and the Evolution of Animal Mating Systems*, ed. R. L. Smith and W. Heed. NY: Academic Press. 45 manuscript pages.

Vogel, Kathryn G. 1981. Glycosaminoglycan Synthesis and Composition in Human Fibroblasts During In Vitro Cellular Aging (IMR-90), *J. Cell. Physiol.* 107:271-281 (with V.F. Kendall and R.E. Sapien).

1981. Loss of Organized Fibronectin Matrix from the Surface of Aging Diploid Fibroblasts (IMR-90), *Mech. Ageing and Dvlpmt.*, 16:295-302 (with R.O. Kelley and C. Stewart).

Wiens, John A. 1981. Habitat associations and community structure of birds in shrubsteppe environments. *Ecol. Monogr.* 51:21-41 (with J.T. Rotenberry).

1981. Single-sample surveys of communities: are the revealed patterns real? *Amer. Natur.* 117:90-98.

1981. Morphological size ratios and competition in ecological communities. *Amer. Natur.* 117:592-599 (with J.T. Rotenberry).

1981. Leopard Lizard predation on *Perognathus*. *J. Herpetology* 15:249-250 (with R.D. Pietruszka and C.J. Pietruszka).

1981. Censusing and the evaluation of avian habitat occupancy. In *Estimating the numbers of terrestrial birds* (J.M. Scott and C.J. Ralph, Eds.). *Studies in Avian Biol.* 6:522-532 (with J.T. Rotenberry).

1981. Scale problems in avian censusing. In *Estimating the numbers of terrestrial birds* (J.M. Scott and C.J. Ralph, Eds.). *Studies in Avian Biol.* 6:513-521.

1981. The ecology of seabird feeding flocks in Alaska. *Auk* 98:437-456 (with W. Hoffman and D. Heinemann).

1981. On skepticism and criticism in ornithology. *Auk* 98:848-849.

1981. *The True Prairie Ecosystem*. Stroudsburg, PA, Hutchinson Ross Publ. Co. 544 pp (with P.G. Risser, E.C. Birney, H.D. Blocker, S.W. May, and W.J. Parton).

1981. A synthetic approach to Principal Component Analysis of bird/habitat relationships. *Proc. Workshop on the Use of Multivariate Statistics in Studies of Wildlife Habitat* (D.E. Capen, Ed.). USDA Forst Serv. Gen. Tech. Rept. RM-87:197-208 (with J.T. Rotenberry).

* 1981. Bird community structure in cold shrub deserts: competition or chaos? *Acta 17th Intern. Ornithol. Congr.*, Berlin: 1063-1070 (with J.T. Rotenberry).

4. Publications (continued)

Wiens, J. A. (cont)

- * 1981. Concluding comments: are bird communities real? Acta 17th Intern. Ornithol. Congr., Berlin: 1088-1089.

*Appeared during 1981, but bears a 1980 publication date.

Book Reviews:

Review of "Verbreitungsatlas der Bruvogel der Schweiz" and "Bird atlas of Natal" (Swiss Ornithological Station, and D. Cyrus and N. Robson). Auk 98:211-212.

Review of "How to write and publish a scientific paper" (R.A. Day). Auk 98:212.

Review of "The birds of The Gambia" (J. Vestergaard Jensen and J. Kirkeby). Auk 98:212.

Review of "Avifauna de Menorca" (J. Muntaner and J. Congost). Auk 98:434.

Review of "Bird finding in Tennessee" (M.L. Bierly). Auk 98:435.

Review of "The birds of Oman" (M. Gallagher and M.W. Woodcock). Auk 98:648.

Review of "Bird student. An autobiography" (G.M. Sutton). Auk 98:650-651.

Review of "Evolutionary biology of parasites" (P.W. Price). Auk 98:653.

Review of "Birds of The Gambia" (M.E.J. Gore). Auk 98:656.

Review of "Birds of Colorado's Gunnison Country" (A.S. Hyde). Auk 98:657.

Yates, Terry L. 1981. Interspecific variation in Apodemus from the northern Adriatic islands of Yugoslavia. Z. Säugetierkunde, 46:151-161 (with P.G. Dolan).

1981. Evolutionary relationships of jumping mice (Genus Zapus) of the southwestern United States. J. Mamm., 62(3):501-512 (with D.J. Hafner and K.E. Petersen).

In press. Moles of the family Talpidae, pp. 35-49. In J.A. Chapman and G.A. Feldhamer (eds.), Wild mammals of North America: Biology, management and economics (with R.J. Pedersen).

In press. In S. Anderson and J.K. Jones (eds.) Recent mammals of the world: A synopsis of families.

4. Publications (continued)Yates, Terry L. (cont)

In press. Biochemical systematics of North American moles (Insectivora: Talpidae). J. Mamm. (with I.F. Greenbaum).

5. Creative work and research in progressAltenbach, J. Scott. Ongoing research in mammalian locomotor morphology.

Baca, Oswald G. (A) National Science Foundation Grant (PCM8010633); \$149,434 (+ \$11,000 UNM matching); "Interaction of intracellular parasites with macrophage-like tumor cell lines": Sept. 1980 to February 1984. (B) Public Health Service, National Institutes of Health, MBS Grant; \$47,744; "Intracellular Parasitism and the Cell Cycle"; Sept. 1980 to August 1983.

Barton, Larry L. (A) Transport of Sulfate in Bacteria. Supported by NIH. "Mechanisms of Sulfate respiration in Bacteria" \$33,900/year 1980-1983. (B) Mechanisms of iron uptake in anaerobic bacteria. (C) Physiological characteristics of mycorrhizal fungi. Grants submitted to American Philosophical Society \$1,000, Sigma X: \$2,000 grants carry same title and "Enhanced plant tolerance to soil salinity by mycorrhizae" New Mexico Water Resources Research Institute, \$92,875 duration 2 years. Submitted in 1980-pending action. (D) Physiology of Anaerobic Bacteria Pre-grant submitted to Gas Research Institute. \$54,735 1982-1984. (E) Physiological activities of aquatic bacteria. Informal proposal submitted to U.S. Army Corp of Engineers. \$29,300 1 year duration. (F) "Multivariate statistical analysis on the impact of water-based recreation on Lake water quality" submitted to Eisenhower Consortium for Western Environmental Forest Research. \$29,600 1982-83.

Bourne, Earl W. (A) Cancer immunology, (B) Radioimmunologic detection of cancer. (C) NIH grant proposal: Cancer detection and immunotherapy using anti-beta hCG (revision).

Cates, Rex G. (A) Plant community structure, plant chemical defenses, and insect population dynamics, NSF, \$54,352. (B) Patch dynamics in shrubsteppe ecosystems: Plant chemistry, arthropod distributions, and the role of avian predators, NSF, \$165,514. (C) Effects of recreation on dissolved organics and particulate matter of aspen and conifer associated streams, Forest Service, \$57,470 (with J. Gosz and M. Molles). (D) Effect of natural plant products from Douglas-fir foliage on growth of larvae and fecundity of western spruce budworm adults, Forest Service, \$33,387. (E) Chemical enrichment of the lakes near Mt. St. Helens due to the 18 May volcanic eruption, NSF. \$7,000.

Manuscripts submitted and accepted: (A) Chemical Defenses of Plants. In Insect Biology, Howard Evans (ed.), Addison-Wesley Publishing Co., Inc., Reading, Mass. (B) Host resistance and susceptibility. In Bark Beetles in North America Conifers: Evolution and Ecology, J. Mitton and K. Sturgeon (eds.), University of Texas Press (with H. Alexander).

5. Creative work and research in progress (continued)

Cates, Rex G. (cont)

Graduate Students who graduated in 1981:

(A) Janice Kay Moore. Graduated Dec. 1981. The ecology of the acanthocephalan (Plagiorhynchus cylindraceus) in the isopod (Armadillidium vulgare) and the starling (Sturnus vulgaris).

(B) Harvey Jay Alexander. Graduated 1981. Resistance factors in Pinus ponderosa (Laws) to Dendroctonus ponderosae (Hopkins).

Crawford, Clifford S. (A) Desert millipede research: gut ultrastructure-micrococial association, reproductive effort, water balance, age structure. (B) Reviewing manuscripts for journals, also grant proposals. (C) Writing papers.

Degenhardt, William G. Continuing studies of state herpetofauna.

Duszynski, Donald W. (A) Papers submitted but not yet published:

Coccidia from kangaroo rats (Dipodomis spp.) in the western United States, Baja California and Northern Mexico (with C.S. Stout).

Eimeria from jumping mice (Zapus spp.): A new species and the coincidence with host genetic and geographic features (with G. Eastham and T. L. Yates).

(B) Papers in progress:

The Coccidia of American moles (and T. L. Yates)

The Coccidia of American shrews (with G. Eastham)

The Coccidia of American bats (with D. Reduker)

(C) Grants:

2nd year of 3 year grant. NIH-MBS. \$62,372. Studies on genetic and other factors affecting host and site specificity by coccidians (Protozoa: Eimeriidae) of small mammals.

(D) Other research in progress:

Ectoparasites of southwestern rodents (with Dr. D.B. Pence, Texas Tech University Medical School, Lubbock).

Helminths of southwestern rodents (with Dr. R. Overstreet, Gulf Coast Research Laboratory, Ocean Springs, MS).

(E) Undergraduate (Biol. 499) and Graduate (Biol. 551) research projects supervised:

Spring: 499--Bell, Cook, Rosenberg, Stuhmer
551--Eastham, Reduker

5. Creative work and research in progress (continued)

Duszynski, D. W. (cont)

Fall: 499--Frank, Mendenhall
551--Moore

(F) Graduate students who finished degrees under my direction this year:

Spring: Steve J. Upton, M.S.

Fall: Gary Eastham, M.S.
Janice Moore, Ph.D.

(G) Postdoctoral student working in my lab:

Dr. Larry C. Chavez, Ph.D. in 1981 from Department of Zoology, University of California, Berkeley.

Ewing, Evelyn. (A) 1981. Introns, exons, and the molecular clock. I. The hemoglobins. (in preparation). (B) 1981. Introns, exons, and the molecular clock. II. A reevaluation of primate data (in preparation). (C) 1981 An analysis of the dysgenesis phenomenon in relation to movable elements in Drosophila melanogaster. (in preparation). (D) Mathematical Models and Curricula in Biology, "Minority Access to Research Careers, Funded by NIH through the Department of Mathematics, 1979-1983. (E) Toward an Evolutionary Theory of Transposable Elements in Drosophila melanogaster Biomedical Research Support Grant, \$4,000, 1981-1982. (F) A Population Survey of Mobile Elements in Drosophila, Submitted to NIH, Funding pending. (G) A Population Survey of Mobile Elements in Drosophila: Towards an Evolutionary Theory, Approved, not funded, NSF. (H) Hybrid Dysgenesis and Movable Elements, Competitive RAC Grant, ready for submission. (I) On the Evolution of Duplicate Genes, In preparation for submission to NIH and NSF.

Findley, Jim. President, American Society of Mammalogists; attended June, 1981 meeting at Miami U, Oxford O.

Gosz, James R. (A) NSF, \$300,000, Evaluation of Sr isotopes for quantifying inputs 1981-83. (B) USFS, \$54,378, Impact on Recreation on forest and stream water 1981-82. (C) Prescribed fire effects on water soluble organics and nutrients \$30,000, submitted to U.S. Forest Service.

Johnson, Gordon V. (A) Westinghouse Electric Corp. Los Medanos Project--Soil and Vegetation Studies, 10/80 - 10/81, \$12,538. (B) USDA -Rocky Mountain Forest & Range Exp. Sta. Testing three osmoticums on native plants, 5/81 - 5/82, \$9,875. (C) Following proposals submitted but not yet funded:

Water Resources Research Institute. Enhanced tolerance of chili peppers and cotton to saline water by the use of appropriate mycorrhiza \$20,238 (not funded 1981) to be resubmitted (with L. Barton).

5. Creative work and research in progress (continued)

Johnson, G. V. (cont)

Eisenhower Consortium for Western Environmental Forestry Research (US Forest Service). Multivariate statistical analysis of the impact of water based recreation on lake water quality, \$29,600 (with L. Barton).

U.S. Army Corp of Engineers. Informal Proposal: Nutrient sources and control of algal blooms in Cochiti and Abiquiu reservoirs (with L. Barton).

Kerkof, Paul R. (A) Grant: National Institutes of Health, Principal Investigator: Paul R. Kerkof, Title: Action of Thyroid-Stimulating Hormone on Thyroid Gland Cells in Culture. Sept. 1980 to Sept. 1983. Total amount of Grant \$66,754.

(B) Graduate Students:

Sandra Whisler: currently a graduate student in my laboratory working on the effect of thyroid-stimulating hormone on thyroid peroxidase in thyroid cells in culture. She should complete a Masters degree in the summer of 1982.

Robyn Richards: currently a graduate student in my laboratory working on the effect of Thyroid-stimulating hormone on phospholipid synthesis and protein kinase activity in thyroid cells in culture. Robyn is in her first year of graduate study.

Minority students: Through a grant from the NIH I employ two minority students in my laboratory. These students, Anthony Nieto and Stephanie Valverde, are involved in a project to determine the In Vitro factors affecting the iodine metabolic responses of thyroid cells in culture to the addition of thyroid-stimulating hormone.

Kidd, David E. (A) Manual in progress to be published June 1, 1982 by Burgess Publishing Co., "University Skills Notebook." (B) Book in progress with William Hadley of the UNM College of Pharmacy on Environmental Toxicology and Water Pollution, Pergamon Press probable publisher. (C) New research in progress - characteristics of underprepared college students; correlation of the new College Boards Reading Comprehension Test to class performance.

Kogoma, Tokio. Research Grants: NIH (\$51,869) "DNA Replication in E. coli: Regulatory Mutants", extended to March, 1982. NSF (\$50,000) "Regulation of DNA Replication in Prokaryotes", completed in November, 1981. Minority Biomedical Support Grant (NIH) (\$11,000) "Genetic and Biochemical Studies on Stable DNA Replication in E. coli.", to August, 1982. NIH (\$500,842 proposed for 5 years) "DNA Replication in E. coli Regulatory Mutants (renewal proposal)" (pending). NSF (\$370,583 proposed for 3 years) "Regulation of DNA Replication in E. coli." (pending).

5. Creative work and research in progress (continued)

Ligon, J. David. (A) New NSF Grant: \$88,411. "Adaptive Significance of Cooperative Polyandry" (with P.B. Stacey). 1st of 3 years. (B) NSF Grant (continuing): \$108,165. "An Evolutionary and Ecological Study of Communal Breeding in Two Species of Tropical Birds. (with S.H. Ligon) 3rd of 3 years. (C) Contract Research, Westinghouse Corp. - Sandia Labs. WIPP Project. \$18,931. 1 year. (D) Invited chapter on the avian family Phoeniculidae, for The Birds of Africa. To be submitted June, 1982. (E) Invited commentary to accompany a chapter on cooperative breeding to be published in the American Ornithologists' Union centennial volume.

Ligon, Sandra H. NSF Grant \$108,165. An evolutionary and ecological study of communal breeding in two species of tropical birds. 3rd of 3 years (with J.D. Ligon).

Martin, William C. Since the publication of "A Flora of New Mexico" in 1980, my time is now available for concentration on the following:

(A) A flora of the Los Angeles Basin, sponsored by the L.A. Co. Museum. (B) A flora of the Los Medanos area, New Mexico, made possible by several grants from D.O.E., Sandia Corporation, and Westinghouse Corporation. (C) Have contracted to write a book entitled "Spring Wildflowers of New Mexico" for UNM Press. Ca. 200 pp. (D) Currently writing a book entitled "A Natural History of the Sandia Mountains" with C. Hutchins, R. Fletcher, Paul Knight. Ca. 450 pp. (E) Proposal to U.S. Forest Service for a grant (\$1,000.00) to study the flora of the Canadian River Canyon, northeast New Mexico. Grant received and study made in June/July and September, report. (F) Proposal to Westinghouse Corp. for a study of the floristics of the Los Medanos area of southwest New Mexico (\$27,551, revised to \$19,998.00). Grant received, report. (G) Proposal to the Department of the Army (\$24,523.00) for floristic studies of Fort Bliss Military Reservation). Grant not received, we were underbid. (H) Cooperating with the U.S. Forest Service in studies of threatened and endangered species of New Mexico. (I) Cooperating with the State Heritage Program (Dept. of Natural Resources) in studies of threatened and endangered species of New Mexico.

Potter, Loren D.

(A) Research Projects:

NPS, \$16,000, Plant ecology of shoreline zone of Rio Grande-Cochiti Lake, Bandelier National Monument, Nov. 1979-June 1981.

NPS, \$8,994, Vegetational type mapping and fire history of Cerro Grande Accession Bandelier National Monument, May 1979-May 1981.

DOE, \$8,834, Natural regeneration of ponderosa pine as related to fire history and land use. May 1980-May 1981.

Office Surface Mining, \$45,413, Evaluation of the vegetational reclamation of five coal strip mines in New Mexico. May 1981-Oct. 1983.

5. Creative work and research in progress (continued)

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Potter, L. D. (cont)

(B) Research reports:

Final report, Plant ecology of shoreline zone of Rio Grande-Cochiti Lake, Bandelier National Monument, SW Region, National Park Service, Santa Fe, May 1981, 73 p. + map.

Final report, Vegetational mapping and fire history of Cerro Grande Accession, Bandelier National Monument, SW Region, National Park Service, Santa Fe, May 1981, 92 p. + map.

Final report, Natural regeneration of ponderosa pine as related to land use fire history on the Parajito Plateau, Dept. of Energy, Los Alamos National Laboratory.

Riedesel, Marvin L. Grants: (A) NIH-MBS grant, Respiration during Hibernation & Hypothermia, \$18,157/year; 1980-83. (B) Air Force Office of Scientific Research (AFOSR) funded \$9,999; Oral glycerol solutions as a deterrent to dehydration during heat exposure. USAF Grant 81-NL-002; 1 year. (C) AFOSR 10/81 (submitted) Overhydration with oral glycerol solutions \$171,465/3 years.

Taylor, Frederick W. Grants: (A) NSF. "Prediction of diapause induction under conditions of changing photoperiod and temperature in the Mexican bean beetle." \$66,816 beginning 15 May 1981. (B) NSF. "Theoretical analysis of the evolution of hibernal diapause in insects." Approved but insufficient funds.

Projects in or near manuscript form: (A) Bet-hedging diapause tactics in the Mexican bean beetle. (B) A reconsideration of the importance of nighttime temperatures in hibernal diapause induction. (C) Analysis of the fitness function associated with induction of hibernal diapause. (D) A new method for estimating the sensitive stage for photoperiodic induction of diapause.

Toolson, Eric C. NSF Grant DEB81-10857, \$110,000, "Water Relations and Eipcuticular Lipid Composition in *Drosophila pseudoobscura*", November 1, 1981 - October 31, 1984.

Thornhill, Randy. (A) First draft of 600 pp. book manuscript (co-author J. Alcock). Title: Evolution and Insect Mating Systems. Manuscript is under review by Harvard Univ. Press & Princeton Univ. Press. (B) Several other manuscripts are being prepared. (C) Grant related work:

NSF Grant. The Evolution of Insect Mating Systems, \$60,000. 3 yrs.

NSF Grant. The Evolution of Sexual Differences, \$60,000. 3 yrs.

Trujillo, John L. (A) Isolation of a Recombinant DNA Clone Carrying the Gene for Rat Liver FDPase: NIH, BRSG: Total Budget \$3,500 Awarded. (B) Control of Glycolysis - Gluconeogenesis: PFK-FDPase (AM 19496) 3 yrs. \$135,670 through March 1981; Extended \$10,390 through April 1981. (C) Control of Proteolysis of Liver PFK: NIH submitted 6/1/81: Total budget \$243,000, starting date, 5/1/82.

5. Creative work and research in progress (continued)

Vogel, Kathryn G. (A) Vogel, K.G. 1981 "Extracellular, Surface and Intracellular Proteoglycans Produced by Human Embryo Lung Fibroblasts in Culture (IMR-90)." J. Biol. Chem., December. (B) "Glycosaminoglycans of the Aging Cell", Research Career Development Award, National Institute on Aging, NIH, \$30,000/year; January 1981 - December 1985.

Wiens, John A. (A) Avian responses to environmental heterogeneity in arid shrubsteppe systems (NSF, \$95,900, 1978-81). (B) Simulation modeling of marine bird population energetics, food consumption, and sensitivity to perturbation (NOAA, \$105,000, 1979-81). (C) Dynamics of small mammal populations during post-logging succession in southeast Alaska (with B. Van Horne) (U.S. Forest Service, ca. \$57,000, 1977-81). (D) Patch dynamics in shrubsteppe ecosystems: plant chemistry, arthropod distributions, and the role of avian predators (NSF, \$437,543, 1981-84). (E) Patterns of vocal variation in Sage Sparrows, Amphispiza belli (Indirectly supported by above NSF grants). (F) Constraints on optimality in a central-place foraging system (NSF application; not funded). (G) Invited contributor, Perspectives in Avian Biology (Cambridge Univ. Press). (H) Invited contributor, Patch Dynamics: Evolutionary Implications for Populations, Communities, and Ecosystems (Academic Press).

Yates, Terry L. (A) Computer mapping, division of mammals, Museum of Southwestern Biology. New Mexico Natural Resources Dept., \$4,989.00, Jan., 1981. (B) Computerized data base, Division of Mammals, Museum of Southwestern Biology. New Mexico Natural Resources Dept., \$6,095.00, May, 1981. (C) Systematic status and habitat preferences of the Mohave Ground Squirrel (Spermophilus mohavensis). California Fish and Game, \$4,660.00, June 1981 (co-principle investigator). (D) Distribution and occurrence of mammals in the Animas Mountains of Hidalgo County, New Mexico. The Victoria Corporation, \$4,695.00, May, 1981 (co-principle investigator). (E) Genic variation in New Mexico Catfish. New Mexico Game and Fish, \$2,000.00, Dec., 1981.

6. Activities in learned and professional societies

Altenbach, J. Scott. 1981. Activity of the primary downstroke musculature during flight in phyllostomatid, molossid, and vespertilionid bats. (with John Hermanson). Paper presented at 12th Bat Research Symposium, Cornell University, Ithaca, New York. October 15-17, 1981.

1981. Electromyography of downstroke muscles in bats. Paper presented at meeting of the American Society of Zoologists, Dallas, Texas, December 27-30, 1981.

Baca, Oswald G. President of the New Mexico Branch of the American Society for Microbiology.

1981. Paper presented at the Annual Meeting of the American Society for Microbiology in Dallas, Tex: "The fate of *Coxiella burnetii* in several macrophage-like tumor cell lines." Abstracts of the Meeting p. 46, Abstract No. D17.

6. Activities in learned and professional societies (continued)

Barton, Larry L. Presented "Transport of Reduced Iron" International Symposium on Iron Nutrition, August. Brigham Young University, Provo, Utah.

Presented "Sulfate Transport in Fungi" at New Mexico Academy of Sciences, October, Albuquerque, N.M.

Presented 3 papers: "Metabolism of Seleniam by Anaerobic Bacteria", "Environmental Factors which Influence Iron Uptake by Bacteria" and "Mechanisms of Fe^{2+} Transport in Escherichia coli" at New Mexico Branch of American Society for Microbiology. October, Albuquerque, N.M.

Presented 2 papers: "Transport of reduced iron in Escherichia coli" and "Kinetics of Fe^{3+} Transport in Anabaena flos-aquae" at the national meeting of American Society for Microbiology, March, Dallas, TX.

Cates, Rex G. Invited paper in an AIBS Symposium titled "Large Scale Ecology: Retrospect & Prospect." Title of paper: 'The Role of Natural Plant Products in Community & Ecosystem Processes'.

Invited paper in an AIBS Symposium titled "Plant-Animal Interactions: Herbivory & Dispersal". Title of paper: 'Antiherbivore defenses of Douglas-fir, stress physiology and insect population dynamics'.

Invitation to present seminars at Oregon State University: (1) 'Evolution of plant antiherbivore defensive systems', (2) 'Stress physiology, antiherbivore chemical defenses, and insect population dynamics'.

Invitation to Western Spruce-Budworm Meetings. Invited to participate in the organizing and writing of 2 chapters for the Budworm Compendium.

Crawford, Clifford S. Invited talk, Namib Desert Research Station, "Biology of desert millipedes," June.

Invited symposium paper, American Society of Zoologists, "Water balance and apparent oocyte resorption in desert millipedes," Dec. 28, Dallas.

Degenhardt, William G. New Mexico Herpetological Society--Parliamentarian, member of executive council.

Duszynski, Donald W. (A) Meetings attended:

2-4 April. 14th Annual Meeting, Southwestern Association of Parasitologists (SWAP), Lake Texoma, OK (with 6 students).

1-2 May. 13th Annual Meeting, Rocky Mountain Conference of Parasitologists (RMCP), Bozeman, MT.

6. Activities in learned and professional societies (continued)

Duszynski, D. W. (cont)

10-13 August. 56th Annual Meeting, American Society of Parasitologists (ASP), Montreal, Canada (with 1 student).

(B) Papers presented:

Development of Eimeria funduli in Fundulus heteroclitus at the 14th SWAP meeting and at the 13th RMCP meeting.

Assessing the in vivo susceptibility of Plasmodium falciparum to pyrimethamine-sulfadoxine by in vitro microtechnique at the 14th SWAP meeting.

Endogenous development of Eimeria funduli in Fundulus heteroclitus at the 56th ASP meeting.

(C) Offices held:

Elected, Council Member at Large, ASP. See attached letter "A".

Appointed, member Public Responsibilities Committee, ASP. See attached letter "B".

Appointed, member ad hoc Advisory Committee, Society of Protozoologists. See attached letter "C".

Assistant Editor for Advertising, The Journal of Protozoology. See attached letter "D".

Chairman, Nominating Committee RMCP.

Member, Nominating Committee SWAP.

Ewing, Evelyn. Society for the Study of Evolution, Annual Meeting, Iowa City, Iowa, June 1981.

American Microbiology Society, New Mexico Division, Albuquerque, New Mexico, September 1981.

Findley, Jim. President, American Society of Mammalogists. Attended meeting at Miami U., Oxford O. June, 1981

Gosz, James R. (A) Papers read:

International Environmental Biogeochemistry Symposium, Sweden.
Interaction of Biogeochemical Cycles Symposium, Sweden.
Congress of Botany, Australia.
Forest Research Institute, New Zealand.

(B) Seminars presented:

University of California, Berkeley.
International Congress of Ecology-Session Convener (Poland, 1982).

6. Activities in learned and professional societies (continued)

Gosz, J. R. (cont)

Ecology Study Committee, Ecol. Soc. of America 1981-.
National Sci. Foundation Panel - Ecosystem Studies Program 1981-.
National Sci. Foundation Panel - Long Term Ecol. Research 1981-.
Scientific Advisor - Coweeta Forest Long Term Ecological Research Program.

Gosz, James R.
Scientific Advisor - Konza Prairie Long Term Ecological Research Program.

Scientific Advisor - Joranada Desert Long Term Ecological Research Program.

Johnson, Gordon V. Paper presented at Southwestern and Rocky Mountain Division of American Association for the Advancement of Science, Greeley, CO: "Characterization of iron stress response of sunflower plants by high performance liquid chromatography".

Abstract published in J. Colorado-Wyoming Acad. Sci. 13:22 (1981).

Paper presented at International Symposium on Iron, Nutrition, and Interactions in Plants, Brigham Young University, Provo, UT, August, 1981: "Application of high performance liquid chromatography in the characterization of iron stress response".

Poster presented at Annual Meeting of the American Society for Microbiology, Dallas, TX, March, 1981: "Characterization of the iron transport system of Anabaena variabilis" (with E.W. Foster and L.L. Barton; L. Barten presented, meeting not attended).

Southwestern and Rocky Mountain Division of American Association for the Advancement of Science: member and secretary of Committee on Desert and Arid Zone Research; chairman of nominating committee of SWARM Division of AAAS.

Kerkof, Paul R. Attended the Ninth Annual Minority Biomedical Support Symposium in Albuquerque, N.M. April 3-6, 1981.

Attended the 1981 Meeting of the New Mexico Branch of the American Society for Microbiology, October 9-10, 1981.

Presented a paper at the 21st Annual Meeting of the American Society for Cell Biology in Anaheim, California, November 9-13, 1981. Title of paper: "Regulation by TSH of Thyroid Peroxidase in Ovine Thyroid cells in Culture.

Kidd, David E. State Director of the Outstanding Biology Teacher Award program for the National Association of Biology Teachers (NABT).

Reviewer for NABT.

Attended meeting of NABT, Las Vegas, Nevada.

6. Activities in learned and professional societies (continued)

Kidd, D. E. (cont)

Served as conference evaluator for the regional meeting in Denver of the National Association of Science Teachers.

AAAS Chautaugua Short Course Lecturer.

Kogoma, Tokio. (A) Meetings attended:

10th Annual ICN-UCLA Symposium on Molecular and Cellular Biology (March, 1981. Salt Lake City).

9th National MBS Symposium (April, 1981. Albuquerque).

ASM New Mexico Branch Meeting (October, 1981. Albuquerque).

(B) Symposium Organized and Chaired:

"The Symposium on Recombinant DNA Research: Present and Future" for ASM New Mexico Branch Meeting.

(C) Papers Presented:

"Continued DNA Replication in the Presence of Chloramphenicol in a dnaA rpoB Double Mutant of E. coli" at ICN-UCLA Symposia on Molecular and Cellular Biology (March, 1981) (with T.A. Torrey and T. Atlung).

"Suppressor Mutation (rin) that Specifically Suppresses the recA⁺ Dependence of Stable DNA Replication of E. coli." at ICN-UCLA Symposia (March, 1981) (with T.A. Torrey).

"Absence of F Plasmid Replication During Stable DNA Replication of the Chromosome in an Sdr^c Mutant of E. coli K-12" at ICN-UCLA Symposia (March, 1981) (with N.L. Subia and T.A. Torrey).

"Altered DNA Replication in Amino Acid Deprived of Chloramphenicol Treated E. coli." at Symposium on Molecular and Cellular Mechanisms of Mutagenesis." (April, 1981, Gatlinburg, TN) (with M.J. Connaughton).

"Absence of Plasmid Replication in Stable DNA Replication Mutants in Escherichia coli" at Annual MBS Symposium (April, 1981, Albuquerque) (with N.L. Subia).

"Plasmid Transformation in Escherichia coli" at Annual MBS Symposium (April, 1981, Albuquerque) (with L. Tsosie).

"Isolation and Characterization of E. coli oriC Deletion Mutants Dependent upon the Integrated F⁺ Plasmid for Replication." at ASM New Mexico Branch Meeting (October, 1981, Albuquerque) (with T.A. Torrey).

"Preliminary Studies for the Cloning of a DNA Replication Regulatory Gene, sdrA, or E. coli." at ASM New Mexico Branch Meeting (October, 1981) (with L. Tsosie and G. Pickett).

6. Activities in learned and professional societies (continued)

Kogoma, T. (cont)

"Altered DNA Replication in Chloramphenicol-treated E. coli." at ASM New Mexico Branch Meeting (October, 1981) (with M.J. Connaughton).

"Introduction to Recombinant DNA Techniques," at the Symposium on Recombinant DNA Research: Present and Future, ASM New Mexico Branch Meeting (October, 1981).

Martin, William C. Member of: New Mexico Wildflower Society; New Mexico Native Plant Society

Molles, Manuel C. Jr. Paper presented: Recovery of Stream Invertebrates from a flash flood - paper presented at Arizona-New Mexico Chapter of the American Fisheries Society, Gallup, NM, February 1981.

Potter, Loren D. President of Eisenhower Consortium for Western Environmental Forestry Research of nine western universities and U.S. Forest Service.

Attended annual meeting of Mineral Waste Stabilization Committee, July 1981.

Invited lecture on "Ecology of forest fire in ponderosa pine" to winter meeting of New Mexico Foresters.

Paper on adsorptive capacity of Mancos shale for aqueous uranium tailings contaminants, SW Div. AAAS, Apr. 1981 (with E. Louderbough).

Paper on natural regeneration of ponderosa pine, SW Div. AAAS, Apr. 1981 (with T. Foxx and F. Barnes).

Paper on Fire succession, Sandia Mountains, SW Div. AAAS, Apr. 1981.

Invited symposium paper, Ponderosa pine recovery and grass reseedling after the LaMesa Fire, Fire Symposium of SW Fire Council, US Forest Service, National Park Service, and DOE, Los Alamos, Oct. 1981.

Riedesel, Marvin L. President, UNM Chapter Sigma Xi.

Representative for the State of New Mexico to AIBS.

Exposure of golden-mantled ground squirrel (Spermophilus lateralis) to reduced O₂ and elevated CO₂ during arousal from hibernation. Abstract in Abstracts of contributed papers & posters presented at the Ninth Annual Minority Biomedical Support Symposium: 378. April 3-6, Albuquerque.

Thermoregulatory stress - a consequence of wearing the firefighter protective ensemble during exercise. Abstract. Aerospace Medical Association, May 1981.

6. Activities in learned and professional societies (continued)

Riedesel, M. L. (cont)

Pituitary - ovarian axis in oligo/amenorrheic athletes. 1981 Abstract. American Physiological Society, April 12-17, 1981, Atlanta, Georgia; Federation Proceedings 40:396.

Low body weight increases susceptibility to athletic oligo/amenorrhea. Abstract. American College of Sports Medicine, May, Medicine and Science in Sports and Exercise 13(2):105.

Overhydration of laboratory rat with glycerol solutions. Abstract. Paper presented. Fall meeting New Mexico Academy of Science.

Attended Oxygen Transport to Human Tissues, Int'l Symposium in honor of Ulrich C. Luft, M.D., Ph.D., Lovelace Medical Center, June 25-27, 1981.

Toolson, Eric C. Invited participation in American Society of Zoologists symposium on Recent Advances in Arthropod Relations; paper title: "Cuticular permeability and epicuticular lipid composition in *Drosophila pseudoobscura*: effects of temperature."

Thornhill, Randy. (Meetings: 1981. Animal Behaviour Society, Knoxville, Tenn. XVII International Ethological Conference. Oxford, England (invited). Human Sociobiology Conference. Northwestern Univ.

Trujillo, John L. Invited participation in a workshop-NIH "NMR as a Tool to Study Carbohydrate Metabolism," Fall 1981. 3 day workshop.

NSF Ad hoc Member of Grant Reviewing Committee Biophysics Section from Regulatory Biology.

Presented Research Work: At 72 nd Annual Meeting of American Society of Biological Chemists, St. Louis, MO. May 31-June 4, 1981. Purification and Properties of a PFK-Activating Factor from Pig Liver.

Vogel, Kathryn G. Meetings: 1981. (A) Proteoglycans at the Surface of Human Embryo Fibroblasts (IMR-90), Amer. Assoc. of Anatomy, April, New Orleans, LA.

(B) Proteoglycans Produced by Human Embryo Lung Fibroblasts in Culture, Amer. Soc. for Biol. Chem., June, St. Louis, MO.

(C) The Type of Proteoglycan Released by Human Fibroblasts in Culture is Altered by Growth in Low Serum Medium or on Collagen. Amer. Soc. for Cell Biol., November, Anaheim, CA (with R.E. Sapien and D.E. Pitcher). (D) Organizer and Speaker at Workshop during national meeting of Amer. Soc. for Cell Biol., November. Topic: "Molecular Components of the Extracellular Matrix - Practical Aspects".

Wiens, John A. Editor, The Auk (journal of the American Ornithologists' Union).

Member of Council and Fellow, The American Ornithologists' Union.

6. Activities in learned and professional societies (continued)

Wiens, J. A. (cont)

Council Member-At-Large, Ecological Society of America.

Invited participant, conference on "Ecological communities: conceptual issues and the evidence", Wakulla Springs, Florida (March; book in press with Princeton University Press).

Convenor, Working Group on Granivorous Birds, III International Ecological Congress Warsaw, 1981.

Attended annual meeting of American Ornithologists' Union, Edmonton, Alberta, Canada (August 1981); delivered papers on "On scientific explanation in ornithology. I. General problems" and "On scientific explanation in ornithology. II. The search for solutions" (both with J. Cracraft).

Yates, Terry L. Appointed advertising editor for the southwestern Naturalist.

Systematics and evolution of big-eared bats of the genus Myotis in the southwestern United States and Mexico.

Southwestern Ass. of Nat. annual meeting New Orleans, La.

Member national committee on systematic collections, Amer. Soc. Mammalogists.

7. Other Professional Activities

Altenbach, J. Scott. (A) Guest appearance on KNME-TV as participant in discussion of the role of zoological gardens. (B) Scientific advisor for B.L.M., Socorro office, on MGMT. of Journado del Muerto bat cave.

Baca, Oswald G. Invited Seminars: (A) University of Texas, El Paso, Dept. of Biological Sciences, Jan. 1981. Interaction of a rickettsia with macrophage-like tumor cells. (B) New Mexico State University, Biology Dept., Las Cruces, April 1981. Fate of rickettsiae within phagocytic cells. (C) Kansas University, Microbiology Dept., Lawrence, KS, May 1981. Events during rickettsial infection of macrophage-like tumor cell lines. (D) Participant in the New Mexico Academy of Science's 22nd Visiting Scientist Program (presentation at Thoreau High School, Thoreau, NM, 11-20-81). (E) Organized and presided over the American Society for Microbiology New Mexico Branch's Annual Meeting held at UNM Oct. 9-10.

Barton, Larry L. Participated in a workshop concerning water quality of Abiquiu and Cochiti Reservoirs which was hosted by U.S. Army Corp of Engineers, November, Albuquerque.

Cates, Rex G. (A) Member of Ecology and Ecosystem Advisory Panels (meets 3 times/yr). (B) Invited by University of Western Australia as the outside reviewer for Ph.D. Dissertation of R.J. Mead. Title: "The Biochemistry & Co-Evolutionary Role of Monofluoroacetic Acid in Relation to Plant-Animal Interactions in Australia."

7. Other Professional Activities (continued)

Degenhardt, William G. Reviewed: papers for J. Herpetology, Southwestern Naturalist, Herpetologica proposals for NSF Ecology Program.

Consultant: Poison Control Center, Jefferson JH Gifted Student Project, County Agent faunal problems, Action Line & Mr. Fixit.

Duszynski, Donald W. Consultant: Smithsonian Institution, photomicrography of pollen.

Gosz, James R. Talk to American Assoc. of Univ. Women, Albuquerque; Consultant for Woodward-Clyde, California.

Johnson, Gordon V. Presented seminar at UCLA: Nitrogen cycling in a Chihuahuan Desert plant community (Dec. 17, 1981).

Kerkof, Paul R. Wrote a comprehensive review of a new textbook of Cell Biology for Little Brown & Company, Publishers.

Wrote a review of Volume VII of Biochemical Actions of Hormones (Gerald Litwack, editor) for the Journal of General and Comparative Endocrinology. The review was published in Vol. 45, pp. 412-413, 1981.

Two times refereed papers submitted for publication to the Journal of Cell Biology.

Presented a seminar in the Cell Seminar Series in the Department of Biology.

Reader for the Ph.D. dissertations of Karen Karlberg and Sharon Felicetti in the Department of Biology.

Kidd, David E. Dean's committee on Teaching Resources.

Departmental representative for the university faculty lobbying group.

Invited lecturer: NSF/AAAS Chautaugua Type Short Course for college teachers on water pollution, 1981 at University of Texas, Santa Ana College, Christian Brothers College-Memphis, Parkland College - Champaign.

Kogoma, Tokio. Invited seminars:

"An Alternative DNA Initiation Pathway for Escherichia coli" (Dept. Microbiol. Texas Tech Univ. School of Medicine, July 1981).

"Recombinant DNA" (Dept. Microbiol., Texas Tech Univ. School of Medicine, July 1981).

"Regulation of DNA replication in E. coli" (Los Alamos National Laboratory, September 1981).

"An Alternative DNA Initiation Pathway in E. coli" (Dept. Biol., Univ. Calif. San Diego, November 1981).

7. Other Professional Activities (continued)

Kogoma, T. (cont)

"Genetic and Gametic Engineering: The Past, Present and Future" (panel discussion for UNM Pre-Medical Professions Club, January 1981).

Consultant: A member of the Study Section (Microbiol. Genetics Proposal Review Group) for the National Institutes of Health (February 1981, NIH, Bethesda, MD).

Ligon, J. David. Invited to present symposium paper on cooperative breeding in birds at the 18th International Ornithological Congress, Moscow, Russia, Summer 1982. (Invitation declined).

Martin, William C. Off-campus talks to local groups, wildflower society, etc. as a community service.

Research Associate, Botany Department, Los Angeles County Museum of Natural History.

Member of UNM Speakers Bureau.

Co-editing the State of New Mexico threatened and endangered species handbook.

Potter, Loren D. Consultant as expert witness on forest ecology problems.

Review of research proposals for U.S. Forest Service.

Riedesel, Marvin L. Reviewer, manuscripts for Journal of Mammalogy: 2; Physiological Zoology: 1.

Reviewer, research proposals for NIH: 1; NSF: 2.

Seminar presented, School of Aerospace Medicine, 9-14-81, Overhydration of laboratory rats with glycerol solutions.

Taylor, Frederick W. Faculty participant in Minority Access to Research Careers (MARC) funded by NIH through Dept. of Math & Stat., Dr. R. Griego.

Thornhill, Randy. Off-campus seminars: (A) Dept. Biology, George Mason Univ., (B) Dept. Zoology, Univ. Maryland, (C) Dept. Zoology, Univ. Texas, Austin, (D) Dept. Biology, Univ. Connecticut, (E) Dept. Biology, Boston Univ., (F) Dept. Entomology, Univ. Mass., (G) U.S. National 200, (H) Dept. Psychobiology, Univ. Calif., Irvine.

Also served as NSF panel member (Psychobiology program).

Trujillo, John L. Nominated for Membership of American Society of Biological Chemists - pending.

Wiens, John A. Invited seminars: Utah State University, Logan (January), Colorado State University, Fort Collins (December), University of Wyoming, Laramie (December).

7. Other Professional Activities (continued)

Yates, Terry L. Represented the American Society of Mammalogists at an ASC-NSF national voucher specimen conference, Washington D.C., Sept. 1981.

8. Non-Teaching University Service

Altenbach, J. Scott. Chairman undergraduate curriculum committee.

Baca, Oswald G. UNM Institutional Biosafety Committee (member); Graduate Policy Committee, Biology Dept. (member); Member & Chairman of the Policy Board on UNM's Southwest Hispanic Research Institute; UNM Ambassador Program: presentations on behalf of UNM at Belen & Bernalillo; Participated in UNM's Office of School Relations Project Albuquerque Home Visits; Science Fair Judge at the NW Regional Science Fair held at UNM (Spring '80); Departmental Safety Committee; Member of the Hispanic Engineers Advisory Council.

Bourne, Earl W. Premedical Advisor, Student Standards & Grievance Committee.

Cates, Rex G. Member of University Research Allocations Committee; Chairman, Department Graduate Policy Committee; Member of Department Toxic Wastes Committee, Greenhouse Committee, Ad Hoc Graduate Policy Curriculum Committee.

Crawford, Clifford S. Major advisor, 1 doctoral student; Member, UNM Long Range Planning Committee; Chair, A&S Committee on Academic Policy and Curriculum.

Degenhardt, William G. Graduate Advisor (1); Curator of Division of Herpetology (Mus. SW Biol.); Member of the Union Board; Dept. Teaching Evaluation Committee (Chair).

Duszynski, Donald W. Served on A&S Promotion Committee for FY 1980-81, see attached letter "E"; Appointed to A&S Promotion Committee for FY 1981-82; Gave talks to & conducted tours for NM high school students interested in biology, see attached letter "F".

Ewing, Evelyn. Committee on Studies and Dissertation Committee for M. London; Master's Committee for D. McElroy; Dissertation Committee for S. Atchley; Referee for Professional Journals; and Regional Science Fair Judge.

Findley, Jim. Chair, Dept. of Biology.

Gosz, James R. Acting chairman, summer and fall semester, 1981; advisor of 6 graduate students; chairman of 1 department committee; member of 2 other department committees.

Johnson, Gordon V. University Committee: Radiation Control Committee; Departmental Committee: Faculty and Graduate Assistant Teaching Evaluations; Graduate Student Committees (completing 1981) G. Schiefer (MS), E. Taylor (Ph.D.).

8. Non-Teaching University Service (continued)

Johnson, William W. Chair of Admissions and Registration Committee (Sem I & Summer); Faculty Senator; Transfer Student Advisor (Biology); Biology Liaison Rep. with General Library; Senate Task Force on Committee Reorganization; and Chair of Registrar Search Committee; High School Senior Day (Biology).

Kerkof, Paul R. Spring 1981:

Served on the following committees: The UNM Radiation Protection Subcommittee; The Department of Biology Core Curriculum Committee; The Department of Biology Graduate Student Selection Committee.

Major professor for one Masters degree student; directed the research of two students on the Biomedical Student Advancement Program of the NIH; served on the dissertation committees of 2 Ph.D. students; served on the Committee on Studies for 3 Ph.D. and 2 Masters degree students.

Kidd, David E. Served on committees: Dean's committee on Teaching Resources; Basic skills committee. Departmental representative for the university faculty lobbying group. Occasional consultant on the university skills natural science program--most recent for visitors from Weber State and Southwest Texas State College. Major advisor for two doctoral candidates.

Kogoma, Tokio. Served on committees: Institutional Biosafety Committee; Advisory committee to Dr. T. Tomasi (with regard to positions in the Department of Cell Biology, UNM School of Medicine); Space Evaluation Committee (Biology).

Ligon, J. David. Chairman, Biology Dept. Graduate Policy Committee, Spring 1981. Major advisor of five graduate students (e Ph.D., 2 M.S.)

Martin, William C. Member of Governor's committee on threatened and endangered species. Curator of the Herbarium and Museum of Botany, UNM. Sandia colliquum committee member; graduate evaluation committee member (departmental). Preforestry advisor (departmental). Departmental keyperson--United Way.

Molles, Manuel C. Jr. Curator of the University of New Mexico Fish Collection.

Potter, Loren D. Served on Committees: Departmental Grievance Committee; Departmental Curriculum Committee; Departmental Space Committee; Major professor for 5 graduate students.

Riedesel, Marvin L. Served on Committees: UNM Humane Care of Lab Animals, 1976-present; M.S. Committee Plan II: David Williams, completed M.S. Fall 1981, Ph.D. Dept. Physiology, Reed Hoyt, completed Spring, 1981; Chairman M.S. Committee Plan I, in progress, Sue Likens, Joe Michael; Ph.D. Committee, in progress, Michael B. Curtis.

Toolson, Eric C. Chairman, Biology Department Space Utilization Committee; Member, Biology Undergraduate Curriculum Committee; Member, Biology Graduate Core Curriculum Committee.

8. Non-Teaching University Service (continued)

Thornhill, Randy. TV appearance: Channel 5 documentary on human rape to be televised in late Dec. 1981.

Trujillo, John L. Minority Biomedical Grant-Member. F Advisory Council NIH. BSRG Grant Reviewing Committee for UNM (Dr. Scaletti). Ph.D. committee for Martin Connaughton. Ph.D. committee for Edward Foster. A & S committee for Evaluation Medical School Applicants.

Vogel, Kathryn G. Member of Faculty Senate; Member of Research Policy Committee and Research Administration Sub-committee.

Wiens, John A. Faculty advisor to 5 Ph.D. students and 1 MS student; member Biology Graduate Policy Committee, Biology Seminar Committee; Chairman, Biology ad hoc Ecology Committee; member A & S Graduate

Committee; Theses and dissertations:

Thomas L. George. M.S. Winter Territoriality in Townsend's Solitaire, Myadestes townsendi (December 1981).

Richard K. O'Hara. Ph.D. Habitat Selection Behavior in Three Species of Anuran Larvae: Environmental Cues, Ontogeny, and Adaptive Significance (Oregon State University, June 1981).

William R. Rice. Ph.D. Acoustic Localization of Concealed Prey by the Diurnal Harrier (Circus cyaneus) (Oregon State University, June 1981).

Beatrice Van Horne, Ph.D. Demography of Small Mammal Populations in Seral Stages of Coastal Coniferous Forest, Southeast Alaska (December 1981).

Yates, Terry L. Served on committees: Computerization committee, Dept. of Biology; Graduate policy committee, Dept. of Biology; Parents day committee, chairman, Dept. of Biology; Space committee, Dept. of Biology. Museum tours were given to numerous groups including classes from other UNM departments and APS. Informal no-credit seminar conducted weekly at my home on systematics and evolution. Two departmental seminars were presented.

9. Public Service

Altenbach, J. Scott. Cubmaster, Pack 401, 1981. Several talks to grade school children on bats, reptiles and the environment.

Crawford, Clifford S. Educational session on insects with local grade school class.

Degenhardt, William G. Assisted the Fund Raising Committee of the New Mexico Museum of Natural History.

Ewing, Evelyn. Volunteer work.

Findley, James. Bosque Advisory Commission, Village of Corrales, NM

9. Public Service (continued)

Gosz, James R. 4-H Club Leader.

Johnson, Gordon V. 4-H Club Project Leader.

Kidd, David E. Director of OBTA.

Martin, William C. Non-paid consultant - Poison Control Center; Consultant and participant in the renovation of Castetter Gardens; Community advisor on growth and identification of plants.

Riedesel, Marvin L. Judge, New Mexico Regional Science Fair.

Vogel, Kathryn, G. Chairman, Board of Christian Education, First Congregational Church.

Wiens, John A. Basketball coach, YBA

DEPARTMENT OF CHEMISTRY

UNIVERSITY OF NEW MEXICO

July 1, 1981-June 30, 1982

THE REPORT OF THE DEPARTMENT OF CHEMISTRY

July 1, 1981 to June 30, 1982

Riley Schaeffer, Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year 1981-82

During the 1981-82 year fifteen students were graduated with a B.S. degree in chemistry. The distribution according to sex was more equal this year than in 1980-81 in that nine of our graduates were men and six were women. In addition to the fifteen chemistry majors, eighteen men and sixteen women took a minor in chemistry. This year we did not award any B.A. degrees (see below). At the graduate level, seven men and one woman were awarded the M.S. degree and four men and two women were awarded the Ph.D. in Chemistry. Students receiving degrees in Chemistry are listed below.

Students receiving the B.S. Degree in Chemistry in 1981-82

Jane E. Agnew	Mary M. Dobry	Michael D. Kelly
Rosalie E. Semarge	Kevin R. Zavadil	Theresa Anaya
Louis F. Cannizzo	Stella D. Casaus	Alan A. Church
Norman A. Graf	Therese P. Martinez	John A. Stokely
Andrew D. Meikle	Matthew H. Trainor	Patric F. Norris

Students completing the Master's Degree in Chemistry in 1981-82

Gordon C. Fischer	Patrick M. Dhooge	Lynda M. Faires
Alberto A. Leon	Frank C. See	Samuel S. Wat
Douglas W. Uhland	Ed I. Yin	

Students completing the Doctor of Philosophy Degree in Chemistry
in 1981-82

W. Dennis Dean	Research Chemist, Dow Chemical, Midland, MI
D. "Mike" Marcovich	Research Chemist, Nalco Chem. Co., Chicago, IL

Yolanda D. Jones Chemist, NM State Environmental
 Improvement Div.

Phyllis A. Leber Assistant Professor,
 Franklin and Marshall College

J. Douglas Mather

Henry C. Na Research Chemist, PPG Industries,
 Corpus Christi, TX

A number of the students receiving the bachelors degree will go on for advanced study. One of these has been accepted in the Medical School at UNM. Two of our graduates will pursue graduate studies in this department. One will go to the California Institute of Technology and one will go to Johannes Gutenberg University in Germany to do advanced work in chemistry. In addition, one student who received a M.S. degree in chemistry will enter the School of Medicine at UNM.

The Department of Chemistry presented the following awards for academic excellence to majors during the 1981-82 year:

Scott B. Johnson was named recipient of the Steven A. Bernitsky Memorial Presidential Scholarship which is awarded

each year to a senior Presidential Scholar who is majoring in Chemistry. Mr. Johnson was also named as co-recipient of the Paul Mozley Award given each year to outstanding juniors majoring in Chemistry. Also receiving the Mozley Award was Carole E. Gervais.

Graduating seniors receiving awards were Brad Baack, Patrick Norris, Norman Graf, Kevin Zavadil and Louis Cannizzo. Mr. Baack and Mr. Norris received jointly the LeRoy Gibson/Mike Millican Memorial Prize. In addition, Mr. Norris received the award sponsored by the American Institute of Chemists as the outstanding graduating senior in Chemistry. Mr. Cannizzo received both the Dean Uhl Scholarship Prize in Chemistry and the Merck Index Award. Norman Graf and Kevin Zavadil received the John D. Clark awards in Chemistry. Mr. Graf also received a German Academic Exchange Service Scholarship from the West German Government to allow him to carry out graduate study in Chemistry at the Johannes Gutenberg Universitat in Mainz, W. Germany. Two other seniors, Philip Hopkins and Zev-David Nash also received John D. Clark Awards.

Sophomores Denise Worthen, Catherine Weaver, and Brian Fisk were named as co-recipients of the J. L. Riebsomer Memorial Prize in Chemistry.

Larry Moore of Albuquerque received the Ann Kahn Memorial Prize in Chemistry and Larry Hutchins was the recipient of the Graduate Scholarship in Chemistry Award given each year to an outstanding student in the Graduate Program.

The Freshman Chemistry Achievement Award sponsored by the CRC Press was given to co-recipients Philip Cornwell and Matthew Fisk.

The Department received a grant from the National Science Foundation providing matching funds for the purchase of a gas chromatograph mass spectrometer. The proposal which resulted in this grant was prepared by Professor Hollstein. He and Professor Morrow carried out an extensive study of instruments available and a Finnegan Model 4510 Automated GC/MS/DS Mass Spectrometer was delivered in February. Unfortunately, Room 384 where this instrument is to be installed is still not ready to receive it and we are awaiting modifications to the electrical, plumbing and air conditioning systems before the instrument can be placed in use.

Two significant changes were made in our academic programs during this year. The program for the B.A. was reviewed and minor changes were made to make the program better serve the

group for which it is principally intended. In past years significant numbers of students aiming towards medical school admission took a B.A. in Chemistry. Introduction of a requirement of a calculus based physical chemistry course about five years ago has resulted in decreasing enrollments in this program. This year, in fact, no B.A. degrees were awarded. Review of the programs of other institutions revealed that those universities where large numbers of students followed this premedicine route did not require a physical chemistry course comparable to ours. We have therefore returned to our earlier practice. This Department is firmly convinced that a premedicine program strongly based in chemistry provides one of the strongest possible backgrounds, particularly for students who may wish to pursue medical research. It is becoming increasingly apparent that an ever larger fraction of major medical advances are based on an understanding of the molecular (and thus chemical) basis of biological events.

A second major change that has occurred links the undergraduate to the graduate program. We have devised a combined five year program leading from college admission to the M.S. degree. An outline of this program as currently planned is presented in Appendix I. The department is committed to providing financial assistance to students in this program beginning in

the summer between the junior and senior years and continuing for the balance of the program. We believe that this program will enable a larger fraction of both financially disadvantaged and also minority students to remain in their program to the stage where significantly better career opportunities exist. The Department has completed action on this program and it is ready for submission to the College Committee early in the fall. Recruitment into this program will be a major departmental goal in the 1982-83 academic year.

A major advance in research and instructional capabilities of the department came about this year with the addition of a full time electronics technician in the department (Jay Miller). It would not be possible to fully document all of the benefits that have occurred as a result of this staff addition but perhaps one case will serve to illustrate the change. The Department has had a Varian XL-100 nuclear magnetic resonance spectrometer for about a decade. This instrument is no longer manufactured and indeed Varian no longer is committed to maintaining a supply of spare parts. It was inoperative on July 1 and remained so until Mr. Miller and the service representative brought the instrument up in May. The spectrometer has been in continuous service since that time and relieves part of the load on other

departmental instruments. This would not have been accomplished without a full time technician.

During the past year the department maintained an active seminar program as an integral part of its graduate instructional activities. On March 26 the first Milton Kahn lecture was presented by Prof. Arthur Wahl of Washington University (St. Louis). Professor Wahl was Professor Kahn's major professor for the Ph.D. degree. The lecture was funded by numerous friends of Professor Kahn from the department (both present and past professors and students) and from the community at large including many friends from Los Alamos. On April 12 Professor George Pimentel of the University of California (Berkeley) presented a Sandia Distinguished Lecture. Professor Pimentel is Director of the Biodynamics Laboratory and former Deputy Director of the National Science Foundation. Other seminar speakers and their titles are listed below.

FALL 1981

Chemistry Colloquia

Dr. Bruce Kowalski September 9, 1981	"Recent Developments in Chemometrics"	University of Wisconsin
Dr. Thomas J. Meyer September 18, 1981	"Energy Conversion Processes Based on Molecular Excited States"	Univ. of North Carolina
Dr. Franco Castelli September 25, 1981	"Evidence for Cooperative Calcium Binding to Perv-albumin by Emission Lifetime and Quenching Measurements" (or the Pitfalls of Single Photon Counting Measurements).	Univ. of Arizona and Univ. of Rome
Dr. William A. Remers October 2, 1981	"Chemistry and Antitumor of Mitomycins"	University of Arizona
Dr. Donald Thompson October 16, 1981	"Theoretical Chemical Dynamics Studies of some van der Waals Chemistry"	Los Alamos National Lab
Dr. Robert A. Moss October 23, 1981	"Adventures in Carbene Chemistry"	Rutgers University
Dr. Tobin Marks October 30, 1981	"Design of Molecular and Macromole- cular Metals"	Northwestern University
Stephen F. Martin November 13, 1981	"Synthetic Applications of Intramole- cular Cyclo-additions"	University of Texas, Texas, Austin

Dr. Gerd LaMar November 18, 1981	"NMR Characterization of Structural Heterogeneity and Heme Electronic Structure in B Type Heme Proteins"	University of CA, Davis
Dr. Jeffrey I. Zink November 20, 1981	"Excited State Distortions and Transition Metal Photochemistry"	Univ. of CA, Los Angeles
Dr. Stephen Roeder November 2, 1981	"Enhancing nmr Sensitivity - New Coils in Old Spectrometers"	San Diego State and Los Alamos Nat. Lab.
Dr. Barrie Sosinsky December 4, 1981	"Quaternary Carbon in Catalysis"	Rice University
Dr. Jan Linderberg December 7, 1981	"Discussion of Reactive and Inelastic Molecular Collisions"	Aarhus Univ., Denmark
Dr. Herbert D. Kaesz December 4, 1981	"Reaction of Nucleophiles with Metal Cluster Clusters"	Univ. of CA, Los Angeles

SPRING 1982

Chemistry Colloquia

Dr. Mark Ondrias January 15, 1982	"Spectroscopic Investigations of Chromatium Flavocytochrome <u>c</u> 552"	Bell Labs
Dr. Carlos Bustamante January 18, 1982	"Circular Differential Scattering Ratio Spectroscopy"	Univ. of CA, Berkeley

Dr. James Slama January 19, 1982	"Structural and Synthetic Studies of the Cytochrome-c Prosthetic Group"	University of Chicago
Dr. Rueben Hwu January 20, 1982	"Total Synthesis of (+)-Progesterone"	Stanford University
Dr. Bruce King January 21, 1982	"Chemical Applications of Graph Theory"	University of Georgia
Dr. Jerry Mills January 29, 1982	"Chemistry of Polyphosphines"	Texas Tech University
Dr. Gary Hieftje February 5, 1982	"New Correlation Based Measurements in Time Resolved Laser Spectroscopy"	Indiana University
Dr. Allen Chang February 9, 1982	"High Performance Liquid Chromato- graph With Substitution Inert Metal- Complexes"	University of Texas at El Paso
Dr. James D. Ingle February 26, 1982	"Luminescence - Kinetics Based Analytical Measurements: Fluorescence to Chemiluminescence"	Oregon State University
Dr. Kensa1 Van Holde March 2, 1982	"Nucleosomes: Structure and Dynamics"	Oregon State University
Dr. Carlyle Storm March 12, 1982	"Exchange - Inert Metal Ions as Probes of Structure and Activity of Metallo- proteins"	Howard University
Dr. Arthur C. Wahl March 26, 1982	"Electron Transfer in Solution"	Washington University

Dr. Jenny Glusker April 45, 1982	"Stereochemistry and Prochirality of Citrate"	Inst. for Cancer Research, Phil, PA
Dr. Fred C. Anson April 9, 1982	"Catalytic Applications of Redox Poly- omers and Porphyrins Attached to the Surface of Graphite Electrodes"	Calif. Inst. of Tech- nology
Dr. George C. Pimentel April 12, 1982	"Infrared Induced Chemical Reactions: Mode Selectivity μ "	University of CA., Berkeley
Dr. Karen Morse April 16, 1982	"New Copper (I) Complexes Containing Phosphine Ligands and Substituted Hydroborates"	Utah State University
Dr. S. Srinivasan April 23, 1982	"Fuel Cells for Power Generation and Transportation Applications"	Los Alamos National Lab
Dr. Lee Radziemski April 30, 1982	"Laser Induced Breakdown Spectroscopy: A New Spectrochemical Technique"	Los Alamos National Lab
Dr. Heinz Noeth May 24, 1982	"Boron Cations - New Aspects of Electrophillic Substitutions"	University of Munich

B. Significant Plans and Recommendations for the Near Future

The department is in an active growth stage and further faculty additions are high priority for the 1982-83 year. Since Professor Coleman has resigned to move to Wellsley (see Section D), we shall be searching for a replacement for him as well as a new assistant professor (as previously agreed). Teaching loads in the department are still far over the level recommended by the Regents (average load for the last two years was about 11.5 hours per semester despite the fact that nearly all of the faculty are deeply engaged in research).

The department continues to function without adequate technical support. We still have no full time shop help in the metal and wood working. This will remain a critical need until a position in this area can be created. Unfortunately, other staff needs remain at higher priority. At least one new secretarial position should be created to take care of the needs of the very large freshman and organic classes. A request will be made for creation of this position in the 1982-83 year. We should point out that major research departments require approximately equal numbers of faculty and staff positions and a continuing effort will be required in this area for several years before we achieve even a marginal position.

High priority is also attached to recruitment of new graduate students with the ultimate aim of having between 100 and 125 graduate students. Some details of the recruiting program are presented in Appendix II. The data presented there will substantiate the fact that the recruiting activities of the department are carried out on a nationwide and indeed a world wide basis. Over half of our U.S. applicants are from east of the Mississippi river. Also, note that one third of our applicants are from other countries (although few are accepted). The latter aspect of our recruiting will be broadened still further next year as the result of the addition of Dr. Carlos Bustamante to our faculty. Dr. Bustamante is a native of Peru and did his undergraduate work there. He has already made preliminary contact with two universities in Lima and four students have expressed interest in joining our department. Furthermore, the Departments there have expressed an interest in cooperating with our department and this possibility will be actively explored next year.

A serious problem that hampers our recruiting efforts arises from the late decisions made concerning stipends for teaching assistants. Active recruiting begins in the field of chemistry before Thanksgiving and offers to outstanding students are

generally made beginning in early January and sometimes even earlier. We have experienced some problems during the current year as a result of lack of understanding of these problems within the University Administration.

There is at present in the department a serious understaffing in the area of teaching assistants. In most universities of our size the TA is assigned two laboratory sections, responsibility for grading, proctoring, etc and one or two discussion sections. Under these conditions, it is possible to use the TA's for direct contact with the undergraduates to assist in instruction. One must bear in mind that most of our large courses are given in lecture section ranging from 150 or so to more than 500 students. Under this situation, it is not surprising that most students respond with the name of their TA when asked to name their instructor. What is usually done to relieve the problem is to schedule hours for individual discussion or help sessions using TA's. These sessions are invaluable to the student and allow us as instructors to give assistance that is not possible in any other way. The Chemistry Department at UNM simply does not have the personnel at either faculty or TA level to do the job as it ought to be done. We must work to remedy this situation as soon as possible. As a near term solution to this problem, we

recommend the addition of five new teaching assistants each year for the next three years. At the end of that period our staffing will match our needs.

We have also experienced some difficulties during the current year as a result of failure of University Administration to fully comprehend the critical evaluative procedures used by the department in judging progress of graduate students. For this reason, Appendix III presents a brief summary of the examinations and other requirements used by the department. In particular we should stress that the proficiency examinations are graded on a nationally standardized scale. The scale was established with the cooperation of many large and strong departments including Stanford, Illinois, Purdue, North Carolina and others. Thus, our passing level at the seventieth percentile is a rigorous standard. It may be worth explicitly noting that the department makes no use of Graduate Record Exams in its recruiting. It is the experience of this department as well as the general experience of departments throughout the country that such exams have little value. As a case in point, we mention that the student in this department that failed all courses he attempted in the fall semester was in the top ten percent on these exams!

A serious problem that faces the department in the immediate future is the need for additional space. We recommend immediate consideration of this problem. Last years annual report of the Department presented a building plan which, if immediately followed, would still leave us with severe short range problems. A temporary solution must be found and we suggest that modular buildings be installed in the space immediately to the East of Clark Hall. These buildings should supply space six offices to be used by faculty and teaching assistants associated with the freshman and organic courses that enroll the bulk of our undergraduate students. The area suggested is directly outside two of the large freshman laboratories and close to the main chemistry lecture hall used for a number of these courses.

A proposal was submitted to the NSF requesting matching funds for the purchase of a high field nuclear magnetic resonance spectrometer. Reviews of the proposal were slightly below the cutoff point for funding. Professor Satterlee and Professor Schaeffer rewrote the proposal and a significantly stronger document was submitted simultaneously to the Chemistry and the Biological Instrumentation Programs of the NSF on April 30. This instrument is crucial to the advance of a large number of research programs within the department and we are hopeful that matching funds will be available during the 1982-83 year.

C. New Additions

Dr. Riley Schaeffer joined our faculty in August 1981 as Professor and Chairman. Dr. James Satterlee joined us at the same time as an assistant professor. Dr. Schaeffer works in inorganic chemistry and Dr. Satterlee works in biophysical chemistry.

In the fall of 1981, we conducted a search for two new faculty in the broad general area of chemistry with important applications to the field of biology. We received about 150 applications for these positions and about a dozen of these were excellent candidates. Five individuals were interviewed (a sixth interview trip was offered to a woman who declined the interview) and we believe that all five candidates would have made good additions to the department. Offers of the positions were made to Dr. Carlos Bustamante (University of California, Berkeley) and to Dr. Rueben Hwu (Stanford University). Dr. Hwu declined our offer in favor of one from Johns Hopkins University and Dr. Bustamante accepted. The second position was then offered to Dr. Mark Ondrias (Bell laboratories) who accepted. Both new appointments will be effective at the beginning of the next

academic year. With these additions we have a very strong group of young people interested in the general area of physical bio-chemistry.

Mr. Jay Miller, III joined the staff as an electronics technician as mentioned in Section A. Carmen Cereceres joined the office staff as an accounting technician. Nancy Pressley was hired as a temporary accounting technician and Sondra Hawley was hired as a temporary clerical specialist to fill in when Marlene Johnson was absent as a result of an emergency operation and recuperation.

D. Separations

Nancy Pressley resigned as accounting technician and Sondra Hawley was terminated when Ms. Johnson returned. The Department regrets to announce that Prof. William Coleman accepted a position at Wellsely and will leave the Department in August 1982.

E. Sponsored Research

The Department has become increasingly aggressive in the search for outside funds to support its research program. Only

two of our faculty at the rank of assistant professor or above have no research support. Professor Caton is one of these and devotes his full time efforts to the undergraduate program, principally in freshman chemistry. Professor McLaughlin is now Director of the Los Alamos program of the University and spends only one third of his time in the Department.

Research proposals have been submitted this year to the following organizations:

- National Science Foundation
- National Institutes of Health
- Sandia
- Petroleum Research Fund
- Department of Energy
- Public Health Service
- Air Force Weapons Laboratory
- Air Force Summer Faculty Research Program
- Army Medical Research Command
- DuPont
- Digital Electronics Corporation
- Research Corporation
- Society of Analytical Chemists
- American Heart Association

In addition to the above agencies, nine faculty in the department receive research support through the MBS program. Appendix IV presents a list of grants that have been active during the 1981-1982 year. Total grants active during this period had a value of \$1,150,719.

F. Other Personnel Actions

The half time position held by Mary Orr was changed to three quarter time. The Clerical Specialist V positions held by Russell Hallett and Leonard Ortiz were upgraded to Storekeeper I and the Clerical Specialist V position held by Carl Hilton was upgraded to Storekeeper II. A complete list of current faculty and staff is presented in Appendix V.

Composite of Information Submitted on Individual Biographical Supplement:

1. Advanced Study:

(a) None

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.:

(a) RICHARD W. HOLDER: January-June, Indiana University;
July-December, Harvard University.

- (b) ULRICH HOLLSTEIN: October, visited Gas Chromatograph-Mass Spectrometer Applications Laboratories of Finnigan-MAT in Sunnyvale, CA, and Hewlett-Packard in Palo Alto, CA.

3. New Scholastic honors, fellowships:

- (a) None

4. Publications:

(a) FRITZ ALLEN:

- (1) A Digital Procedure to Emulate Phase Sensitive Detection, R. J. Fraatz, W. H. Rahe and F. S. Allen, Computers and Chemistry, 5, 101-107 (1981). In press.
- (2) Sequence Dependence of the Circular Dichroism of Synthetic Double-Stranded RNAs D. M. Gray, J-J Liu, R. L. Ratliff and F. S. Allen, Biopolymers, 20, 1337-82 (1981).
- (3) Electro-Optics of Viruses and Bacteriophage, Molecular Electro-Optics, ed. S. Krause, Plenum Press, 399-415 (1981).

(b) ROY D. CATON:

- (1) "The Effect of Diffusion Coefficient Error on the Value of η in Common Equations of Electroanalytical Chemistry", Analytical Letters, 14 (A3), 175-180 (1981).
- (2) Book review: "Chemistry. An Introduction", by S. B. Newell, J. Chem. Educ., 58, A203 (1981).

(c) WILLIAM F. COLEMAN: Note that the first three publications listed are dated 1980. They however, did not appear in print until April 1981.

- (1) "Luminescence Spectra of Cr(III)-Glycine Complexes," J. Luminescence, 22, 29 (1980).
- (2) Excitation Spectra of Chromium(III) Complexes," J. Luminescence, 22, 17 (1980).
- (3) "Bidirectional Wavelength Dependent Energy Transfer in the System Cr(acac)₃-Azulene," J. Luminescence, 22, 23 (1980).

- (4) "On the Nature of the Product of the Reaction of Chromium (III) with Alanine," J. Inorg. Nucl. Chem., 43, 631 (1981).
- (5) "A Topics Course on Lasers in Chemistry," J. Chem. Ed., 58, 652 (1981).
- (6) "Review of Advances in Inorganic Chemistry and Radiochemistry," Vol. 22 in Synthesis in Inorganic and Metalloorganic Chemistry, 11, 505 (1981).
- (d) GUIDO H. DAUB:
- (1) Textbook: William S. Seese and Guido H. Daub, Bašić Chemistry, 3rd Edition, Prentice-Hall, 576 pp., January 1981.
- (2) Textbook: William S. Seese and Guido H. Daub, Student Guide for Basic Chemistry, 3rd Edition, Prentice-Hall, Inc., 220 pp., January 1981.
- (3) Research Paper: James R. Wilson, Su-Moon Park, and Guido H. Daub, "Electrogenerated Chemiluminescence of trans-Stilbene Derivatives", J. Electrochem. Soc., 128 (10), 2085 (1981).
- (4) T. Whaley, G. H. Daub, R. D. Walker, and D. L. Williams, "Synthesis With Stable Isotopes: Oleic- ^{13}C Acid and Triolein- $^{1,1',1''}$ - $^{13}\text{C}_3$ ", J. Labelled Compds. Radiopharm., 18, 5993-1603 (1981).
- (e) LORRAINE DECK:
- (1) Revised the copy of the Chem 111 Lab. Manual, published by Burgess.
- (f) RICHARD W. HOLDER:
- (1) "Gem-Substituted Cyclopentadienes. 1. Synthesis of 5,5-Dialkylcyclopentadienes via 4,4-Dialkylcyclopent-2-en-1-ones" submitted to Journal of Organic Chemistry.
- (2) "Thermal Rearrangements of Encumbered Methylene-cyclobutanes. I. 6-Methylenebicyclo[3.2.0]-heptene. Submitted to Journal of American Chemical Society.
- (g) ULRICH HOLLSTEIN:
- (1) Carbon-13 NMR Studies of Tautomerism in Some 2-substituted Imidazoles and Benzimidazoles Org. Magn. Res., in press.

- (h) WILLIAM M. LITCHMAN:
(1) "The Crystal Structure of Disodium Tris(glycinato)-nickelate(III) Perchlorate Monohydrate, $\text{Na}_2[\text{Ni}(\text{NH}_2\text{CH}_2\text{COO}_3)]\text{ClO}_4 \cdot \text{H}_2\text{O}$," Journal of Inorganic Chemistry, December, 1981.
- (i) JON R. MAPLE:
(1) "Matrix Isolation Site Selection in Fluorescence Spectrometry of Polar Derivatives of Polycyclic Aromatic Hydrocarbons", Analytical Chemistry, 53, 266 (1981) with E. L. Wehry.
(2) "Fluorescence Photoselection of Matrix Isolated Polycyclic Aromatic Hydrocarbons", Analytical Chemistry, 53, 1244 (1981) with E. L. Wehry.
(3) "Fluctuations on the Approach to Equilibrium: Molecular Dynamics Study of Rotational Correlations for Vibrating Molecules", Journal of Chemical Physics, 73(7), 3346 (1980), with R. S. Wilson and J. T. Knudtson.
- (j) CARY J. MORROW:
(1) "Determination of the Enantiomeric Purity of Mevalonolactone via NMR Using a Chiral Lanthamide Shift Reagent," Journal of Lipid Research, accepted. (With William K. Wilson and T. J. Scallen).
- (k) THOMAS M. NIEMCZYK:
(1) "Excitation Temperatures in the Hollow Cathode Discharge", Applied Spectroscopy, 35, 66 (1981).
(2) "Plasma Models Applicable to Low Pressure Discharges", Spectrochimica Acta, 36B, 965-971 (1981).
(3) "Convenient Modifications to a Varian AA-6 Atomic Absorption Spectrometer to Allow Use with a Graphite Furnace Atomizer", Applied Spectroscopy, 35, 512 (1981).
(4) "A Computer Controlled Photon Counting Spectrometer for Rapidly Scanning Low Light Level Spectra" chapter in Digital Computers in Analytical Chemistry Part II, J. B. Justice and T. L. Isenhour, Eds., Academic Press, NY 1981.
(5) "Assessment of Water Supply Contamination Due to Underground Coal Gasification" WRRRI Report No. 128, New Mexico Water Resources Research Institute, Las Cruces, NM, 1981.

- (6) "The Design and Construction of an Inexpensive Transient Recorder", *Chemical, Biomedical and Environmental Instrumentation*, 11(4), 305 (1981).
- (1) ROBERT T. PAINE:
(1) J. S. Jessup, R. T. Paine, and C. F. Campana, "The Synthesis and Characterization of Borane(3) Complexes of 1,3-Di-(tert-butyl)-2,4-difluorodiazadiphosphetidine. The Crystal and Molecular Structure of the Bis Borane(3) Complex," *Phosphorus and Sulfur*, 9, 279 (1981).
(2) Wrote and have had accepted five papers.
- (m) E. PAUL PAPADOPOULOS
(1) "Reactions of o-Aminonitriles with Isocyanates. 2. A Facile Synthesis of Imidazo[1,2-c]-quinazolin-2,5-(3H,6H)dione," *Journal of Heterocyclic Chemistry*, Vol. 18, pp. 515-518, 1981.
(2) "Heterocycles from N-Benzoylthioamides and Dinucleophilic Reagents," coauthored with L. L. Whitfield, Jr., *Journal of Heterocyclic Chemistry*, Vol. 18, pp. 1197-1201, 1981.
- (n) SU-MOON PARK
(1) "Electrochemically Activated Binding of Benzo[a]pyrene and 6-Methylbenzo[a]pyrene to DNA", *J. Am. Chem. Soc.*, 103, 2123-2124 (1981), D. A. Tryk, coauthor.
(2) "Excited State Intermediates Probed by Electrogenerated Chemiluminescence", *Rev. Chem. Intermediates*, 4, 43-79 (1981), D. A. Tryk, coauthor.
(3) "Electrogenerated Chemiluminescence of trans-Stilbene Derivatives", *J. Electrochem. Soc.*, 128, 2085-2089 (1981), coauthors, J. R. Wilson and G. H. Daub.
(4) "Dependence of Flatband Potentials of n-TiO₂ on Electrolytes and Electrolyte Concentrations", *J. Electrochem. Soc.*, 128, 2369-2370 (1981), coauthor, J. R. Wilson.
(5) A book review, "Photoelectrochemistry" by Yu. Ya. Gurevich, Y. V. Pleskov and Z. A. Rotenberg, Plenum Press, New York, 1980. Reviewed by S. M. Park, *Photochem. Photobiol.*, 33, 783 (1981).

- (o) JAMES D. SATTERLEE
- (1) "Proton Magnetic Resonance Characterization of the Oxidized Intermediates of Cytochrome c Peroxidase" *Journal of Biological Chemistry*, Vol. 256, 1091-1093.
 - (2) "Heme Asymmetry in Deuterohemin Reconstituted Cytochrome c Peroxidase", *Journal of the American Chemical Society*, Vol. 103, 199-200.
- (p) RILEY SCHAEFFER
- (1) Synthesis and X-ray Crystallographic Study of Tetradecaborane(20), *Inorganic Chemistry*, 1981, 20, 741-5 (with J. C. Huffman and D. C. Moody).
 - (2) Reactions of Hexaborane(10) with Lewis Acids to Yield Acid-Base Complexes and Synthesis of Halogenated Hexaborane(10) Derivatives via Halogen Transfer Reactions, *Inorganic Chemistry*, 1981, 20, 745-8 (with P. J. Dolan and D. C. Moody).
 - (3) $C_4H_{20}B_{20}Cl_4Si_2$, A Cyclic O-Carborane Derivative, *Cryst. Struct. Comm.* 1981, 10, 133-5 (with R. Ryan).
- (q) ROBERT T. TAPSCOTT
- (1) J. D. Mather and R. E. Tapscott, "Isomers of Tris-(2-methyl-1,3-propanediamine)/cobalt(III) -- A Complex of a Prochiral Sinambic Ligand," *J. Coord. Chem.*, 11, 5 (1981).
 - (2) R. M. Holland and R. E. Tapscott, "Equilibria of Vanadyl(IV) Tartrates in Aqueous Solution above pH7," *J. Coord. Chem.*, 11, 17 (1981).
 - (3) T. M. Anaya and R. E. Tapscott, "Kinetic Studies of Stereoselective Vanadyl(IV) Tartrate Reactions," *Inorg. Chim. Acta*, 49, 11 (1981).
 - (4) G. L. Robbins and R. E. Tapscott, "Oxidative Cleavage of Ditartrate-Bridged Chromium(III) Complexes -- a Stereochemical Correlation," *Inorg. Chem.*, 20, 2343 (1981).
 - (5) S. K. Hahs, R. B. Ortega, R. E. Tapscott, C. F. Campana, and B. Morosin, "Preparation, Characterization and Stereochemistry of Binuclear Vanadyl(IV) Monomethyl and Dimethyltartrate(4-) Complexes and the Crystal Structure of Tetrasodium [μ -(+)-Dimethyltartrato(4-)]-[μ (-)-dimethyltartrato(4-)]bis(oxovanadate(IV)) Dodecahydrate," *Inorg. Chem.*, 21, 664 (1982).

- (6) R. B. Ortega, R. E. Tapscott, and C. F. Campana, "Crystal and Molecular Structure of the Distal-Methyl Isomer of Tetrasodium [μ -(+)-threo-Monomethyltartrato(4-)- $[\mu$ -(-)threo-monomethyltartrato(4-)]-bis(oxovanadate(IV))tetradecahydrate," Inorg. Chem., 21, 672 (1982).
- (7) R. B. Ortega, R. E. Tapscott, and C. F. Campana, "Crystal and Molecular Structure of Sodium Hydrogen Bis(μ -ms-tartrato)bis(2,2'-bipyridyl)dichromate-(III)Heptahydrate: A Di-ms Ditartrate Bridged Binuclear Complex with a Short Intramolecular Hydrogen Bond," Inorg. Chem., 21, 2517 (1982).
- (8) R. E. Tapscott, "Stereochemistry of α -hydroxycarboxylate Complexes," in Transition Metal Chemistry (G. A. Melson and B. N. Figgis, eds.), Vol. 8, Marcel Dekker, N.Y., 1982.
- (9) E. N. Duesler, M. F. Gargallo, and R. E. Tapscott, "Structure of $1e1\ 1e1\ 1e1$ -Tris((+)-2,3-butanediamine)cobalt(III) Chloride", Acta Cryst. Sect. B, B38, 1300 (1982). in press.
- (10) D. Marcovich, E. N. Duesler, R. E. Tapscott, and T. F. Them, "Stereochemistry of Arsenic(III) and Antimony(III)b₂-Dihydroxycyclohexane-1,2-dicarboxylates," Inorg. Chem., in press.
- (11) Robert E. Tapscott, Burgess, 4th Edition (1982), "Experiments in General Chemistry" (extensive revision of earlier text).
- (r) DAVID L. VANDER JAGT
- (1) J. C. Ball, and D. L. Vander Jagt, "S-2-Hydroxyacylglutathione Hydrolase (Glyoxalase II): Active-Site Mapping of a Nonserine Thiolesterase". Biochemistry 20, 899-905 (1981).
- (2) P. C. Simons and D. L. Vander Jagt, "Purification of Glutathione S-transferases by Glutathione-Affinity Chromatography". Methods in Enzymology 77, 235-237 (1981).
- (s) EDWARD A. WALTERS
- (1) "Molecular Beam Photoionization of (H₂S)_n, n = 1-7", J. Chem. Phys. 75, 4208-4213 (1981).

5. Other research projects or creative work:

(a) ROY D. CATON

- (1) The use of videotapes in undergraduate instruction; General Chemistry Lecture demonstrations.

(b) WILLIAM F. COLEMAN

- (1) Relaxation of Highly Excited Vibrational Levels in HF/DF sponsored by AFOSR \$156,000 (1979-82).
- (2) The Radiative Lifetime of Excited Iodine Atoms--sponsored by AFOSR, \$30,000 (1981-82).
- (3) Laser Spectroscopy in the Advanced Undergraduate Laboratories sponsored by the National Science Foundation, \$15,000 (1981-82).
- (4) Photochemical Processes Involving Transition Metal and Rare Earth Complexes--unsponsored.
- (5) Non-Linear Optical Effects in Transition Metal Complexes sponsored by the National Science Foundation, URP Program, \$18,000 (1981).
- (6) Spectroscopic Properties of Chromium-Amino Acid Complexes--sponsored by the National Science Foundation Biomedical Support Program, \$62,000 (1980-83).
- (7) Structural Studies in Energy Transfer Processes in Mixed Valence Chromium Complexes--unsponsored.

(b) GUIDO H. DAUB

- (1) Continued work on the synthesis (and studies of) of ^{13}C labeled benzo[a]pyrenes and derivatives, especially arene oxides and chloromethyl derivatives.
- (2) Continued work on the synthesis of cyclopenta-[c,d]pyrene with a new approach.
- (3) Continuing studies on the reaction of lithio ethyl acetate with gamma-ketoesters, a modified Stobbe condensation.
- (4) Completed the synthesis of p-sulfamoyl- ^{15}N -benzoic-carboxyl- ^{13}C -Acid funded by Contract 2-LF1-7152X-1 from the Los Alamos National Laboratory (§3284).

(c) LORRAINE DECK

- (1) A paper is being revised for submission to the Journal of Organic Chemistry. The title is the "Synthesis of 10-Chloromethyl benzo[a]pyrene. The work was sponsored by a RAC grant. I am now working on a new synthesis of Cyclopentapyrene sponsored by a new RAC grant amounting to \$2000.

(d) RICHARD W. HOLDER

- (1) "Thermal Sigmatropic Rearrangements" completed Aug. 31, 1981. Petroleum Research Fund, \$30,000 for three years.
- (2) "Thermal Sigmatropic Rearrangements of Encumbered Methylene-cyclobutanes" submitted Dec. 1, 1981 to Petroleum Research Fund, requesting \$45,000 for three years.

(e) ULRICH HOLLSTEIN

- (1) Actinomycin Analogs with Long Chain Modified D-Valine, NIH/MBS, \$30,191, 3 years.
- (2) Binding of Low Molecular Antibiotics and Toxins to Polypeptides, LANL, \$20,000, 18 months.
- (3) Synthesis of permanently intercalated actinomycin, RAC, \$2000, 1 years.
- (4) Directed one NSF-funded Undergraduate Research Participant during summer ("URP Program).
- (5) Preferred Intercalation Sites of the Ethidium-DNA Complex.
- (6) Investigation of Lithospermic acid, an antiogonadotropic agent (in cooperation with the Department of Obstetrics/Gynecology, School of Medicine).

(7) Directed one Eldorado High School laboratory assistant under the Career Enrichment Program during summer.

(f) WILLIAM M. LITCHMAN

- (1) Dynamic properties of Metyrapone oil utilizing C-13 NMR. In progress.
- (2) Kinetics and dynamics of glucose metabolism in the liver by means of C-13 NMR. In progress.
- (3) "Carbon-13 Shifts in Some 1-Substituted 5-Imino-3-phenyl-4-thioxo-2-imidazolidinones and Related Compounds," sent to Journal of Heterocyclic Chemistry.
- (4) "Tautomerism in 3-Ethoxy-5-phenyltriazole," sent to Journal of Heterocyclic Chemistry.
- (5) "C-13 NMR Assignments in the Spectra of Some Substituted 5-Phenyl-1,2,4-triazoles and 5-Phenyl-1,2,4-oxadiazoles" sent to Journal of Heterocyclic Chemistry.
- (6) "Kinetics and Thermodynamics of Nickel(II)-glycine Complexes Using Carbon Magnetic Resonance. I. The 1:1 Complexes." In draft form.

- (7) "Kinetics and Thermodynamics of Nickel(II)-glycine Complexes Using Carbon Magnetic Resonance. II. The 2:1 and 3:1 Complexes."

In draft form.

(g) MIRIAM MALM

- (1) Development of format and related material for Chemistry 100.
- (2) Development of a Study Guide for Chemistry 212.

(h) JON R. MAPLE

- (1) One year \$29,000 grant from the Sandia University Research Program (SURP). Project title: "Laser Induced Fluorometric Analysis of the Aromatic Hydrocarbon Content of Potential Fuels."
- (2) One year \$10,000 grant from the American Chemical Society. Project title: Two Photon Excitation in Analytical Matrix Isolation Fluorescence Spectrometry of Polycyclic Aromatic Hydrocarbons.
- (3) "Characterization of Complex Mixtures of Polycyclic Aromatic Hydrocarbon Derivatives". This proposal was submitted as part of the Chemistry Department's National Science Foundation (NSF) proposal for the purchase of a Gas Chromatography-Mass Spectrometer. NSF approved (in 1981) a funding level of \$87,600.

- (4) One year \$500 grant from the Society for Analytical Chemists of Pittsburgh. Project title: "Laser-Induced Fluorescence Spectrometry of Aromatic Hydrocarbons".
- (5) A \$4844.00 Biomedical Research Support Grant (BRS6, UNM), funded from April 1, 1981 to December 23, 1981. Project title: "The Characterization of the Aromatic Hydrocarbon Content of Potential Fuels via a Stimulated Emission Technique".
- (6) Summer Research Stipend (1981, \$1400) from the College of Arts and Sciences, UNM. Project title: "Analysis of Carcinogenic Compounds in Potential Fuels."
- (7) A one year (1980-81) grant for \$1999.00 from the Research Allocations Committee (RAC) at UNM. Project title: "Fluorescence Photoselection Spectrometry of Matrix Isolated Polycyclic Aromatic Hydrocarbon Derivatives".
- (8) A one year (1981-82) grant from \$1998.00 from RAC (at UNM). Project title: "Fluorescence Photoselection of Matrix Isolated Aromatic Hydrocarbons".

- (9) A proposal entitled "A Plan to Increase the Number of Analytical Chemistry Graduate Students in the Department" was written and submitted in the Fall of 1981 to Proctor and Gamble Company in the hopes of obtaining a \$5000 award offered by P and G. Project not funded.
- (i) DON R. MCLAUGHLIN
- (1) Variational Calculation of the Lower Vibrational Energy Levels of the Ammonia Molecule, with Philippe Bopp and Max Wolfsberg, submitted for publication; under review Theoretical Binding Energy of HeH_3^+ , submitted for publication; under revision. Visiting staff member LANL.
- (j) CARY J. MORROW
- (1) NIH-PHS, "Synthesis of Cholesterol Biosynthesis Inhibitors" (2R01 HL 24457 \$25355 + IDC for 1981-1982 fiscal year; funded through August 1982.
- (2) NIH-PHS, "Synthesis of Potential Inhibitors of Cholesterol Biosynthesis," a component project of the Minority Biomedical Support Program, (A. C. Atencio, Program Director), \$16,057 + IDC for the 1981-82 fiscal year; funded through August 1983.

- (3) NIH-PHS, "Synthesis of Cholesterol Biosynthesis Inhibitors" (competing continuation for above), \$126,828 + IDC requested for 9/1/82-8/31/85; currently under review.
- (4) NIH-PHS, "Synthetic Regulators of Sterol Biosynthesis" a component project of a Program Project, "The Regulation of Cholesterol Metabolism," (Dr. T. J. Scallen, Program Project Director) \$276,757 + IDC requested for this project; \$5,134,354 + IDC requested for the entire Program; proposed period 7/1/82-6/30/87. I will also be Core leader for the "Chemical Structure and Analysis Core" of the Program. \$139,497 + IDC requested for the same period.
- (5) NSF, contributed to successful proposal for purchase of gas chromatograph-mass spectrometer (U. Hollstein, principal author) \$87,500 + UNM matching funds from severance tax bond money. (I was also active in selection of the instrument to be purchased.)
- (6) NSF, contributed to Chemistry Department proposal for purchase of high field NMR spectrometer. (R. Schaeffer, principal author.)

- (k) THOMAS M. NIEMCZYK
- (1) U.S. Department of Health, Education and Welfare
"Determination of Trace Metals in Biological Matrices" \$12,434.00. September 1, 1980 to August 31, 1981.
- (l) ROBERT T. PAINE
- (1) Dept. of Energy 8/79-6/82 \$140,718 "The Development of Surface Immobilized Ligands".
 - (2) American Chemical Society-Petroleum Research Fund 8/81-8/84 \$45,000, "Chemistry, Structure and Bonding Patterns in Metallophosphonium Ion Complexes".
 - (3) Sandia Corporation 5/80-5/81 \$16,000 "Chemistry of Etching Processes".
- (m) E. PAUL PAPADOPOULOS
- (1) "N-Ethoxycarbonylamidines as starting Materials and Intermediates in the Synthesis of Heterocyclic Compounds," coauthored with W. D. Dean, accepted for publication by the Journal of Heterocyclic Chemistry.
- (n) SU-MOON PARK
- (1) "Photoassisted Electrolysis Applied to Coal Gasification", DOE, \$119,969, in progress.

- (2) "Charge-Transfer Complexes between Polycyclic Carcinogens and DNA or Its Bases", MBS, \$9,660, in progress.
 - (3) "Studies on Surface States of Semiconductor-Electrolyte Junctions", initiated.
- (o) JAMES D. SATTERLEE
- (1) ACS-PRF Type AC; "NMR Studies of . . ." 10,000 June 1, 1979-May 31, 1981.
 - (2) Research Corp. "Hemes Corrins and Cobalt Complexes" \$12,500 June 1, 1979-indefinite.
 - (3) American Heart Assoc. "Chemical Studies of Cardiac Peroxidase" \$38,500 July 1, 1980-June 30, 1982.
 - (4) NIH "Chemical Dynamics of Heme Proteins" Funding pending (Priority score of 172).
- (p) RILEY SCHAEFFER
- Papers accepted for publication:
- (1) Cyclodecane, Cryst. Struct. Comm. (with H. Shenav)
 - (2) Bisthiadiazole, Cryst. Struct. Comm. (with J. Kane)
- Papers completed to be submitted:
- (3) Synthesis and X-Ray Crystallographic Structure of the Benzyl Alcohol Adduct of Titanium(IV) Benzylate (with J. Sims and E. Duesler) supported by the NSF.

(4) Synthesis and X-Ray Crystallographic Structure of
 $\text{Nb}_8\text{O}_{10}(\text{OC}_7\text{H}_7)_2\text{O}$

With Y. Iwata and E. Duesler) supported by the NSF

(5) Research proposal for support of by research program submitted to and accepted by the NSF. Award effective Aug. 15, 1981 for \$47,599.

(6) Research proposal for purchase of a High Field NMR Spectrometer for the Department of Chemistry. Submitted in October, 1981 for \$336,050.

(q) ROBERT E. TAPSCOTT

Funded:

(1) "Stereochemical Studies on Vanadyl(IV) Compounds of Biological Significances," NIH, \$62,000 direct costs for 3 years.

Submitted:

(2) "Calorimetric and Structural Studies of Stereoisomeric Metal Chelates," NSF, \$195,000 total costs.

(3) "Structural and Thermodynamic Studies on Binuclear α, α' -Dihydroxydicarboxylate Complexes," Petroleum Research Fund, \$15,356 direct costs.

(4) "Structure/Enthalpy Relations for Stereoisomeric Chelates," NIH, \$186,673 direct costs.

- (5) "Carbon-13 NMR Chemical Shifts of Diastereotopic Atoms in Complexes," NSF, \$225,000 direct costs.
- (r) DAVID L. VANDER JAGT
- (1) GM 25295-06 "Cellular Functions of Glutathione", \$38,712 D.C.N.I.N. 9/1/80-2/28/81.
- (2) MBS Grant "Enzymology of GSH Requiring Enzymes", \$5,300 D. C. 9/1/80-8/31/81.
- (3) WHO Grant T16/181/M2/59(A) "Parasite-specific Proteases of P. falciparum", \$38,810 D. C. 1/1/81-12/31/81.
- (s) EDWARD. A. WALTERS
- (1) Photoionization mass spectrometry of cluster molecule in molecular beams, sponsored by LANL.
- (2) A study on the environmental impact of underground coal gasification on groundwater in the San Juan Basin of New Mexico. Funding by EPA was decommitted".
6. Activities in learned and profession societies:
- (a) FRITZ ALLEN
- (1) The Electric Dichroism of DNA's of Varying Molecular Weights presented at the National ACS Meeting, Atlanta, GA. March 6, 1981 with William Mickols and Sam Wat.

- (2) Electric Dichroism, Something New & Different, Seminar at Augusta Colleges, Augusta, GA. March 9, 1981.
- (3) High Speed Optical Modulator Construction and Characterization, presented at the 36th Northwest Regional ACS Meeting, Bozeman, Montana, June 18, 1981.
- (4) Kinetics of Hydrogen Selenide Oxidation Under Physiological Conditions, presented at the 37th Southwest Regional Meeting, San Antonio, TX, December 1981.
- (5) Photoelastic Modulation Techniques Applied to Electric Dichroism, presented at the 37th Southwest Regional Meeting, San Antonio, TX, December 1981.
- (6) Electric Dichroic Studies on Different Forms of the Plasmid PBR322 presented at the 37th Southwest Regional Meeting, San Antonio, TX, December 1981 with William Mickols.
- (7) Electric Dichroism of DNA, presented at the 37th Southwest Regional Meeting, San Antonio, December 1981 with Sam Wat and William Mickols.

- (8) Environmental Influences on Bacteriophage T4 Tail Fiber Configuration, presented at the 37th Southwest Regional Meeting, San Antonio, TX, December 1981 with Robert J. Fraatz.
- (b) ROY D. CATON
- Member of the following:
- (1) Member Sigma XI
 - (2) ACS
 - (3) Electrochem. Soc.
- (c) WILLIAM F. COLEMAN
- (1) "Optical Double Resonance Techniques to Measure Vibrational Relaxation," 181st National Meeting of the American Chemical Society, March 29-April 3, 1981, Atlanta, Georgia. Co-author: Y. D. Jones.
 - (2) "Lasers in Chemistry--A Survey," 182nd National Meeting of the American Chemical Society, August 23-28, 1981; New York, NY (invited plenary lecture).
 - (3) Attended both National Meetings of the American Chemical Society (Atlanta, GA in Spring 1981 and New York in Fall of 1981).
 - (4) Served as General Papers Chairman for the Division of Chemical Education at the Atlanta National ACS Meeting.

- (5) Chaired a Symposium on The Teaching of Physical Chemistry (Atlanta ACS Meeting).
 - (6) Participated in a panel discussion on The Applications of Lasers to Chemical Problems (New York ACS Meeting).
 - (7) Served as a member of the Program Committee for the Division of Chemical Education for the American Chemical Society and will assume the role of Chairman of that Committee as of January 1, 1981.
 - (8) Attended an AFOSR sponsored meeting on Chemical Dynamics, November 3-7, 1981 at Kirtland Air Force Base and participated in a round table discussion session on the future of HF/DF experimental and theoretical studies.
- (d) GUIDO H. DAUB
- (1) Presented seminars entitled "Synthesis of Polycyclic Hydrocarbons---Benzo[a]pyrenes labeled with ^{13}C and derivatives, tetrahydrochrysene and arylated derivatives, on 4/23/81 at Harvey Mudd College (Claremont, CA) and on 4/24/81 at California Poly University (Pomona, CA).

- (2) Presented seminars entitled "Synthesis of ^{13}C Labeled, T. W. Whaley, G. H. Daub, R. D. Walker, and D. L. Williams, "Synthesis With Stable Isotopes: Oleic- $1-^{13}\text{C}$ Acid and Triolein- $1',1'',-1''',-^{13}\text{C}_3$ ", J. Labelled Compds. Radiopharm., 18, 5993-1603 (1981).
- (e) RICHARD W. HOLDER
- (1) Invited Seminars: Indiana University, Harvard University, Yale University, Boston University
- (f) ULRICH HOLLSTEIN
- (1) Attended Seventh American Peptide Symposium, Madison, WI, June.
- (2) Attended 28th Congress, International Union of Pure and Applied Chemistry, Vancouver, BC, August.
- (g) WILLIAM M. LITCHMAN
- (1) Attended the meeting of the Society of Applied Spectroscopy, Denver, CO, August, 1981.
- (h) MIRIAM MALM
- (1) Member, International Society of Heterocyclic Chemistry.
- (i) CARY J. MORROW
- Attended meetings of Central New Mexico Section, American Chemical Society.

- (1) "Synthesis of Analogs of Compactin as Potential Inhibitors of Cholesterol Biosynthesis", presented at 9th MBS Symposium, Albuquerque, April 4, 1981.
 - (2) "Synthesis of Analogs of Mevalonic Acid as Potential Inhibitors of Cholesterol Biosynthesis," presented at 9th MBS Symposium, Albuquerque, April 4, 1981.
 - (3) "Enantioselective Ester Hydrolysis Using Porcine Liver Esterase," presented at 37th Southwest Regional Meeting of the American Chemical Society, San Antonio, TX, December 11, 1981 (with Yoland Barber, William K. Wilson and Shawn Baca).
- (j) THOMAS M. NIEMCZYK
- (1) "Determination of Trace Metals in Water Samples by Metastable Transfer Emission Spectroscopy", Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, March 9-13, 1981, Atlantic City, NJ.
 - (2) "Trace Element Analysis in Aqueous Samples by Metastable Transfer Emission Spectroscopy", National Meeting of the American Chemical Society, Aug. 23-28, 1981, New York, NY.

- (3) "Surface Reactions as A Key to Interferences in Flameless Atomic Absorption Spectroscopy", 1981, Federation of Analytical Chemistry and Spectroscopy Societies, Sep. 20-25, 1981, Philadelphia, PA.
 - (4) "Optimization Studies of a Sputtering Atomization-Metastable Transfer Emission Source", Rocky Mountain Conference, August 3-6, 1981, Denver, CO.
 - (5) "Chemistry on a Graphite Surface", Rocky Mountain Conference, August 3-6, 1981, Denver, CO.
 - (6) Member, of the Rocky Mountain Conference Steering Committee, 1981 meeting.
 - (7) Atomic Absorption Symposium Chairman, 1981, Rocky Mountain Conference.
 - (8) American Chemical Society Councilor, Central New Mexico Section.
 - (9) Congressional Science Councilor, Central New Mexico ACS.
- (k) ROBERT T. PAINE
- (1) "Synthesis and Coordination Properties of Carbamylmethylene Phosphonate Ligands," Paper presented at the International Conference on Phosphorus Chemistry, June 1981, Durham, North Carolina.

- (2) "Synthesis and Coordination Properties of Carbamylmethylene Phosphonate Ligands," Paper presented at the Actinide Workshop V, June 1981, Argonne National Laboratory.
- (1) E. PAUL PAPADOPOULOS
- (1) Presented two papers at the 37th Regional Meeting of the American Chemical Society at San Antonio, TX, December 9-11, 1981.
- (M) SU-MOON PARK
- (1) "Studies on Photoanodic Dissolution of n-CdS Electrodes", presented at the 159th Electrochemical Society Mtng, Minneapolis, MN, May 10-15, 1981, J. R. Wilson, Coauthor.
- (2) "Effects of the Electrolyte Concentration on Flat-band Potentials of n-TiO₂ Electrodes", presented at the 159th ECS Mtng, J. R. Wilson, Coauthor.
- (3) "Effects of Several Trace Contaminants on Molten Carbonate Fuel Cells", presented at the 159th ECS Meeting, Coauthor, T. J. O'Brien.
- (4) "Electrochemical Determination of Cation Radical Stabilities of Methylbenzo[a]-pyrenes", presented at the 159th ECS Meeting, Coauthor, D. A. Tryk.

- (5) "Electrochemically Activated Binding of Benzo-[a]pyrene and Other Polycyclic Aromatic Hydrocarbons to DNA", presented at the 159th ECS Meeting, Coauthor, D. A. Tryk.
 - (6) "Electrochemical Oxidations of Aqueous Polysulfide at Carbon Electrodes", presented at the 160th ECS Meeting, Denver, CO, October 11-16, 1981, Coauthor, P. M. Dhooge.
 - (7) "Spectroelectrochemical Studies of Diphenylamine Oxidation", presented at the 160th ECS Meeting, Coauthor, D. W. Uhland.
- (N) JAMES D. SATTERLEE
- (1) 22nd Experimental NMR Conf., Asilomar, CA; April 1981.
 - (2) Poster Presentation Great Lakes Regional ACS Meeting, Dayton, OH; June 1981.
 - (11) Scientific Research Talk Site Visit Presentation, NIH Review Panel, Purdue University, March 1981.
- (o) RILEY SCHAEFFER
- (1) Attended Atlanta meeting of the American Chemical Society.
 - (2) Councilor of Inorganic Division, ACS.
 - (3) Executive Committee Inorganic Division, ACS.

- (4) Council Meeting of ACS.
- (5) Attended six meetings of the National Science Foundation Advisory Council and Task Group meetings.

(p) ROBERT E. TAPSCOTT

Papers presented:

- (1) R. B. Ortega, R. E. Tapscott, and E. N. Duesler, "Structural Studies of Binuclear α, α' -Dihydroxydicarboxylate Complexes," 9th Annual National MBS Symposium, Albuquerque, NM, April 3-6, 1981.
- (2) T. M. Anaya and R. E. Tapscott, "Kinetic Studies of Stereoselective Vanadyl(IV) Tartrate Reactions," 9th Annual National MBS Symposium, Albuquerque, NM, April 3-6, 1981.
- (3) R. E. Tapscott, E. N. Duesler, and R. B. Ortega, "EPR of Binuclear Vanadyl(IV) Complexes," 4th International EPR Symposium, Denver, CO, Aug. 3-6, 1981.

Offices held, meetings attended:

- (4) Treasurer and Secretary-elect of UNM Chapter of Sigma Xi.
- (5) Representative to the Rocky Mountain Regional Division of the American Chemical Society.

(6) Technical Program Chairman for 9th and 10th Minority Biomedical Support Symposia, Albuquerque, NM, and Organizer of the Metalloproteins Symposium at the 10th meeting, 1982.

(7) Attended Southwest Inorganic Liaison Meeting at Boulder, CO., 1981.

(q) DAVID L. VANDER JAGT

Papers presented at the following meetings:

(1) ASBC Meeting 5/30-6/4, St. Louis, MO.

(2) Meeting in Puerto Rico 11/16-11/22, San Juan, PR.

(r) EDWARD A. WALTERS

Papers presented:

(1) "Molecular Beam Photoionization Study of $(H_2S)_n$, $n = 1/7$, and H_2S Mixed Clusters", National Meeting of the American Chemical Society, New York, NY, Aug. 24, 1981.

Meetings attended:

(2) 181st National Meeting, American Chemical Society, Atlanta, GA, March 28-April 5, 1981.

(3) 182nd National Meeting, American Chemical Society, New York, NY, Aug. 21-30, 1981.

Offices held:

(1) American Chemical Society, Councilor of the Central New Mexico Section.

- (2) Member, Divisional Activities Committee, American Chemical Society.

7. Other professional activities:

(a) ROY D. CATON

- (1) Chemistry demonstrations, Albuquerque Public Schools: Osuna Elementary, five 5th grade classes, Nov. 24, 1981; Wherry Elementary, four 5th grade classes, Dec. 3, 1981.
- (2) Reviewed research proposal for National Science Foundation.

(b) WILLIAM F. COLEMAN

Seminars presented at other universities:

- (1) "The Role of Chromium in Biological Systems," Tougaloo College, March 18, 1981.
- (2) "Applications of Lasers to Fundamental Problems in Photoelectrochemistry," Tougaloo College, March 19, 1981.
- (3) "Nonparameterized Molecular Orbital Calculations on Palladium Sulfur Compounds," Jackson State University, March 19, 1982.
- (4) "Energy Transfer in Complex Ion Systems," University of New Orleans, February 14, 1981.

- (5) "Some Classic Problems in the Field of Inorganic Photochemistry," Boston University, October 28, 1981.

High school and public lectures (topic, Lasers in Chemistry):

- (1) Roswell High School (5 presentations)
- (2) Goddard High School (5 presentations)
- (3) Carlsbad High School (6 presentations)
- (4) New Mexico Junior College (2 presentations)
- (5) NMSU Branch, Carlsbad (2 presentations)
- (6) Hobbs High School (4 presentations)
- (7) Santa Rosa High School (3 presentations)

A less technical laser discussion and demonstration was also presented to a public audience in Hobbs (December 1, 1981).

(c) GUIDO H. DAUB

- (1) Visiting Staff Member (short term), Groups LS-5 and LS-6, Los Alamos National Laboratory.

(d) LORRAINE DECK

- (1) Taught classes concerning Chemistry for students preparing for the MEAT exams.

(e) RICHARD W. HOLDER

- (1) Laboratory research carried out at Indiana University in conjunction with Professor J. J. Gajewski: "Secondary Deuterium Isotope Effects in the Thermal [1.5]Sigmatropic Carbon Rearrangement of Spirocyclo[4.4]nona-1,3-diene"

(f) ULRICH HOLLSTEIN

- (1) Visiting Staff Member, LANL.

Submitted the following proposals:

- (1) NIH, new, "Permanently Intercalated Actinomycin". Request for \$107,567 direct costs.
- (2) NIH, new, "Synthesis and Studies of Beta-Lactamase Inactivators". Request for \$112,517 direct costs.
- (3) NIH (MBS), continuation, "Actinomycin Analogs with Long Chain Modified D-Valine" (see item 5).
- (4) NSF, major instrument program, "Purchase of a Gas-chromatograph-Mass Spectrometer System". Four other faculty were major contributors to this proposal. The proposal was funded (\$175,000; 50% NSF/ 50% UNM).
- (5) NSF, major instrument program, "Acquisition of a High Field NMR Spectrometer". I am one of eight contributors. Request: \$350,000.

- (6) Participated in NSF-funded URP (Undergraduate Research Participation) program with one undergraduate during summer. Total grant: \$3500.
- (g) WILLIAM M. LITCHMAN
Some in other fields.
- (h) CARY J. MORROW
- (1) "Resolution of 3-Hydroxy Esters with Porcine Liver Esterase," patent disclosure (UNM 174) to University Patents Inc.
 - (2) Consultant to Federal Public Defenders Office.
 - (3) Consultant to Addison-Wesley Publishing Co.
 - (4) Consultant to SWRCSE relative to "Chemistry magic" shows (presented demonstrations to several groups).
 - (5) Regional Science Fair Judge.
- (i) THOMAS M. NIEMCZYK
- (1) Consultant, Los Alamos National Laboratory, Group AP-4.
 - (2) Consultant, Duel and Associates, Albuquerque, NM.
- (j) ROBERT T. PAINE
- (1) "Formation of Metallophosphonium Ion Complexes," Northern Arizona University, March 24, 1981.
 - (2) "Phosphorus Ligands-From Carbenes to Nuclear Waste," Texas Tech University, November 11, 1981.

Research in progress:

(3) Multifunctional Coordination Properties of Phosphine Ligands

Phosphine ligands have been designed which contain more than one potential site of reactivity toward various nucleophilic and electrophilic reagents. The multifunctional reactivity patterns of aminophosphines and oxazaphospholidines have attracted our attention. These P(III) ligands have been observed to provide convenient sources for unusual dicoordinate phosphonium ions $(R_2N)_2P^+$. These reagents have been found to stabilize organometallic fragments and promote the formation of unique metal clusters. The spectroscopic and structural properties of metallophosphonium ion complexes suggest that phosphonium ions are related to carbene and SO_2 ligands and comparative ligand studies are in progress. The reactions of multifunctional phosphine ligands with small molecules, CO_2 , COS , CS_2 , SO_2 , are under study. Uncoordinated aminophosphines undergo P-N insertion reactions with CO_2 , COS , and CS_2 and an

unprecedented seven coordinated P(III) complex has been isolated in these studies. The reactions of these small molecules with metal coordinated amino-phosphines are under study.

(4) Immobilization of Phosphorus and Sulfur Ligands

Phosphonate and thioether ligands have been found to be useful extractants for actinide, lanthanide and certain transition metal ions in industrial waste streams. Our research program has been directed toward understanding the basic chemistry of extraction processes. In particular, we have studied the coordination properties of carbamyl-methylenephosphonates under a variety of conditions with transition metal ions and Ln and Ac ions. Unexpected coordination modes found in our structural studies are assisting us in the design of improved extractants. In addition, we have successfully designed methods for binding phosphonates and thioether ligands to SiO_2 and organic resin supports. These materials are presently being examined as practical column packing materials.

(5) Organoaluminum Chemistry

The interactions between organoaluminum species and olefins have been studied in our laboratory for several years. Our primary interest has been to improve the understanding of the Al-olefin interaction and the role of aluminum reagents in Ziegler-Natta and related polymerization schemes. In the course of this work, an unexpected trihapto Al-cyclopentadiene interaction was discovered, and a facile route for polymerization of cyclopentadiene was revealed. The mediation of the polymerization by early transition metals is presently under study.

(6) Matrix Spectroscopy

The characterization of inorganic species which are normally polymeric or extremely reactive by low temperature matrix methods coupled with FT-IR spectroscopy continue to be of interest. We are presently studying the reactions of various fluoride radicals (PF_2 , SiF_2 , CF_3 , CF_2) with sputtered metal substrates in an effort to better understand chemical etching processes.

(k) E. PAUL PAPADOPOULOS

Participated as an ad hoc consultant in a project-site visit (Sep. 27-28, 1981) to evaluate a research proposal to the Minority Biomedical Support Branch of NIH by the York College of the City University of New York.

(l) SU-MOON PARK

- (a) Reviewed papers for Photochem. Photobiol., J. Electroanal. Chem., and J. Electrochem Soc.
- (b) Reviewed proposals for DOE.
- (c) Book review on "Photoelectrochemistry" by Yu.Ya. Gurevich, Yu.V. Pleskov and Z. A. Rotenberg, Plenum Press, New York, 1980, reviewed in Photochem. Photobiol., 33, 783 (1981).

(m) JAMES D. SATTERLEE

- (a) Member, Advisory Committee Purdue University Biochemical Magnetic Resonance Laboratory.
- (b) American Heart Association, Illinois Affiliate, Board Member.
- (c) Radio Interview, WDEK, DeKalb, Illinois - concerning AHA funded research.

(n) RILEY SCHAEFFER

- (a) Member of the Advisory Council of the National Science Foundation.

- (b) Member of steering committee.
 - (c) Attended Council meetings in May and November as well as task group meetings throughout the year.
 - (d) Consultant to U.S. Borax Research Corp.
- (o) ROBERT E. TAPSCOTT
- (a) Participant in the summer, 1981, Biomedical Sciences Program.
 - (b) Invited lecturer at the University of Texas at El Paso.
- (p) E. A. WALTERS
- (a) Visiting Staff Member, Los Alamos National Laboratory.
 - (b) Talks on Coal and Synfuels to chemical engineering class, Sept. 3, 8 1981.
 - (c) Talk on science and theology to "Theology for Breakfast" group, Feb. 26, 1981.
 - (d) Demonstrations at Comanche Elementary School, Feb. 24, 1981.
 - (e) Reviewed two proposals for the Petroleum Research Fund, American Chemical Society.
 - (f) Major review of a project report for the Environmental Protection Agency.

8. Non-teaching university service:

(a) FRITZ ALLEN

- (1) Chair, University Research Allocation Committee.
- (2) Member, Research Policy Committee.
- (3) Member, Library Funding Task Force.
- (4) Member, A&S Promotion Committee.
- (5) Member, Institutional Biosafety Committee.

(b) ROY D. CATON

- (1) Academic Freedom and Tenure Committee.
- (2) Chairman, Chem. Dept. Safety Committee.
- (3) Chairman, Chem. Dept. Curriculum Committee.

(c) WILLIAM F. COLEMAN

Departmental Committee Work:

- (1) Member, Salary Committee Member, 1981.
- (2) Member, Space Committee, 1981.
- (3) Chair, Teaching Evaluation Committee, 1981.
- (4) Member, Graduate Studies Committee, 1981.
- (5) Chair, Undergraduate Recruitment Committee, 1981-1982.
- (6) Director, NSF/URP Program, 1981-83.
- (7) Director, UNM/APS Career Enrichment Center, Summer Science Program, 1981-82.

College of Arts and Sciences Committee:

- (8) Member, Committee on Curriculum and Academic Policy.

University of New Mexico Faculty Senate

- (9) Member, Faculty Senate 1981-82.
- (10) Chair, Long Range Planning Committee, 1981-82.
- (11) Chair, Faculty Senate Task Force on the General College, December 1981-date.

General University Service:

- (12) Member, University of New Mexico/Albuquerque Public Schools Liason Committee, 1981-82, (presented 1 hr. program on the UNM/Career Enrichment Summer Science Program).

Recruiting Activities for the UNM Office of School Relations:

- (13) Participated in an Ambassador's Program in Roswell, Carlsbad, Santa Rosa, and Hobbs.
- (14) Went on a recruiting tour of two-year colleges in the southern part of New Mexico.
- (15) Participated in the Home Visitation Program (6 visits).
- (16) Faculty coordinator for Senior Day.
- (17) Presented a talk on The Role of Chemistry in the Premedical Curriculum at Parent's Day.

Miscellaneous:

- (18) President, UNM Chapter of Phi Kappa Phi.

- (19) Participated in a program on teaching styles for an experimental course being taught by the Dean of Students Office.
- (20) Participated in a variety of intramural programs.
- (d) GUIDO H. DAUB
- (1) Advisor to Chemistry majors and minors.
 - (2) Chairman, Department of Chemistry, 1/1/81-6/30/81.
 - (3) Acting Chairman, Department of Chemistry, 7/1/81-8/7/81.
 - (4) Member, various Chemistry Department Committees.
 - (5) Member, Chemistry Executive Committee (9/1/81-12/31/81).
- (e) LORRAINE DECK
- (1) Department Committees.
- (f) RICHARD W. HOLDER
- (1) Wrote and graded graduate cumulative examination in organic chemistry for Harvard and (in part) Stanford Universities. Secondary faculty advisor of nine graduate students at Harvard.
- (g) ULRICH HOLLSTEIN
- (1) Chairman, Departmental Space Committee.
 - (2) Spokesman, Search Committee for Department Chairman (January, February).

- (3) Member, Departmental Graduate Recruitment Committee (Spring).
 - (4) Member, Departmental Sabbatical Committee (Spring).
 - (5) One of two faculty members to investigate and determine the best available gas chromatograph-mass spectrometer system, to be purchased by the Department of Chemistry (see item 7).
- (h) WILLIAM M. LITCHMAN
- (1) Member, University Committee on Faculty Ethics.
 - (2) Advisor for two student groups.
- (i) MIRIAM MALM
- (1) Coordinator of Chemistry 100.
- (j) JON R. MAPLE
- (1) Graduate Studies Committee.
 - (2) Department of Chemistry Research Advisor.
- (k) DON R. MCLAUGHLIN
- (1) Director, Los Alamos Graduate Center.
 - (2) School Relations Recruitor.
 - (3) Summer Undergraduate Research Program.
- (1) CARY J. MORROW
- (1) A&S Graduate Committee.
 - (2) Chairman, Chemistry Graduate Studies Committee.
 - (3) Chairman, MBS Selection Committee.

- (m) THOMAS M. NIEMCZYK
(1) Member, University Long Range Planning Committee.
- (n) ROBERT T. PAINE
(1) Assistant Chairman, Department of Chemistry.
(2) Chairman, Equipment Committee.
(3) Chairman, External Evaluation Committee.
(4) A-21 Committee.
(5) SURP-BRSG Review Committee
- (o) E. PAUL PAPADOPOULOS
(1) Graduate Studies Committee.
(2) Undergraduate Curriculum and Honors (Spring).
(3) Library (Fall).
- (p) RILEY SCHAEFFER
(1) Chairman, Department of Chemistry.
- (q) ROBERT E. TAPSCOTT
(1) Research Advisor for the following completed thesis: D. Marcovich, "Stereochemical Studies on Arsenic(III) and Antimony(III) Dihydroxydicarboxylate Complexes", Ph.D. Dissertation, University of New Mexico, Albuquerque, NM, 1981.
(2) Chairman and member of Arts and Science's Computer Use and Allocations Committee.

(3) Member of departmental Graduate Selection Committee.

(4) Member of UNM Bicycling Advisory Committee.

(r) DAVID L. VANDER JAGT

(1) Chemistry Department Graduate Studies Committee.

(2) Chemistry Department Graduate Student Selection.

(3) SOM Research Allocations.

(4) SOM Safety.

(5) SOM Tenure Review.

(6) CRTC Research.

(s) EDWARD A. WALTERS

(1) Chairman, Graduate Student Selection and Recruitment Committee.

(2) Department Planning Committee.

(3) Department Executive Committee.

(4) Chairman Search Committee.

(5) Salary Committee.

9. Public service:

(a) ROY D. CATON

(1) Board member of the University Heights Association.

(b) WILLIAM F. COLEMAN

(1) Member, Albuquerque Public Schools Career Enrichment Center Advisory Board.

- (2) Chairman, La Luz Land Owners Association Recreation Committee.
 - (3) Northwest Regional Science Fair Project Consultant.
 - (4) Northwest Regional Science Fair Judge.
- (c) WILLIAM M. LITCHMAN
- (1) Many.
- (d) DON R. MCLAUGHLIN
- (1) Cubmaster, Packs 5,201.
- (e) JAMES D. SATTERLEE
- (1) American Heart Association.
- (f) R. E. TAPSCOTT
- (1) Treasurer of Cleveland Middle School Computer Booster's Club.
 - (2) Member of Cleveland Middle School Parent Advisory Committee.
 - (3) Program Chairman and Newsletter Editor of New Mexico Wheelmen.
 - (4) District Legislative Coordinator for League of American Wheelmen.
 - (5) Work with the Greater Albuquerque Bicycling Advisory Committee in an advisory capacity.
 - (6) Instructor in training in the League of American Wheelmen Effective Cycling Program.

(g) EDWARD A. WALTERS

- (1) Active in St. Luke's Lutheran Church.
- (2) Soccer referee for AYSO (certified) and USSF (certified, level 2); timer and stroke-and-turn judge, high school swim meets; active in Parents of Adopted Children Group.

Appendix I

Typical Program of Studies for Five-Year BS/MS in Chemistry
 (Some of the Allowed Alternatives are Shown in Parentheses)

Fall		First Year		Spring	
Chem 131L (121L)	4	Chem 132L		5	
Math 162 (172)	4	(5) Math 163 (173)		4	(5)
Group Requirement	3	Group Requirement		3	
Group Requirement	3	Group Requirement		3	
Group Requirement	3	Group Requirement		3	(16)
	<u>17</u>			<u>18</u>	
		(18)			

Second Year

Chem 301 (307)	3	Chem 302 (308)		3	
Chem 309L	2	Chem 310L		2	
Chem 201 (new)	1	English 219		3	
Math 264	4	(0) Physics 161		3	
Physics 160	3	Physics 163L		1	
Group Requirement	3	Math 314 (321)		3	
(Group Requirement)	<u>16</u>	Group Requirement		<u>3</u>	
(Elective)				<u>18</u>	
		(3)			
		(18)			

Third Year

Chem 311	4	Chem 312		4	
Chem 331L	2	Chem 332L		2	
Math 316	3	Group Requirement		3	
Physics 262	3	Group Requirement		3	
Physics 264L	1	Group Requirement		3	
Group Requirement	<u>3</u>	Chem 625-6		<u>1</u>	
	<u>16</u>			<u>16</u>	

Summer Chem 496 6

Fourth Year

Chem 431	3	Chem (Graduate)		3	
Chem 454L	4	Chem (Graduate)		3	

Chem (Graduate)	3	Chem (Graduate)	3
Chem 495	2	Chem 625 (Div.)	1
Group Requirement	3	Chem 496	4
Elective	3	Group Requirement	3
	<u>18</u>		<u>17</u>

Summer Chem 650 6

Fifth Year

Chem (Graduate)	3	Chem 625 (Div.)	1
Chem 625 (Div.)	1	Chem 599	6
Chem 650	5		7
	<u>9</u>		

Major: 131L or 121L (4); 132L(5); 201(1); 307 or 301(3); 309L(2); 308 or 302 (3); 310L(2); 311(4); 331L(2); 312(4); 332L(2); 495-496(6); 431(3); 454L(4) = 45.

Minor: Physics 160(3); 161(3); 163L(1); 262(3); 264L(1). Math 162(4); 163(4); 264(4); Two courses selected from 311(3); 314 [or 321] (3); 316(3). English 219(3) = 32 [Alternatively, Math 172(5); 173(5) may replace 162, 163, 264. Total = 30]

Group Requirements: 42 hours (14 three-hour courses) plus English 219(3), Math (6), and Physics (6) from the minor.

Courses to complete 128 hour requirement: Chem 495-496(6); Elective (3)=9. $45 + 32 + 42 + 9 = 128$. [If Math 172(5), 173(5) is chosen, two additional hours of electives will be needed.]

Masters: Fifteen (15) hours of graduate level lecture courses of which at least twelve (12) are numbered above 500; Chem 625-006(1); Chem 625-divisional(3); Chem 650 (5-11) = 24-30. Chem 599(6).

Alternate Typical Program of Studies for Five-Year BS/MS in Chemistry

Fall		First Year		Spring
Chem 121L	4	Chem 122L	4	
Math 162 (172)	4 (5)	Math 163 (173)	4	(5)
Group Requirement	3	Group Requirement	3	
Group Requirement	3	Group Requirement	3	
Group Requirement	3	Group Requirement	3	(16)
	<u>17</u> (18)		<u>17</u>	

Second Year

Chem 301 (307)	3	Chem 302 (308)	3
Chem 303L	1	Chem 304L	1
Chem 201 (new)	1	English 219	3
Chem 253L	4	Physics 161	3
Math 264	4 (0)	Physics 163L	1
Physics 160	3	Math 314 (321)	3
(Group Requirement)	<u>16</u> (3)	Group Requirement	<u>3</u>
(Group Requirement)	(3)		<u>17</u>
	(18)		

Third Year

Chem 311	4	Chem 312	4
Chem 331L	2	Chem 332L	2
Math 316	3	Chem 310	2
Physics 262	3	Chem 625-6	1
Physics 264L	1	Group Requirement	3
Group Requirement	<u>3</u>	Group Requirement	<u>3</u>
	<u>16</u>	Group Requirement	<u>3</u>
			<u>18</u>

Summer Chem 496 6

Fourth Year

Chem 431	3	Chem (Graduate)	3
Chem 454L	4	Chem (Graduate)	3
Chem (Graduate)	3	Chem (Graduate)	3
Chem 495	2	Chem 625 (Div.)	1
Group Requirement	3	Chem 496	4
Group Requirement	<u>3</u>	Group Requirement	<u>3</u>
	<u>18</u>	(Elective)	<u>17</u>
			(0)
			(3)
			(17)

Summer Chem 650 6

Fifth Year

Chem (Graduate)	3	Chem 625 (Div.)	1
Chem 625 (Div.)	1	Chem 599	<u>6</u>
Chem 650	<u>5</u>		<u>7</u>
	9		

Major: 121L(4); 122L(4); 201(1); 253L(4); 301 or 307(3);
303L(1); 302 or 308(3); 304L(1); 310L(2); 311(4);
331L(2); 312(4); 332L(2); 431(3); 454L(4); 495-496(6)=
48.

Minor: Physics 160(3); 161(3); 163L(1); 262(3); 264L(1). Math
162(4); 163(4); 264(4); Two courses selected from 311(3);
314 [or 321] (3); 316(3). English 219(3) = 32 [Alterna-
tively, Math 172(5); 173(5) may replace 162, 163, 264.
Total = 30]

Group Requirements: 42 hours (14 three-hour courses) plus Eng-
lish 219(3), Math (6), and Physics (6) from the minor.

Courses to complete 128 hour requirement: Chem 495-496(6) = 6.
 $48 + 32 + 42 + 6 = 128$. [If Math 172(5), 173(5) is
chosen, two hours of electives will be needed.]

Masters: Fifteen (15) hours of graduate level lecture courses of
which at least twelve (12) are numbered above 500; Chem
625-006(1); Chem 625-divisional(3); Chem 650 (5-11) =
24-30. Chem 599(6).

Appendix II

Applications Received for Graduate Study in Chemistry

1981-1982

State	Applied	Enrolled	State	Applied	Enrolled
Alabama	3	2	Arizona	1	1
California	2	1	Colorado	4	2
District of Columbia	1	0	Georgia	1	1
Idaho	1	0	Illinois	3	2
Iowa	1	0	Kansas	1	0
Michigan	3	2	Mississippi	3	2
Missouri	1	1	New Jersey	1	0
New Mexico	5	2	New York	1	0
North Carolina	1	0	North Dakota	1	0
Ohio	2	0	Pennsylvania	3	0
Texas	1	1	Virginia	1	1
Washington	2	1	Wisconsin	1	1
Canada	1	0	China	3	1
India	4	0	Iran	3	0
Korea	2	0	Libya	1	0
Pakistan	3	2	Poland	2	0
Taiwan	3	0			
TOTALS				66	23

Appendix III

GRADUATE PROGRAM

The information presented here is intended to be a detailed description of the requirements for advanced degrees in the Department of Chemistry at The University of New Mexico. More general University requirements may be found in the current Graduate School Bulletin. Below is an outline of degree requirements and the order in which a student making normal progress may be expected to complete them. Immediately following that is a more detailed description of particular items in the list of requirements.

Master of Science Degree

Plan I

Year I

Proficiency requirement

Course work (approximately three 3-credit courses per semester).

Selection of research director and initiation of research project.

Appointment of Committee on Studies.

Cumulative Examinations.

Year II

Course work completion
 Completion of research
 Completion of cumulative examinations.
 Preparation and submission of thesis
 Research Seminar
 Oral defense of thesis.

Plan II

Year I

Proficiency requirement
 Course work (approximately three 3-credit courses per semester).
 Selection of advisor
 Appointment of Committee on Studies
 Cumulative Examinations

Year II

Course work completion
 Completion of Cumulative Examinations
 Research proposal, paper, or educational aid.

Doctor of Philosophy Degree

Year I

Proficiency requirement.

Course work (approximately three 3-credit courses per semester).

Selection of research director and dissertation project.

Appointment of Committee on Studies

Initiation of dissertation research

Cumulative Examinations

Year II

Course work completion

Cumulative Examinations

Research proposal

Dissertation research

Year III

Dissertation research

Completion of Cumulative Examinations

Year IV

Completion of Dissertation research

Preparation and submission of dissertation

Research seminar

Oral defense of dissertation

Proficiency Requirement

The proficiency Examinations are a set of five exams, one in each of the following areas of chemistry: analytical, biological, inorganic, organic, and physical, which test the preparation

of graduate student at the bachelor level. These exams are the American Chemical Society standardized graduate level examinations (or equivalent) in each of the areas; each exam is about two hours in length. Satisfactory performance at this level must be demonstrated prior to admission to a degree program. For the M.S. degree this means a rank in the 70th percentile or above on three of the five exams and for the Ph.D. a rank in the 70th percentile or above on four of the five exams. For both degrees the student must pass the exam in his or her area of concentration and the exam in physical chemistry if that is not the area of concentration.

The Proficiency Examinations are given three times per year: in August, during the week preceding the beginning of the Fall Semester's classes, in January during the week preceding the Spring Semester's classes, and in May after the end of the Spring Semester final examination period. New graduate students must take at least four of the five exams upon entrance into the Graduate Program: August for students entering in the Fall, or January for students entering the program in the Spring semester. Any exams which were not passed in this initial attempt must be passed by the end of two regular semesters of graduate study. In other words, a student who enters the program in August must satisfy the Proficiency requirement not later than the following May. A student who joins the program in January has his/her

second attempt at the exams in May but the third attempt is not until the following January. At the advisement session following the student's initial attempt to pass the Proficiency Exams the student and the Graduate Studies Committee will develop a course of study designed to aid the student in completing the Proficiency requirement. Students who perform very poorly on any of the Proficiency Examinations may be required by the Graduate Studies Committee to take a course which should aid in removing the deficiency but which carries no graduate credit.

A student who has not passed the required 3, or 4 Proficiency Examinations within the allowed three attempts will generally not be permitted to continue work toward an M.S. or a Ph.D. Degree, respectively. Cases involving unusually inadequate preparation at the undergraduate level may be considered separately only if serious effort and progress on the part of the student are evidenced by just one Proficiency Examination left to pass, after a third attempt. In such a case, the Graduate Studies Committee will consider a well-substantiated petition to grant the student one additional attempt at one Proficiency Examination the next time the examinations are offered. A student who uses a fourth attempt at an exam to meet the Proficiency Requirement of Masters degree program will be considered

a terminal Masters student. Refusal by a student to take the recommended courses for removing deficiencies will result in denial of a petition for an extra attempt at a proficiency exam.

A student who interrupts his/her graduate work for two calendar years or more, before acceptance to candidacy, will be required to repeat the Proficiency Examinations.

Cumulative Examinations:

The purpose of the cumulative examinations is to help the students develop a thorough general knowledge of their chosen field and a familiarity with modern advances in it as described in current chemical literature.

A total of eight cumulative examinations are given in each division each year: early in September, October, November, December, February, March, April, and May. The dates of the examinations are set by the Graduate Studies Committee and announced at the beginning of the Fall Semester. All students begin the cume sequence at the beginning of their second semester in Graduate School. On a given examination day, each participating student is given copies of the examinations in all areas and is expected to answer one of them in a period of two hours

These examinations are unannounced topics and no specific preparation can be recommended. However, the importance of a strong background in the student's field, familiarity with current literature and active participation in the seminar program cannot be overemphasized. Once a student begins taking the cumulative examinations they will be required to continue taking them each time they are offered until the required number has been passed. In general, a student will be expected to pass two thirds of the cumulative examinations in his/her major field. However, for students engaged in interdisciplinary research, specific alternative requirements may be imposed by the student's Committee on Studies.

The minimum rate of passing for Ph.D. candidates (including those who already have a M.S. Degree) is 1 of the first 8 examinations attempted, 3 of the first 14, and 6 out of a maximum of 20. For M.S. candidates, it is correspondingly 1 out of 8 and 3 out of 14.

The faculty member who wrote each cumulative examination also grades it and is responsible for notifying the executive secretary of the Graduate Studies Committee about the results within a week following the examination. Cumes are graded on a Pass (P) or Fail (F) basis. Students are permitted to review their graded examinations in the office of the Administrative Assistant.

Research Proposal:

The research proposal is a comprehensive presentation of an independently generated problem of current interest given in written and oral form to the student's Committee on Studies. This should be a thorough and documented work defining a problem and offering a viable method for solving it. It is to consist of a paper describing the problem in detail, including references to significant work and the method to be used to solve the problem. Requisite instrumentation, experimental approaches, theoretical aspects, synthetic routes and limitations must all be included. Copies of the paper will be distributed to members of the Committee on Studies at least one week prior to the date of the oral presentation. A copy must also be given to the administrative assistant in case persons not on the Committee wish to read it. It is important that the research proposal not overlap with the student's dissertation research. Sample proposals are available in the departmental office.

The defense of the Research Proposal represents the oral examination which is traditionally a requirement for the Ph.D. Degree in Chemistry. It is a test of a student's overall understanding of chemistry based on examples suggested by the written Research Proposal. The defense will begin with a short, usually

fifteen to thirty minutes, oral summary of the proposed research by the student. This presentation as well as a brief discussion period immediately following it, is open to any students who wish to attend. Following the discussion period all students will be asked to leave as the examination by the Committee-on-Studies is open only to faculty members. Any faculty member may attend and participate in the examination. It is the responsibility of the student's research director to insure that the defense is appropriately publicized.

The Research Proposal along with the Cumulative Examinations comprise the Doctoral Comprehensive Examination required of all doctoral students. As such it must be successfully passed prior to the end of the sixth semester of graduate school and must be attempted during or prior to the fifth semester of graduate school. Should a student's performance be judged unsatisfactory by the Committee-on-Studies, he/she will be required to present a revised or new research proposal within a period of 6 months. A second failure will generally prevent the student from continuing for the Ph.D. Degree. At the recommendation of his/her Committee-on-Studies, however, the faculty will consider a petition by the student that he/she be granted a third attempt.

In case of a Plan II, M.S. Degree candidate, at the recommendation of the student's Committee-on-Studies, he/she may choose among the presentation of a research proposal, a research paper, an education survey, etc.

Appendix IV

Grants Active During 1981-82

281-278-1xx	Open	Colo. Coll.	2,085
281-632-1xx	Open	AmCy	2,750
281-537-1xx	Open	ResCorp	6,000
281-040-1xx	Open	SAC-P	500
281-798-1xz	Open	ResCorp	7,185
281-066-1xx	1-31-83	NSF	87,000
283-008-1xx	3-31-83	NSF	7,200
281-523-2xx	10-1-83	Kotobu	12,604
281-009-2xx	5-14-83	Sandia	17,000
281-827-2xx	5-31-83	DOE	64,033
281-049-1xx	7-1-83	DOE	119,969
281-078-1xx	1-31-83	NSF	47,599
281-774-1xx	9-30-82	USAF	107,275
281-057-1xx	6-30-82	ACS	10,000
281-080-2xx	9-30-82	Sandia	29,000
281-113-1xx	8-31-82	Sandia	5,197
281-824-3xx	8-31-82	HEW	34,467
281-009-1xx	5-14-82	Sandia	16,000
281-023-1xx	8-31-82	ACS	15,000

281-827-1xx	5-31-82	DOE	140,718
281-074-1xx	9-30-82	AMHA	14,883
282-611-1xx	9-31-82	MBS	12,578
282-618-1xx	9-31-82	MBS	20,783
282-628-1xx	9-31-82	MBS	14,553
282-624-1xx	9-31-82	MBS	13,772
282-631-1xx	9-31-82	MBS	18,952
282-636-1xx	9-31-82	MBS	12,515
282-643-1xx	9-31-82	MBS	20,063
282-633-1xx	9-31-82	MBS	13,020
282-635-1xx	9-31-82	MBS	12,540
281-080-3xx	9-30-82	Sandia	29,000
281-284-2xx	8-31-81	HEW	32,938
281-633-1xx	8-31-81	ACS	30,000
281-764-3xx	9-30-81	LASL	17,982
283-503-397	12-31-81	NSF	58,000
281-871-2xx	12-31-81	HEW	37,236
281-871-3xx	12-31-81	HEW	37,586
283-966-1xx	12-31-81	NSF	18,912
281-048-1xx	8-31-81	UoCalif	<u>3,284</u>
			\$1,150,719

Appendix V

Faculty and Staff of the Department of Chemistry

FULL PROFESSORS

CATON, Roy D., Ph.D. 1963, Oregon State University
DAUB, Guido H., Ph.D. 1949, University of Wisconsin
HOLLSTEIN, Ulrich, Ph.D. 1956, University of Amsterdam
SCHAEFFER, Riley, Ph.D. 1949, University of Chicago
TAPSCOTT, Robert E., Ph.D. 1968, University of Illinois
VANDERJAGT, David, Ph.D. 1967, Purdue University

ASSOCIATE PROFESSORS

ALLEN, Fritz S., Ph.D. 1969, University of Illinois
COLEMAN, William F., Ph.D. 1970, Indiana University
HOLDER, Richard W., Ph.D. 1970, Yale University
LITCHMAN, William, Ph.D. 1965, University of Utah
McLAUGHLIN, Donald R., Ph.D. 1965, University of Utah
MORROW, Cary J., Ph.D. 1970, Tulane University
NIEMCZYK, Thomas M., Ph.D., 1972, Michigan State University
PAINÉ, Robert T., Ph.D., 1970, University of Michigan
PAPADOPOULOS, Paul, Ph.D., 1961, University of Kansas
PARK, Su-Moon, Ph.D., 1975, University of Texas, Austin
WALTERS, Edward A., Ph.D. 1966, University of Minnesota

ASSISTANT PROFESSORS

MAPLE, Jon R., Ph.D., 1980, Northern Illinois University

SATTERLEE, James, Ph.D., 1975

INSTRUCTORS

DECK, Lorraine, M.S. 1968, University of New Mexico

MALM, Miriam, M.S. 1964, University of New Mexico

EMERITUS PROFESSORS

KAHN, Milton, Ph.D., 1950, Washington University

ADJUNCT PROFESSORS

ROSENBLATT, Gerd M., Ph.D., 1960, Princeton University

WHALEY, Thomas W., Ph.D.,

FACULTY AND RESEARCH ASSOCIATES

GARGALLO, Maria Fe, Ph.D., 1976, Sevilla, Spain

O'NEILL, William M., M.S., 1937, University of Cincinnati

VISITING FACULTY

FREEMAN, Wade, Ph.D., 1967, University of Michigan

STAFF SCIENTIST

DUESLER, Eileen, Ph.D., 1973, University of California,
Berkeley

CHEMICAL ANALYST

JU, Ruby K.Y., B.S., 1956, University of Illinois

GLASSBLOWER

ROENSCH, Arno, B.S., 1953, Highlands University

ELECTRONICS TECHNICIAN

Miller, Jay III, B.S.E.E. 1982, University of New Mexico
 A.S.E.E.T, NAI, Albuquerque

EXPERIMENTAL TECHNICIAN

GEORGE, Earle, B.S.M.E., 1945, Stevens Tech

STAFF

CERECERES, Carmen, Secretary
 HALLETT, Russell, Storekeeper
 HILTON, Carl, Storekeeper
 JOHNSON, Marlene, Secretary
 KARTCHNER, Wanda, Secretary
 ORR, Mary, Secretary
 ORTIZ, Leonard, Storekeeper
 RUE, Ruth, Secretary
 SCHNOEBELEN, Albert, Administrative Assistant

GRADUATE STUDENTS

		Source
BEESON, H	TA	
BLAHA, S	GA	
BOWEN, S	RA	DOE
CARSON, S	TA	
CAUDLE, L	RA	DOE

847

COOK, J	GA	
CRULL, G	TA	
DALGA, R	GA	
DEAN, W	TA	
DHOOGHE, P	RA	DOE
DUBOIS, D	TA/RA	ACS
ELLIS, D	GA	
FAIRES, L	GA	
FISCHER, G	RA	HEW
FLORENCE, M	TA	
FOWLÉR, J	TA	
FRAATZ, R	GA	
FUTCH, L	TA	
GILL, B	TA	
GROVER, R	RA	MBS
HANIF, M	TA	
HONIG, C	GA	
HOOD, W	TA	
HORNUNG, S	TA	
HUI, E	TA	
HUTCHINS, L	RA	ACS
IWATA, Y	RA	NSF
JESSUP, J	TA	DOE

JIANG, F	TA	
JONES, Y	RA	USAF
KAMYSZ, S	TA	
KOCH, C	TA	
LEBER, P	RA	ACS
LEON, A	TA	
MARTINEZ, D	RA	MBS
MARCOVICH, D	TA	
MATHER, D	TA	
MC NAMARA, W	RA/TA	DOE
MELLA, E	TA	
MICKOLS, W	RA	HEW
NA, H	TA	
NEWMAN, J	TA	
NICKS, C	GA	
NUSSER, B	TA/RA	DOE
NUTTALL, K	GA	
PETRIDOU, J	TA	
PYUN, C	TA/RA	DOE
RAHE, W	GA	
ROBERTS, S	TA/RA	USAF
SEE, F	RA	SANDIA
SHARIFIAN, H	GA	

SILVERMAN, I	TA	
SMITH, P	TA	
STILWELL, D	RA	DOE
THORNBERG, S	TA/RA	SANDIA
TIKKANEN, M	GA	
TURAKHIA, R	RA	HEW
UHLAND, D	TA/RA	DOE
WANGSGAARD, J	TA	
WAT, S	RA	HEW
WILSON, W	RA	HEW
WINSLOW, C	GA	
YANG, S	TA	
YIN, I	TA	
ZAMORA, E	RA	MBS
ZHANG, C	TA	

Appendix VI

REPORT OF GIFTS

The following donations were made to the Department of Chemistry via payroll deductions to the United Fund.

Ann Kahn Memorial Scholarship Fund	\$122.00
Mike Millican Scholarship Fund	150.00
Jesse Riebsomer Scholarship Fund	48.00
Graduate Student Scholarship Fund	780.00
Milton Kahn Lecture Fund	42.00

Outside Contributions to Scholarship Funds.

From Mr. Dean Uhl for the Dean E. Uhl Merit Scholarship Award in Chemistry, \$500 in October 1981.

From Mr. and Mrs. Anthony J. Bernitsky, in December 1981, \$1200 for the Steven A. Bernitsky Memorial Presidential Scholarship awarded to student majoring in Chemistry.

From Emeritus Professor Milton Kahn, donation of \$200 in November 1981 to the Ann Kahn Memorial Fund.

Gifts to the Department.

One-fourth pound mercury donated by Ms. Vamerie Carroll, July 16, 1981.

Check for \$300 donated by Mr. J. Watumull, President of Rama Watumull Fund on February 22, 1982.

A color television set was donated by Mr. Jay D. Miller, III, Electronics Technician in the Department of Chemistry, on May 14, 1982, value approximately \$99.

Dr. Douglas Priore donated \$5.00 to the Milton Kahn Lecture Fund.

Dr. Arthur C. Wahl, the first Milton Kahn Lecturer, donated \$200 to the Milton Kahn Lecture Fund on May 18, 1982.

Dr. Gerald Robbins of the Gulf Oil Chemical Company donated \$35.00 on December 11, 1981.

The Celanese Corporation donated \$500 on September 4, 1981.

REPORT OF THE DEPARTMENT OF COMMUNICATIVE DISORDERS

July 1, 1981 - June 30, 1982

Lloyd E. Lamb, Chairman

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I. Program Achievements

- A. The Department was approved by the Arts and Science faculty to offer a bachelors degree in sign language interpreting and the proposal has been forwarded through channels for further consideration.
- B. The Department has moved into new quarters on the North campus at 901 Vassar, N.E. The entire department, with the exception of our medical school programs, is now housed in the same location. This should lead to better coordination of activities and much better utilization of department resources.
- C. Our graduate enrollment in speech-language pathology and audiology in 1981-82 totaled 49. Seventeen students were awarded masters degrees. Fifteen new students joined the Department this year, 12 in speech-language pathology and 3 in audiology.
- D. The Department was chaired this year by Dr. Richard Hood who served as Acting Chairman in the absence of Dr. Lloyd Lamb who was on sabbatical leave.
- E. We have purchased a new Amplaid Mk IV Auditory Brainstem Response (ABR) Unit for use in our audiology program at BCMC. The unit will be used primarily for screening high risk neonates for hearing loss and neurological disorders, for training audiology students in ABR techniques and for research.

F. Dr. Lloyd Lamb was on sabbatical leave this year and spent the period September, 1981 - February, 1982 at Duke University in Durham, North Carolina. At Duke Dr. Lamb worked in the ABR test program with Dr. Bruce Weber, learning ABR theory and test techniques. He also worked as audiology consultant with ELB Associates, a firm specializing in industrial hearing conservation. Dr. Lamb's work with ELB will enhance our student training in the area of industrial hearing.

II. Non-University Support

- A. The training grant from the U.S. Office of Education was funded for \$85,000 for 1981-82. The grant included complete salary support for Judi Barnes and Patti Elledge-Damico, Clinical Supervisors, partial support for Judy Williams, Clinical Supervisor and complete support for one secretary. It also provided stipends for 10 graduate students as well as funds for travel and other project costs. The grant for next year was approved for \$87,000 but reduced by 48.5% to \$44,180 as part of federal budget cuts. We have been assured that next year the grant will be funded at the full \$87,000. Dr. Lloyd Lamb prepared the grant proposal and is Project Director.
- B. We have received a \$30,000 grant from the American Quarter Horse Association to study horseback riding as a therapeutic tool. The project, titled Therapeutic Horsemanship, is being conducted by Ruth Dismuke, M.S., under supervision of Mary Bolton, Asst. Prof. and Clinical Supervisor. To date, two articles have been published on the project and data from the project have been presented at the 1981 annual meeting of the American Quarter Horse Assn. in Hawaii and

at the International Conference on Human/Companion Animal Bond at the University of Pennsylvania in October, 1981.

III. Faculty Changes

- A. Judi Barnes, M.S., joined the faculty as Instructor and Clinical Supervisor of the Early Intervention Program in July, 1981.
- B. Sumner Blanchard, Ph.D., Assistant Professor, Speech-Language Pathology, was refused a second three year term and was terminated in May, 1982. We are now recruiting a replacement.

IV. Composite of Information Requested on Individual Biographical Supplements

A. Lloyd Lamb

- 1. (a) Attended conference on "Exploring the Relationship Between Conductive Hearing Loss and Auditory Processing/Language Learning Disorders", University of Cincinnati, October, 1981.
- 2. (a) Sabbatical leave, 1981-82
- 4. (a) "Therapeutic Horsemanship." The Quarter Horse Journal, July, 1981, 34-37 (With Ruth Dismuke and Mary Bolton.
- 8. (a) Project Director, U.S.O.E. Grant "Preparation of Professional and Paraprofessional Personnel in Speech and Hearing," \$85,000.
- (b) Prepared grant application for above grant 1982-83. Grant approved and funded.

B. Dolores S. Butt

- 6. (a) Linguistic Society of America
- 8. (a) Director, Elks Cerebral Palsy Program

C. Richard B. Hood

4. (a) Hood, Richard B. and Zimmerman, Harry R.: Computerized Audiometric Programmable Simulator (CAPS). Hearing Aid Journal. 34. pp. 6 and 27. July, 1981.
6. (a) Meetings attended: American Speech-Language Hearing Association Convention and New Mexico Speech-Language-Hearing Association Convention.
7. (a) Two talks to service clubs
8. (a) Acting department chairperson, Fall, 1982.

D. Linda Riensche

2. (a) Mid-South Conference on Communicative Disorders (February) Memphis, Tennessee
- (b) New Mexico Speech and Hearing Association Convention (March) Las Cruces, New Mexico
- (c) American Speech-Language-Hearing Association Convention (November) Los Angeles, California
3. (a) Renewal - University of New Mexico Presidential Recognition Award (For Outstanding Service Beyond the Call of Duty)
5. (a) Master's Thesis: Clauser, P., Auditory Perceptual Abilities of Formerly Misarticulating Children. (Defended in December, 1981)
- (b) Doran, P., Stutterer's and Nonstutterer's Performance on Time-Compressed Sentential Stimuli. (Defended in December, 1981)
- (c) Riensche, L., Wohler, A., and Porch, B., Comprehension of Time-Expanded Speech and Rate Preference in Aphasia. (Submitted for Publication)
- (d) Riensche, L., and Pearson, J., Peer Biases Toward Preschoolers Wearing Hearing Aids. (Research in Progress)
- (e) Riensche, L., Lincoln, K., Thuman, P., and Lamb, L., Geriatrics' Performance on a Battery of Central Auditory Measures. (In Progress)

6. (a) Doran, P., and Riensche, L., "Stutterers' and Nonstutterers' Central Auditory Abilities as Measured by Time-Compressed Speech." Paper presented to the Mid-South Conference on Communicative Disorders in February, 1981 (Memphis).
 - (b) Riensche, L., and Slate, N., "Performance of Teenagers Presented Time-Compressed Sentential Stimuli." Paper presented to the American Speech-Language-Hearing Association in November, 1981 (Los Angeles).
 - (c) Lass, N.J., Riensche, L., and Patterson, K., "Application of Time-Altered Speech in Speech-Language Pathology and Audiology." Mini-seminar presented to the American Speech-Language-Hearing Association in November, 1981 (Los Angeles).
 - (d) Co-Editor of the New Mexico Speech-Language-Hearing Association Journal.
8. (a) Arts and Sciences Graduate Committee
 - (b) Chairperson, Student Review Committee
 - (c) Chairperson, Scholarship Committee
 - (d) Chairperson, Research Field Study Review Committee
 - (e) Curriculum Committee

E. Phyllis Wilcox

1. (a) Six units/graduate credit (4.0) National Consortium for Programs for the Training of Sign Language Interpreters, University of Tennessee, Summer, 1981.
 - (b) Professional interpreting certification evaluation: Reverse Skills Certificate awarded by the National Registry of Interpreters for the Deaf, 1981-1985.
4. (a) "Auditory Cloze Procedure as a Predictor of Interpreting Success: A Pilot Study", submitted in December, 1981 to American Annals of the Deaf.
5. (a) Sign language consultant: "Silent Feelings", proposal to Department of Education, Handicapped Media Services and Captioned Films Programs.

- 6. (a) Representative: Regional Study Group - Professional Self-Study Project, American Speech-Language-Hearing Association, Dallas, Texas, April, 1981.
- (b) National Advisory Board: Interpreter Training Academic Certificate Program, Southwest Collegiate Institute for the Deaf, Big Spring, Texas, 1981.
- (c) President: New Mexico Registry of Interpreters for the Deaf, 1980-1982.
- (d) Chairperson: Legal Terminology/Sign-to-Voice Workshop, for professional interpreters, Albuquerque, New Mexico, November, 1981.
- 7. (a) Certificate of Nobility: Conferred by Secretary of State Shirley Hooper for recognition of special services to future generations of New Mexicans.
- (b) Performed songs on "Children's Christmas Special" with Kathleen McVickers of KNME television station.
- (c) Coordinator of third annual "Sign Fest", Rodey Theatre, University of New Mexico, May, 1981.
- (d) Vice President: Mayor's Commission on the Handicapped, Albuquerque, New Mexico.
- (e) Presidential Recognition Award, University of New Mexico, 1981.
- 8. (a) Designed and submitted to the University a Bachelor of Science Degree in Sign Language Interpreting proposal, fall of 1981.
- (b) Supervisor: Sign language instructors under Continuing Education and Community College Division, credit and non-credit classes.
- (c) Supervisor: Sign Language practicum students in the Albuquerque Public Schools system.

THE REPORT OF THE DEPARTMENT OF ECONOMICS
July 1, 1981 - June 30, 1982
Alfred L. Parker, Chairman

I. General Departmental Information

The decline in research monies available to the social sciences has impacted in several significant ways on the Department of Economics. Sponsored research funded during fiscal year 1981-82 declined to \$194,826 from \$977,210 during the 1980-81 fiscal year. This decline is largely a reflection of significant cuts in research funds available from NSF, DOE, EPA and the Los Alamos National Laboratories.

In spite of efforts to find alternative sources of funding, release time money has been significantly reduced thus limiting the number of part-time faculty that could be hired and the number of PA's and special TA's that could be funded.

Intern programs for graduate students developed over the past year with Public Service Company of New Mexico and Mountain Bell Telephone Company have helped to maintain an adequate level of support for graduate student. A new intern program with the New Mexico Public Service Commission to be available for the first time during the 1982-83 academic year will provide an additional research assistantship for a qualified graduate student.

Major research programs under the sponsorship of the John Muir Institute and the Lincoln Institute of Land Policy are currently being pursued. Success in receiving support for these programs will contribute to our ability to maintain our research and graduate programs at their current levels.

In spite of funding cutbacks graduate enrollment has not declined although the funding problems outlined above have contributed to a perceptible decline in the overall quality of the graduate enrollment (see table 1). This problem is associated with the inability to offer teaching and/or research assistantships in a timely fashion. By the time we become confident that funding for "special" TA's or RA's is available the outstanding candidates for these positions have accepted similar positions at other institutions. We are therefore forced (in order to staff lab or discussion sections for Econ 200 and Econ 201) to provide financial assistance to applicants that are less well qualified for graduate work. This is not a new problem but the problem has been aggravated by the decline in the availability of research money.

After seven (7) consecutive semesters (fall 1977 through fall 1980) in which student enrollment increased, enrollment in both the fall and spring semesters of 1981-82 decreased relative to enrollment in the same semesters during the 1980-81 academic year (-8.1% in the fall semester and -7.6% in the spring semester). See table 2. This decline in enrollment appears to be a temporary phenomenon resulting from a reduction in the number of 300 level courses offered and a failure to actively recruit undergraduate majors. The decline is also reflected in the decline in economics majors experienced in the spring semester of 1982 (See table 3).

During the 1982-83 academic year an active program designed to recruit students into the undergraduate program will be

TABLE 1
GRADUATE STUDENT
ENROLLMENT

<u>FALL</u>	<u>ENROLLMENT</u>	<u>SPRING</u>	<u>ENROLLMENT</u>
1974	50	1975	51
1975	62	1976	59
1976	49	1977	42
1977	35	1978	37
1978	37	1979	41
1979	50	1980	51
1980	54	1981	53
1981	59	1982	51

Table 2

ECONOMICS DEPARTMENT ENROLLMENT FIGURES (STUDENT ENROLLMENT)

	Fall 1976-77	Fall 1977-78	Fall 1978-79	Fall 1979-80	Fall 1980-81	Fall 1981-82
CON 100	-	-	-	(1) 63	(1) 68	(1) 60
101	(2) 241	(2) 269	(2) 228	(2) 196	(2) 254	(2) 207
200	(5) 572	(5) 755	(4) 690	(6) 816	(6) 859	(7) 788
201	(3) 304	(3) 435	(4) 480	(7) 549	(6) 529	(6) 513
239	-	-	-	-	(1) 12	-
212	-	-	-	-	-	(1) 14
Total 100 and 200 level Courses	(10) 1117	(10) 1459	(11) 1412	(16) 1624	(16) 1722	(17) 1582
CON 300	(3) 189	(6) 222	(3) 236	(3) 245	(4) 304	(5) 309
303	(2) 86	(2) 81	(3) 90	(4) 109	(4) 102	(4) 83
315	(2) 126	(1) 154	(2) 229	(2) 221	(2) 289	(3) 265
Other 300 ⁺ and 400 level Courses	(17) 289	(19) 331	(21) 365	(18) 405	(16) 407	(17) 326
CON 500-699	(11) 74	(7) 39	(9) 50	(11) 77	(10) 87	(24) 109
TOTAL	1881	2286 (+21.5%)	2382 (+4.2%)	2681 (+12.6%)	2911 (+8.6%)	2674 (-8.1%)
	Spring 1976-77	Spring 1977-78	Spring 1978-79	Spring 1979-80	Spring 1980-81	Spring 1981-82
CON 100	-	-	-	(1) 53	(1) 40	(1) 20
101	(2) 234	(1) 120	(1) 124	(1) 173	(1) 139	(1) 137
200	(3) 537	(5) 657	(6) 737	(6) 807	(6) 896	(6) 826
201	(5) 435	(5) 419	(6) 490	(5) 492	(6) 512	(6) 487
Total 100 and 200 level Courses***	(10) 1206	(11) 1196	(13) 1351	(15) 1566	(14) 1587	(14) 1470
CON 300	(3) 178	(3) 197	(4) 216	(4) 269	(5) 260	(5) 253
303	(2) 64	(4) 115	(3) 95	(3) 89	(5) 121	(4) 96
315	(1) 131	(2) 190	(3) 251	(2) 248	(3) 241	(3) 262
Other 300 ⁺ and 400 level Courses	(17) 322	(14) 282	(19) 359	(20) 483	(20) 406	(16) 347
CON 500-699**	(13) 88	(9) 49	(9) 64	(11) 78	(11) 71	2494 (-6.8%)
TOTAL	1990	2030 (+2.0%)	2336 (+15.1%)	2733 (+17.0%)	2676 (-2.1%)	5164 (-7.6%)
TOTAL ACADEMIC YEAR	3871	4316 (+11.5%)	4718 (+9.3%)	5414 (14.8%)	5586 (+3.2%)	5164 (-7.6%)

* Number in () indicates number of sections offered [or planned for Spring 1979-80].

+ Includes 451 and 452 Problems, 497-498 Readings for Honors and 499 Senior Honors Thesis.

** Includes 551 and 552 Problems, 599 Masters Thesis and 699 Dissertation

Percentage figures for Fall Semester indicate increase over preceding Fall Semester.

Percentage figures for Spring Semester indicate increase over preceding Spring Semester.

*** Includes Econ. 203 and Econ. 212 with 6 students and 35 students, respectively.

Table 3 -- Economics Majors

<u>Academic Year</u>	<u>Fall Semester</u>	<u>Spring Semester</u>
1976-77	49	74
1977-78	65	68
1978-79	86	106
1979-80	114	141
1980-81	195	212
1981-82	195	178

pursued. This effort will make available employment information developed during the spring semester of 1982 and utilize the new undergraduate student organization, the Economics Student Council (ESC), as a vehicle to increase faculty contact with undergraduate students.

Three new courses have been developed in order to promote additional student interest in the undergraduate program. These new courses are Econ 304 Topics in Micro Economics, Econ 309 Introduction to Econometrics and Econ 395 Undergraduate Seminar. These three courses will be offered for the first time during the spring semester of 1983.

Very large enrollments in upper division courses continue to be a serious problem in the undergraduate economics program. During the 1981-82 academic year, the following enrollments were experienced in upper division courses taught by Economics faculty:

Fall Semester 1981

Econ 300.001	(Gisser)	112 students
Econ 300.002	(Jonas)	71 students
Econ 300.005	(Gregory)	64 students
Econ 315.001	(Parker)	143 students
Econ 330.001	(Hamilton)	71 students

Spring Semester 1982

Econ 300.002	(Gregory)	63 students
Econ 300.004	(Church)	70 students
Econ 315.001	(Chung)	126 students
Econ 315.003	(Parker)	99 students

These enrollment figures clearly indicate the need for seven (7) additional sections in the fall semester and six (6) in the spring semester.

The UNM Economics Newsletter initiated in April 1981 appears to be an effective vehicle for keeping the public informed about the activities of this department. The growing mailing list, favorable comments received from those in and outside the university and complaints received when the April 1982 issues was late in being distributed all suggest that this project is well worth the effort that goes into it.

The third edition of the Southwestern Review of Management and Economics has now gone to press and the response of the academic and business community appears to be very positive. Subscriptions currently exceed 100 and seven (7) sponsors are contributing to the journal. These sponsors are Arco Solar, The Diamond A Cattle Co., First Interstate Bank of Albuquerque, Petroleum Association of New Mexico, Lincoln Institute of Land Policy, Los Alamos National Laboratory, and Plateau Inc. Overall the revenue generated by the new journal exceeded projected revenues for the first year. Efforts by this department together with Anderson School of Management to attract additional subscribers and sponsors is continuing.

Members of the Economics Department continue to be active in research, publication and related professional activity. The eighteen full time faculty members published forty-two (42) articles, presented nine (9) papers at professional meetings, published five (5) new books and prepared forty (40) research reports this past calendar year (1981). The department continues to be active on university, college, and departmental committees and to be involved in a wide range of community activities.

Appointments to Staff

One new faculty member will be joining the UNM Economics Department in the spring of 1983. The new faculty member is Mr. Thomas Goodwin (Ph.D., University of California, Davis) whose fields of interest are public finance and econometrics.

Separation from Staff

None

Sponsored Research or Other Projects

Eight (8) of the departments eighteen (18) full time faculty submitted proposal to outside agencies. This represented 44% percent of the full time faculty participating in such activity.

Five (5) faculty members who submitted proposals to outside agencies were successful in obtaining awards, i.e., 28 percent of the full time faculty were successful in obtaining awards from outside agencies. A listing of projects funded during the 1981-82 academic year is provided in table 4.

Table 4

Funded Research
Department of Economics
1981-82

Principal Investigator	Project Title	Grant Amount
Ben-David	A Study of Ethical Foundations of Benefit Cost Analysis Techniques	\$ 52,084
"	Contract Assistance to Los Alamos on Passive Solar Conservation Economics and Market Analysis	39,329
"	Economic Impact Analysis of Water Use in the Lower Rio Grande of New Mexico	4,060
Boyle	Office of the Governor	39,500
"	Department of Finance & Administration	15,600
"	Department of Taxation & Revenue	5,135
Brown	Contract Assistance in the Development of Water and Environmental Research Programs for John Muir Institute	21,738
Cummings	Water Related Benefits & Costs Associated with USFS Recreation Programs	8,000
Parker	Responsiveness of Energy Demand to Electrical Prices	9,380
		194,826 *

* Dollar amount shown is for entire grant period;
1981-82 fiscal year dollar amount: \$124,174

II. Composite of information requested on individual biographical Supplements.

1. Advanced study.

- Andreae, Roger B. Ph.D. Vanderbilt University 1981
Dissertation title: Vintage Production.
- OsIund, Patricia C. Ph.D. University of Kansas 1981
Dissertation title: Disequilibrium in International Macroeconomic Models.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

- Church, Albert M. Sabbatical, Spring 1981 as Visiting Scientist at MIT.
- Cohen, Sanford Professional meetings: Hawaii and Bermuda.
- Cummings, Ronald G. Sabbatical 1981-82.
- Gregory, Peter Travel, Summer 1981 in Mexico.
- Jonas, Paul Summer consulting in Senegal and Zaire in 6/81 - 9/81.

3. New scholastic honors, fellowships, etc.

- Jonas, Paul Chevalier de l'Orde de Lion, received for economic planning.

4. Publications during the period.

Ben-David, Shaul, Professor

"Recreation in the Lake Powell Area: Alternatives for Preservation and Development." with William D. Schulze, David Brookshire, and David Rosenbaum. The Southwestern Review of Management and Economics. Vol. 1, No. 1, pp. 1-19; Spring 1981.

4. Publications (continued)

Brown, F. Lee, Professor

The Southwest Under Stress: National Energy Development Issues in a Regional Setting, with Allen Kneese. Johns Hopkins Press for Resources for the Future, Sept. 1981.

Burness, H. Stuart, Professor

"Risk: Accounting for an Uncertain Future."

"Scale Economics and Reliability Considerations in the Electric Power Industry," conditionally accepted by the Energy Journal.

"Meeting Energy Needs and Additions to Capacity", to appear in Coal Models and their Use in Government Planning, Praeger Press.

"Benefit-Cost Analysis as a Means for Determining Practicably Irrigable Acreage", to appear in Natural Resource Journal.

Implementing Multiple Purpose Planning for Water Reclamation Projects in Developing Countries: Some Perspectives from the U.S. Experience.

"The Theory of the Dam: An Application to the Colorado River in Essays in Contemporary Fields of Economics, G. Horwich and J. Quirk, eds., Purdue University Press, 1981.

Benefit Cost Analysis and Indian Water Rights, to be published by Westview Press.

Water Management in an Arid Environment, to be published by Westview Press.

Chung, Pham, Professor

"United States and German Aggregate Production Functions: A Statistical Analysis" in O.D. Anderson and M. Ray Perryman editors. Time Series Analysis, North-Holland, 1981.

"On an Estimation of the Elasticities of Capital and Labor Efficiencies", Journal of Economics, referred proceedings, NVEA Conference, 1981.

4. Publications (continued)

Church, Albert M., Professor

The Sophisticated Investor - How to Target Prime Investment Opportunities, Prentice Hall, 1981, 210 pp.

The Taxation of Natural Resources, Lexington Books, 1981, 330 pp.

"Issues in Emergency Preparedness for Radiological Transportation Accidents," (with Roger D. Norton) Natural Resources Journal (Fall 1981).

"The Effects of Local Government Expenditure and Property Taxes on Investment," Journal of the American Real Estate and Urban Economics Association 9 (Summer, 1981) 165-180.

"Urban Form and Air Pollution: The Case of Albuquerque," The Southwestern Review of Management and Economics, (Summer, 1981).

Cohen, Sanford, Professor

"Work Sharing: Problems and Limits," Debate October 1981, p. 13.

Cummings, Ronald G., Professor

The Proposed Waste Isolation Pilot Project (WIPP) and Impacts in the State of New Mexico (with H.S. Burness and R.D. Norton), New Mexico Energy Research Institute, EMD2-67-1139, Albuquerque, New Mexico, April 1981.

Benefit Cost Analysis and Indian Water Rights, to be published by Westview Press.

"Economic Analysis at Early Stages of Technology Development" (with William D. Schulze).

"Joint Management of Water Resources in Irrigation and Lagoon Environments," (with H. Lampe and J. McFarland), in Programming Studies for Agricultural Sector Policies, Bassoco, Norton, and Solis (Editors), Oxford University Press, forthcoming 1981.

"Environmental Trade-offs with the Adoption of Cogeneration Technologies," (with H.S. Burness and I. Paik), Journal of Environmental Economics and Management, Vol. 8, 45-58, 1981.

4. Publications (continued)

Cummings, Ronald G., Professor (continued)

"The Role of Dynamic Optimization Models for Natural Resource Systems: A Case Study for HDR Geothermal Resources," (with G. Morris and I. Paik), Management Science, Vol. 27, No. 5, 550-570, May, 1981.

Estudio Integral Para la Ordenación de la Cuenca del Proyecto Hidro-electrico 'El Cajon', Report to Inter-american Development Bank, May, 1981.

"Scale Economics and Reliability Considerations in the Electric Power Industry," conditionally accepted by the Energy Journal.

"Meeting Energy Needs and Additions to Capacity", to appear in Coal Models and their Use in Government Planning, Praeger Press.

Benefit-cost Analysis as a Means for Determining "Practically Irrigable Acreage", to appear in Natural Resource Journal.

Implementing Multiple Purpose Planning for Water Reclamation Projects in Developing Countries: Some Perspectives from the U.S. Experience.

"The Theory of the Dam: An Application to the Colorado River", in Essays in Contemporary Fields of Economics, G. Horwich and J. Quirk, eds., Purdue University Press, 1981.

Gisser, Micha, Professor

Intermediate Price Theory Analysis, Issues, and Applications, McGraw-Hill Book Company, 653 pages.

"The Definition of a Surface Water Right and Transferability", Journal of Law and Economics, Vol. XXIV, October 1981, pp. 273-288. Co-authors: Ronald N. Johnson and Michael Werner.

4. Publications (continued)

Gregory, Peter, Professor

"Legal Minimum Wages as an Instrument of Social Policy in Less Developed Countries, with Special Reference to Costa Rica", in the Economics of Legal Minimum Wages, S. Rottenberg, ed. (Washington: American Enterprise Institute for Public Policy Research, 1981) pp. 377-402.

"Employment, Unemployment, and Underemployment in Latin America", Statistical Bulletin of the OAS 2:4 (1980), pp 1-20. (Issue appeared in 1981).

"Employment, Unemployment, and Underemployment in Latin America", (March 1981) 45 pp. UNM Latin American Institute Research Papers Series.

"Legal Minimum Wages as an Instrument of Social Policy in Less Developed Countries, with Special Reference to Costa Rica", (June 1981) 41 pp. UNM Latin American Institute Research Papers Series.

"Economic Development and the Labor Market in Mexico", (November 1981), 50 pp. UNM Latin American Institute Research Papers Series.

Hamilton, David, Professor

"Ayres' 'Theory of Economic Progress'", The American Journal of Economics and Sociology, Vol. 40, #4, Oct. 1981, pp. 427-438.

Review of John Adams (ed.), "Institutional Economics: Contributions to Holistic Economics", Boston: Martinus Nijhoff, 1980 in the Journal of Economic Issues Vol. XV No. 3, Sept. 1981, pp. 793-796.

Jonas, Paul, Professor

"The Problems of Current Inflation in the United States", in James Tobin, Inflation Through the Ages (Columbia University Press, 1981).

4. Publications (continued)

Jonas, Paul, Professor (continued)

"The Economic Consequences of the Treaty of Trianon", in B. Kraly (ed.), The Treaty of Trianon: 60 Years Later, (Columbia University Press: New York, 1981).

"Reform for the Agricultural Institutions in Lower Casamance, Senegal", in Agricultural Development in the Lower Casamance Region in Senegal, (Harza Engineering: Chicago, IL 1981).

"Computer in Economic Planning: The Soviet Experience", (Cave), Russian Review, (Hoover Institute), January 1981.

"Information und Wirtschaftslenkung in der USSR", (Zell), Russian Review, (Hoover Institute), January 1981.

Kneese, Allen V., Professor

The Southwest Region Under Stress: National Resource Development Issues in a Regional Setting (with F. Lee Brown), Baltimore: The Johns Hopkins University Press for Resources for the Future, 1981

"Environmental Policy," in Peter Dunigan and Alvin Rabushka eds., The United States in the 80's, Stanford: The Hoover Institution.

"Pricing Urban Water: Theory and Practice in Three Southwestern Cities" (With Jennifer Zamora and Erick Erickson), The Southwestern Review Vol. 1, no. 1, Spring 1981.

"Risk in Benefit-Cost Analysis" (with William Schulze), Risk Analysis vol. 1, no. 1, 1981.

"State Liability for International Environmental Degradation: An Economic Perspective" (with Ralph C. d'Arge), Natural Resources Journal Vol. 20, no. 3, 1980. Reprinted in Donald C. Hagman, ed., Land Use & Environmental Law Review 1982, New York: Clark Boardman Company.

Journal of Environmental Economics and Management (with Ralph d'Arge), Quarterly journal, Academic Press, New York, 1972 to present as editor.

4. Publications (continued)

Kneese, Allen V., Professor (continued)

Environmental Regulation and the U.S. Economy (with Henry M. Peskin and Paul Portney), Baltimore: The Johns Hopkins University Press for Resources for the Future, 1981.

Norton, Roger D., Professor

"Market Equilibrium Computations in Activity Analysis Models" (with P.L. Scandizzo), Operations Research, Vol. 29, no. 2, March-April 1981.

"Policy Issues in the Routing of Radioactive Materials Shipments." Natural Resources Journal, October 1981.

"Issues in Emergency Preparedness for Radiological Transportation Accidents" (with A.M. Church), Natural Resources Journal, October 1981.

"Future Prospects for Mexican Agriculture," The Southwestern Review of Management and Economics, vol. 1, no. 3, 1981.

"Operational Research Methods in Agricultural Policy Analysis" (with G.P. Kutcher), accepted for publication in 1982 in the European Journal of Operational Research.

"Economic Evaluation of a Sector Investment Program: A Case Study for Peru" (with V. Santanifello and J.A. Echevarria), Interamerican Development Bank, Washington, D.C., September 1981.

Parker, Alfred L., Professor

"The Energy Crisis -- The Problem in Perspective" Arizona Energy Education, January 1981.

"Limiting State Coal Severance Taxes?" New Mexico Business Journal, Vol. 5, No. 2, February 1981, pp. 39-42.

"A Study of the New Mexico Liquor Control Act," New Mexico Business Journal, Vol. 5, No. 3, March 1981, pp. 29-35, Co-author John Temple, Assistant Director, BBER.

4. Publications (continued)

Parker, Alfred L., Professor (continued)

Contributor to Virginia Barber and Rick Matthews, Starting a Local Conservation and Passive Solar Retrofit Program: An Energy Planning Source Book, Los Alamos Scientific Laboratories, LE-8992-EPS, forthcoming Spring 1982.

5. Other research projects or creative work in progress or completed during the period:

Ben-David, Shaul, Professor

1979-1981: Co-Principal Investigator, "Energy Management System, Phases I, II, III", NMEED, \$204,518.

1980-1981: Principal Investigator, "Implications of a National Retrofit Program", LASL, \$12,000.

1979-1981: Principal Investigator, "High Plains Regional Study-CDM", NMWRR1, \$59,640.

1980-1982: Principal Investigator, "A Study of the Ethical Foundations of Benefit-Cost Analysis Techniques", NSF, \$52,084.

1981-1982: Principal Investigator, "Contract Assistance to Los Alamos on Passive Solar/Conservation Economics and Market Analysis", LANL, \$32,860.

Boyle, Gerald J., Professor

1981 : Department of Finance and Administration, "5 Year Projection of N.M. Economy," \$15,000.

1980-1981: Office of the Governor, Financial Assistance to the Chairman of the Governor's Council of Economic Advisors, \$20,000.

1981-1982: Office of the Governor, Financial Assistance to the Chairman of the Governor's Council of Economic Advisors for "20 Year Forecast of N.M. Economy," \$40,000.

1981-1982: Department of Taxation and Revenue, prepare a "Critique of the Representative Tax System," \$5,000.

5. Other Research Projects (continued)

Brown, F. Lee, Professor

- 1981 : FOR-URM: Demonstration of a Prototype Economic Forecasting Service \$50,900.
- 1981-1982: Ford Foundation grant through John Muir Institute - "Role of Markets in Allocating Western Water", \$20,000.

Burness, H. Stuart, Professor

- 1979-1981: "A Socio-economic Analysis of the Proposed Waste Isolation Pilot Project." Department of Energy, \$380,000.
- 1979-1981: "Economic Aspects of Water Use in Arid Environments," National Science Foundation, \$142,000.
- Pending : "Decision Theory and Catastrophic Risks", National Science Foundation, \$105,000.
- Not Approved : "Dynamic Economic Adjustments to Climate Change", National Science Foundation, \$145,000.
- Not Approved : "Valuing Alternative Allocations of Forest Service Lands to Wilderness and Non-Wilderness Uses: Method and Applications", Bureau of Land Management, \$120,000.
- Not Approved : "Water Rights", Water Resources Research Institute, \$20,000.
- Not Approved : "An Economic Evaluation of Energy Conservation Measures for the State of New Mexico", New Mexico Energy and Minerals Department, \$59,525.
- Not Approved : "Evaluating EPA Regulations Concerning the Disposal of Toxic Wastes: Methods Development and Application", Environmental Protection Agency, \$10,000.
- Not Approved : "Coal Slurry Options for New Mexico Coal: An Analysis of Trade-Offs", New Mexico State Corporation Commission, \$250,000.

5. Other Research Projects (continued)

Burness, H. Stuart, Professor (continued)

- The Colorado River: Institutions and Historical Problems of Use.
- Water Management in the Central Valley of California.
- The Rio Grande River: A Descriptive Analysis.
- The Theory of an Intertemporal Water Economy Operating under Certainty.
- Water Storage under Uncertainty.
- Ex Ante Optimality and Spot Market Economics.
- The Formulation and Implementation of U.S. Reclamation Policy.
- Water Policy and Water Pricing in Reclamation Projects: The Issue of Subsidies.
- The Proposed Waste Isolation Pilot Project and Impacts in the State of New Mexico: A Socio-economic Analysis, EMD2-67-1139, April 1981.

Chung, Pham, Professor

- "Regulatory Costs, Factor-Augmenting Cum Factor-Absorbing Technical Change, and Economic Growth: An Estimation Model".
- "Real Balance and the Bias of Technical Change".
- "Monetary Instruments in a Stochastic Optimal Control Model".
- "Financial Innovations as Endogenous Responses to Monetary Targets".
- "On the Implications of the Act of 1980 for Monetary Control".

Church, Albert M., Professor

- Partial draft of a book: "The Regional Conflicts over Natural Resource Revenues".

5. Other Research Projects (continued)

Cohen, Sanford, Professor

Concluding chapter in book on labor in New Mexico. Prof. Robert Kern, ed. scheduled publication in 1982.

Research on Carpenters Union in New Mexico.

Cummings, Ronald G., Professor

1979-1981: "A Socio-economic Analysis of the Proposed Waste Isolation Pilot Project." Department of Energy, \$380,000.

1979-1981: "Economic Aspects of Water Use in Arid Environments," National Science Foundation, \$142,000.

Pending : "Decision Theory and Catastrophic Risks", National Science Foundation, \$105,000.

Not Approved : "Dynamic Economic Adjustments to Climate Change", National Science Foundation, \$145,000.

Not Approved : "Valuing Alternative Allocations of Forest Service Lands to Wilderness and Non-Wilderness Uses: Method and Applications", Bureau of Land Management, \$120,000.

Not Approved : "Water Rights", Water Resources Research Institute, \$20,000.

Not Approved : "An Economic Evaluation of Energy Conservation Measures for the State of New Mexico", New Mexico Energy and Minerals Department, \$59,525.

Not Approved : "Evaluating EPA Regulations Concerning the Disposal of Toxic Wastes: Methods Development and Application", Environmental Protection Agency, \$10,000.

Not Approved : "Coal Slurry Options for New Mexico Coal: An Analysis of Trade-Offs", New Mexico State Corporation Commission, \$250,000.

5. Other Research Projects (continued)

Gregory, Peter, Professor

Research on the evolution of the Mexican labor market, 1940-1980, in progress. Supported by the World Bank.

Jonas, Paul, Professor

Research in progress: The Problems of the Integration of the Soviet Bloc (to be published in Soviet-type Economic Systems: Current Issues 1982).

Parker, Alfred L., Professor

1979-1981: Principal Investigator, "Socio-economic Impact of Increased Storage at Abiquiu Reservoir", U.S. Corps of Engineers, \$9,979.

1980- : Principal Investigator, "New Mexico Natural Gas Study", sponsored by the Public Service Company of New Mexico, report published December 11, 1980, 59 pages.

1980- : Principal Investigator, "New Mexico Coal Production Study", sponsored by the Public Service Company of New Mexico, report published December 1, 1980, 50 pages.

1981- : Principal Investigator, "Natural Gas and Alternative Fuels, Price Projections, 1981-2001," sponsored by the Public Service Company of New Mexico, Report published March 2, 1981, 115 pages.

1981- : Principal Investigator, "Market Potential Indexing Study: Passive Solar Space Heating and Active Domestic Hot Water Potential for New Mexico," Co-authors Fred Roach and Chris Kirschner, sponsored by the State of New Mexico, Energy and Mineral Department, Report published November 1981, 159 pages.

5. Other Research Projects (continued)

Talby, Donald, Associate Professor

"The Economic Impacts of the Anaconda Uranium Mill, Bluewater, New Mexico," Fall 1981. for Anaconda Copper Company.

6. Activities in learned and professional societies (meetings attended, etc.)

Ben-David, Shaul, Professor

"Estimating Direct and Indirect Water Requirements from Expanded Energy Development", Shaul Ben-David and Fred Roach. Paper presented at the IASTED International Symposia in San Francisco, CA, May 20-22.

"Energy Optimization for DOD Facilities", by Fred Roach, R. Neenan and Shaul Ben-David. Paper presented at the 4th Miami International Conference on Alternative Energy Sources. Miami Beach, Fla., December 14-16, 1981.

Burness, H. Stuart, Professor

National Academy of Sciences, Natural Resource Council, Committee on Non-Fuel Municipal Demand.

Regular reviewer for: AER, IER, JEEM.

Church, Albert M., Professor

Participant in Lincoln Institute Northwest Center Planning Session, Seattle, May 1981.

Participant in 1981 TRED Meetings, Cambridge, Mass. Sept. 1981.

Cohen, Sanford, Professor

Attended Annual Meeting of National Academy of Arbitrators in Hawaii.

Attended Special meeting of National Academy of Arbitrators in Bermuda.

Southwest Labor Council Convention: Panel chairman and panelist "Mediation in Public Sector".

6. Activities in learned and professional societies (continued)

Cummings, Ronald G., Professor

Member, Committee on Climate Change, National Research Council.

Member, Board of Directors, Association of Environmental and Resource Economists.

President-elect, Association of Environmental and Resource Economists.

Member, Editorial Board, Land Economics.

Professional papers read for seminars at:
University of Maryland
Oregon State University
University of Wyoming

Gregory, Peter, Professor

Papers read at professional meetings:

"The Deterioration of Employment Conditions in Mexico, 1950-1980: Fact or Fancy?" Annual meetings of the Rocky Mountain Council on Latin American Studies, February 1981.

"Economic Development and the Labor Market in Mexico," Annual Meetings of the Southwest Labor Studies Association, May 1981.

Discussant of papers presented at the First National Conference on Information Systems for Labor Administration. (Primera Reunion Nacional sobre el sistema de informacion para la Administracion del Trabajo), Mexico City, May 1981.

Hamilton, David, Professor

President of Association for Institutional Thought of the Western Social Science Association in the academic year 1980-1981.

Read a paper at WSSA meeting in San Diego April 1981, entitled "The U.S. Economy: The Disadvantages of Having Taken the Lead", to be published by AFIT.

6. Activities in learned and professional societies (continued)

Jonas, Paul, Professor

American Economic Association, Annual Meeting in December 1981, Sheraton, Washington, D.C. Paper: "The Export-Import Bank of the United States in the Financing of the Export of Specific Products.

Paper: "The Hungarian Economy in Transition, Round Table Conference on the East European Economy", City University of New York, October 1981.

Keynote address: "Poland: A Genuine Eastern European Labor Union at Last", 7th Annual Labor Studies Conference, May 1-2, 1981, University of New Mexico.

Kneese, Allen, Professor

World Health Organization

National Academy of Sciences

U.S. Department of the Interior

Delaware River Basin Commission

Texas Water Development Board

Tennessee Valley Authority

U.S. Office of Science and Technology Policy

Pan American Health Organization

National Science Foundation

Committee for Economic Development

American Agricultural Economics Association

National Oceanic and Atmospheric Administration

World Bank

Department of Energy

Navajo Tribe

Los Alamos Scientific Laboratory

The State of Israel

6. Activities in learned and professional societies (continued)

Kneese, Allen, Professor

The Rocky Mountain Research Institute

Battelle Memorial Institute

Camp Dresser McKee, Inc.

American Management Systems, Inc.

SRI International

U.N. Economic Commission for Latin America

State of New Mexico

Organization for Economic Cooperation and Development, Paris.

7. Other Professional Activities (exhibits, concerts, etc.)

Ben-David, Shaul, Professor

Energy Economics Consultant, Los Alamos National Laboratory.

Brown, F. Lee, Professor

Expert Witness for State of New Mexico in Colorado vs. New Mexico Water Case.

Speech to National Association of Business Economists in Tucson, Arizona - 2/20/81.

Speech to New Mexico Association of Purchasing Agents, 4/10/81.

Review of Economic outlook for Albuquerque, meeting with Mayor Rusk.

Technical advisor to FOR-UNN forecasting service operated by BBER.

Presentation to Symposium on Indian Water Policy, Oakland California, 11/9/81.

Member, Program Review Board, New Mexico Water Resources Research Institute.

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7. Other Professional Activities (continued)

Cohen, Sanford, Professor

Arbitration labor management disputes in New Mexico, Texas, Wyoming, Louisiana, Arkansas, and Arizona. TV interview on the PATCO strike

Cummings, Ronald G., Professor

Various presentations to New Mexico Senate, Committee on WIPP.
Talk to Artesia Chapter of the Rotary Club concerning the WIPP.
Consultant to International Institute for Applied Systems Analysis, Vienna, Austria, regarding their research program in water resources.
Consultant to Interamerican Development Bank: An evaluation of the El Cajon Project in Honduras, South America.
Consultant to New Mexico Water Resources Research Institute regarding New Mexico-El Paso suit over water rights.

Gregory, Peter, Professor

Consultant to the World Bank.
T.V. appearance on Channel 13 to discuss Mexican migration to the U.S.
Referee for Economic Development and Cultural Change and for Latin American Research Review.

Jonas, Paul, Professor

Two broadcasts on the Voice of America for Francophone Africa.
Round 10 lectures for off campus audiences organized by UNM Public Information Bureau.

Kneese, Allen, Professor

American Academy of Arts and Sciences
American Association for the Advancement of Science
American Economic Association

7.

Other Professional Activities (continued)

Kneese, Allen, Professor, (continued)

Association of Environmental and Resource Economists.
Chemical manufacturers Association, Advisory Panel on Benefits from Toxic Chemicals Regulations.
Editorial Board, Journal of Environmental Ethics.
Editorial Board, Risk Analysis.
International Institute for Applied Systems Analysis (IIASA), Advisory Committee for the Resources and Environment Area.
National Academy of Sciences - IIASA Liason Committee on Resources and the Environment; Navajo cooperative Committee National Research Council, Commission on Nonfuel Minerals Demand; Commission on Natural Resources -- Executive Committee, Board on Mineral and Energy Resources, Ad Hoc Committee on Water Resources, Committee on Minerals Demand.
National Science Foundation - Policy Research and Analysis Advisory (PRA) Advisory Committee and its Subcommittee on Environment, Energy, and Resources.
New Mexico Water Resources Research Institute, Program Development and Review Board.

Norton, Roger D., Professor

Co-editor to the Southwestern Review of Management and Economics.
Advisor to:
The Mexican Government on implementation of an agricultural policy planning model.
The Peruvian government and the Interamerican Development Bank on design and implementation of a model for selection of agricultural investment projects.
The Secretariat for Economic Integration in Central America on models for aiding in the design of nutritional policies in Honduras.

7. Other Professional Activities (continued)

Norton, Roger D., Professor (continued)

Research project proposals submitted:

"Decision Theory and Catastrophic Risk", to the National Science Foundation (co-principal investigator with H.S. Burness and R.G. Cummings).

"A Framework for Aggregate Wilderness Valuations", to the U.S. Bureau of Land Management (principal investigator).

"Evaluation of Agricultural Development Strategies in Costa Rica", joint proposal with the University of Costa Rica to U.S. A.I.D. (co-principal investigator).

Advisor (with Al Utton and others) to Senator Domenici on proposed legislation for a Border Research Institute.

Talby Donald, Associate Professor

A talk on "Reagonomics" presented to the Albuquerque Philosophers-Anonymous, 7/2/81.

Consultant to Anaconda Copper Company in conjunction with uranium mill operating license renewal.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Ben-David, Shaul, Professor

Computer use Committee

UNM Delegate to the Universities Council on Water Resources Research Policy Committee.

Burness, H. Stuart, Professor

Committee to Evaluate Graduate Course Offerings

Recruiting Committee

Dissertation Committees:

Connie Arundale
Keith Willett
Judy Nelson
Erick Erickson

Linda Wilson
Jerry Holmlund
Gretchen Blumberg

8. Non-teaching University service (continued)

Burness, H. Stuart, Professor (continued)

Readings courses offered in:

Mathematical Economics
Regulation
Energy
Environmental
Comparative Statistics

Chung, Pham, Professor

Chairman of M.A. and Ph.D. macro-committees.

Cohen, Sanford, Professor

A&S Promotion Committee

A&S Graduate Committee

A&S Sabbatical Committee

Faculty Committee American Studies

Cummings, Ronald G., Professor

Dissertation Committees:

Erick Erickson (Major Professor)
Jerry Holmlund (Major Professor)
Gretchen Blumberg (Major Professor)
Judy Nelson

Gregory, Peter, Professor

Vice-President Latin American Concillium.

Member, Policy Committee, Latin American Institute

Member, Budget Committee, Latin American Institute

Chairman, Tinker Research Grants Committee

Member, A&S Dean's Advisory Committee on Latin American Studies

Member, Interdisciplinary Committee on Latin American Studies.

8. Non-teaching University service (continued)

Gregory, Peter, Professor (continued)

Member, Coordinating Committee for UNM-University of Sao Paulo Program.

Hamilton, David, Professor

Member of Student Publications Board

Member of Campus Planning Committee

Jonas, Paul, Professor

Member, Russian Committee

Member, Committee for European Studies

Member, Asian Studies Committee

Member, Advisory Committee for the Dean, University College

Member, Department Search Committee

Norton, Roger D., Professor

Chairman, Committee on a Graduate Program in Development Economics

Dissertation advisor for:

Vera Aragon
Keith Willett
Al Henderson
Linda Zimmerman
Jim Ross Thomas

Honors thesis advisor for Bruce Bybee

Parker, Alfred L., Professor

Chairman, Department of Economics

Member, Committee to Review BBER

Member, Public Administration Advisory Committee

8. Non-teaching University service (continued)

Talby, Donald, Associate Professor

Member, several departmental MA and Ph.D committees.

9. Public Service (church activities, community chest, boy scouts, etc.)

Burness, H. Stuart, Professor

Youth basketball coach - Corrales Youth Basketball League

Cohen, Sanford, Professor

Rio Grande Planned Parenthood Federation, Board of Directors

Gregory, Peter, Professor

Member, Board Of Directors and Executive Committee: Albuquerque Opera Theatre.

Hamilton, David, Professor

Member, New Mexico State Labor and Industrial Commission

Member, Campaign Practices and Ethics Board of City of Albuquerque.

Member of Educational Advisory Board of Consumers Union.

Parker, Alfred L., Professor

Talk before the New Mexico Contractors Association "The New Mexico Economy in the 1980's" February 1981.

Talby, Donald, Associate Professor

Vice-President of New Mexico Mountain Club.

The Report of the Department of English
July 1, 1981 - June 30, 1982
Hamlin Hill, Chairman

I. GENERAL INFORMATION

A. Honors. During 1981-82, members of the department received impressive honors: Rudy Anaya was appointed a Kellogg Foundation Fellow and William Dowling received a fellowship from the John Simon Guggenheim Memorial Foundation. David Jones and Peter White returned from their Fulbrights to New Zealand and Poland, sadder but wiser; and Barry Gaines left for Germany to inaugurate the faculty exchange with the University of Würzburg. Mary Power spent the year on an exchange with the University of Wisconsin, and Gene Frumkin did the same at the University of Hawaii. The Chairman stumbled his way through the Annual Research Lecture and left immediately for a Guest Professorship at the University of Würzburg. Lecturer Joyce Emert was elected to membership in the Texas Christian University chapter of Phi Beta Kappa. The recipient of the 1982 D. H. Lawrence Fellowship was Ingrid Wendt, a poet from Eugene, Oregon.

B. Personnel. Visitors here, exchanging with our colleagues listed above, were Professors Gerhard Hoffman (Würzburg), Phillip Herring (Wisconsin), and Phyllis Thompson (Hawaii), the latter so infected with Newmexicosis that she is moving here permanently in 1983. Morris Eaves received a promotion to full professor; Cheryl Fresch and Michael Hogan received tenure, and Michael was promoted to associate professor. Mary Bartlett was awarded persona non grata status by the Director of Graduate Studies, but remains modest.

C. Curriculum. The Department survived the first year of the undergraduate curriculum revision with only minor casualties. The new

298/498 courses, intended for off-campus teaching, had several successful sections. A new Professional Writing minor will appear for the department's consideration next year. The M.A. in Creative Writing had significant changes adopted by the Department, and the Director of Graduate Studies kept the rest of us busy with revisions and modifications of other parts of the Graduate Program. Enrollment improved slightly over 1980-81, but only because of increased demand for Freshman English sections.

11. REPORTS OF STANDING COMMITTEES

A. Freshman English Program

Director: Michael Hogan

Assistant Director: Peter Page

Freshman English Committee: Michael Hogan, Chair, Peter Page, Lynn Beene, Nancy Gage, Michael Shearer, Rick Eden

During the 1981-82 school year, the FE program, continuing a six-year trend, grew by approximately 8% over the previous year. Significant statistics include the following: Fall 1981 saw 159 sections of FE with 4108 students; in Spring 1982 we strengthened the writing skills of 3272 students in 130 sections. This increase in enrollments meant a corresponding increase in the number of FE teachers. While we continue to use 45 TAs per year and have about 15 sections taught by regular faculty each term, our reliance on part-time lecturers grows. Last year these part-time lecturers (18 were employed during the year) taught some more than 80 sections of FE for us.

The move by the College of Arts and Sciences to amend the manner in which students can satisfy the demonstration of writing proficiency it requires was the major triumph of the year. Initiated in and supported unanimously by the English Department, this

amendment will channel students into English 102 rather than inviting them to pass a single CST. Thus in the future UNM students will demonstrate competence in writing by taking and passing a course of instruction in composition, a saner and sounder requirement than passing a single isolated test.

Finally, the FE program crept quietly through yet another year without a recruiting scandal, without being sued (though several lawsuits were threatened), and without an investigation by the legislature of the poetry taught in our courses.

B. Creative Writing Program

Director: Rudolfo Anaya (Fall 1981)
David Johnson (Spring 1982)

Committee members: Sharon Barba, Lee Bartlett, Tony Hillerman,
Tom Mayer, Harvena Richter, Pat Smith

In the spring the English Department approved major changes in the graduate Creative Writing program; in effect, a separate M.A. in Creative Writing has been established. The two-day comprehensive examination was eliminated; an oral exam following the completion and approval of the creative thesis, and a required course in the theory of fiction or the theory of poetry have been added.

An attractive Creative Writing flyer is now available for circulation. Sat Siri Khalsa finished an M.A. in Creative Writing; six undergraduates finished theses for the major in Creative Writing.

Under the sponsorship of the English Department and GSA, Lee Bartlett organized a successful series of noon readings during March and April; both faculty and students read.

Lee Bartlett is an addition to the Creative Writing faculty; he also teaches modern poetry. Gene Frumkin was an exchange faculty

member of the University of Hawaii for 1981-82; his counterpart from Hawaii was Phyllis Thompson. Rudy Anaya was on sabbatical for the spring, and received the Kellogg for next year. Pat Smith went to El Paso to read at the annual meeting of the Rio Grande Writers Association.

The American Academy of Poets contest, judged by Phyllis Thompson, was won by Gail Carbee-Fahey and Gayle Krueger. The Lena M. Todd Memorial prize was awarded to Gloria Martin for fiction and to Diana Parker and Chris Leche for poetry. The Creative Writing Fellowship for graduate students (1981-82) was presented to Gene Booth. Denise Chavez was awarded the Native American/Chicano Creative Writing Fellowship for 1981-82.

C. Graduate Program

Graduate Director: James Barbour
 Graduate Committee: Robert Fleming, Barry Gaines, Patrick Gallacher, Patricia Smith, and Mark Facknitz, Graduate Student Representative

This year was a busy one for the English Graduate Program: a new program was introduced in Composition and Rhetoric; the M.A. and Ph.D. in Literature and the Creative Writing program were revised; the salary structure and the classification of Teaching Assistants were revamped and the teaching load for new Teaching Assistants was lightened; the Departmental book lists were completed; the Graduate Committee sponsored a sedate graduate chili-and-tamale garden party in the Faculty Club-- but let us start with first things first: the graduate students and their achievements during the year.

Eight dissertations were written and defended in the year from July 1981 through the summer of 1982, and they ranged in subject matter from the good Woolf to the bad war.

Timothy Weiss, From Fairy Tales to Edwardian Romance: A Study of Ford Madox Ford (July 1981)
 James Ruppert, Literary Translators of Native American Literature: H. R. Schoolcraft and Mary Hunter Austin (December 1981)
 Steven Ferebee, Virginia Woolf as an Essayist (December 1981)
 Gregory Candela, "Descent into the Malestrom": Melodramatic Form and Vision in Early Black Fiction (December 1981)
 James Wilson, Vietnam in Prose: Cultural Conflict and Literary Confusion (December 1981)
 Stephanie Kauffman, Relations between the Sexes in Thomas Hardy's Novels: Structural Patterns of Characterization and Plotting (April 1982)
 Ellen Ehrlich, The Role of the Framing Narrative in Chaucer's Dream Vision (April 1982)
 Bonnie Jean McConnell, The Writing Lab: Programs and Students (April 1982)

James Wilson, who won the 1981 Graduate Fellowship Award of \$1,000 from UNM Graduate School, had his dissertation published by McFarland, Chapel Hill, (North Carolina) under the title Vietnam in Prose and Film; the chapter on film was a later addition to the dissertation. And while speaking of awards, one of our students was again selected by the Graduate School for a Graduate Fellowship in 1982: Bill Balassi will receive \$1,000 grant to spend the summer in Boston reading the Hemingway papers at the J.F.K. Library in preparation for his dissertation on the composition of The Sun Also Rises. A second award, the Tuition Fellowship was awarded by the Graduate School to Art McMahon. The awards were partly due to excellent sponsoring letters by Professors Fleming and Gallacher.

The doctoral comprehensive examination was passed by Michelle LeBeau in the fall and by a much larger group in the spring: Evan Davis, Mark Facknitz, Bill Balassi, Peter Chase, and Wendy Jones. At the M.A. level six candidates passed the summer examination: Patricia Allred, Susan Frye (a high pass), Steve Choisser, Barbara Payton-Ashley, Cheryl McLean, and Sat Siri Khalsa, the first graduate from the Creative Writing Program.

In the winter Christine Buchalter passed the exam.

Major changes were made in existing programs and a doctoral degree in English with an emphasis in Composition and Rhetoric was approved by the Department. In the past we offered a major field exam in Composition upon petition and the approval of the Graduate Committee. We felt that we needed a designed program that would train candidates in the discipline and lead to a position in composition. This will allow our candidates to compete for two-thirds of the jobs that are advertised in the MLA Job List. In many respects this is an untraditional department, but it recognized the realities of the market place and the changes that have occurred in the profession in the last ten years in coping with the epidemic of illiteracy that has swept through our universities.

The Creative Writing program was changed to make it more consistent with other programs in the nation. The M.A. examination in literature and writing was eliminated and replaced by an oral exam covering the candidate's thesis. A course in the Theory of Poetics/Prose was inserted into the program as a required course. The change should allow our creative writers to concentrate upon their craft and place the emphasis of the program upon the thesis, thus judging the students on their writing and not their ability to pass a literature exam.

The changes in the M.A. and Ph.D. in literature were less dramatic. M.A. candidates who enroll next year will be required to pass four out of six literary periods on their M.A. exams (previously they were required to write a passing exam that consisted of four periods). The exam will be graded pass (with possible stipulations for those going on to Ph.D. work), terminal pass, and fail. The same exam will be used

as a diagnostic exam for entering Ph.D. candidates and must be taken at the end of the first semester. Ph.D. candidates will take two major field exams on their comprehensives to replace the old format of one major and three minor fields. Several candidates in the program have chosen to take the new exam.

A new course was offered this spring, 698: The Research Essay, taught this year by Hamlin Hill. The course is designed for candidates in the later stages of their graduate careers who want to revise papers for submission to scholarly journals. We anticipate that the course will better prepare our students for the job market and will introduce them to the world of scholarly publication.

One of the proposals from the Graduate Committee was tabled by the P & P Committee. We asked the P & P to consider a change in the language requirement whereby students who take the 365-366 sequence (Readings for Graduate Students) and receive a B or better in the second semester will satisfy the requirement. Latin is the only language that is currently satisfied by the course sequence. The suggested change will give other languages parity with Latin. Currently we require a 550 on the GSFLT (Graduate Student Foreign Language Test administered by the Educational Testing Service) for French, German, Spanish, and Italian, and these languages can only be satisfied by taking the GSFLT. If the proposed change were accepted, students could challenge the course sequence by scoring in the upper 50 percentile on the GSFLT.

The big push for the year concerned the salaries of Teaching Assistants. Over the summer we took a survey of twenty universities and found that on an adjusted basis (adjusted for the number of courses taught) our TAs were paid less than at any other doctoral granting university

with the exception of the University of Oklahoma. (The salary schedule is attached: note that Colorado State and UNLV do not hire post-M.A. Teaching Assistants and are therefore not to be compared with UNM., although UNLV still pays more.) Our figures, which were supplied by the Directors of Freshman English at the various universities, were refuted by the Administration. They gathered figures from the administrations at other universities to indicate that we ranked somewhere in the middle in our salary scale. Their figures contained errors, were not adjusted for the quarter system, did not take into consideration teaching loads, and the 50 percentile figure was arrived at by not considering the average salary in cases where it was obviously higher than ours. (Again see the attached sheets.) When these errors were pointed out they continued to use their own figures in conversations with the Office of Graduate Studies and refused to recant. In conversations during the second semester, they indicated that the TAs had fallen behind faculty salary raises by \$500 in the last several years and all or part of that figure might be made up in this year's budget. It was not made up, and TA salaries were increased at the same rate as faculty salaries. But this issue will come up again this year. The Office of Graduate Studies is pursuing the matter (they are concerned with the general welfare of TAs and are investigating abuses of TAs in a few other departments), several Regents are interested (Dr. Philip Martinez and Calvin Horn particularly), so the dust has by no means settled. We are able to increase salaries, however, by reclassifying our post-M.A. Teaching Assistants as Teaching Associates, thereby increasing their salaries above \$6,000. We are able also to take first semester TAs with no teaching experience and place them on a half-load

for their initial semester. This is in line with our desire to instruct our TAs in the art of teaching, to reshape the program as an internship and to expose our students to a variety of career experience and prepare them for the demands of the profession, as, for example, 698: The Research Essay introduces them to the world of professional publication. The Freshman English Committee and the Directors of Freshman English should be given credit for setting up instruction for the first semester Teaching Assistants.

A review of the past year is not complete without thanking the Graduate Committee for their wisdom and advice and willingness to help: Pat Smith, Bob Fleming, Pat Gallacher, Barry Gaines, and the student representative, Mark Facknitz. Thanks also to Ivan Melada, who served on the Examining Committee with the regular members, and to the Proctors who supplied the M.A. and Ph.D. exam questions: Joe Zavadil, David McPherson (he of the magical counterfeit-proof ID system), Jim Thorson, Bill Dowling, Ivan Melada, Bob Fleming, and Hugh Witemeyer. And to the P & P Committee for their consideration and reshaping of some of our proposals.

Next year the emphasis will be again upon the language requirement and salaries for Teaching Assistants and Teaching Associates. We need to urge the departments that offer the 365-366 sequence for graduate students to standarize and monitor their courses so that we can recognize them. We need to persist in seeking a decent and competitive wage for our young people. And finally we need to secure a journal or journals for the Department. It would enhance the reputation of the Department and offer our graduate students editorial experience. Meetings were held by the American Literature people this year and more will follow.

Teaching Assistant Salaries

	Pre-M.A.	Post-M.A.	Load	Avg.	Adj. Salary
Arizona-Tucson (2)	5900	6300	same	6100	6100
U.C.-Berkeley (1)	N/A	6885	2/3	6885	10,325
U.C.-Davis (1)	N/A	6885	2/3	6885	10,325
U.C.L.A. (1)	6885	7632	1/2	7258	14,517
Colorado-Boulder (2)	N/A	6250	same	6250	6250
Co. State-Ft. Collins (2)	3947	N/A	same	3947	3947
Illinois-Urbana (3)	7008	7502	same	7255	7255
Indiana-Bloomington (3)	N/A	4430	3/4	4430	5907
Iowa-Iowa City (3)	6765	6930	per crs	6846	9128
Kansas-Lawrence (3)	5000	5200	same	5100	5100
Nebraska-Lincoln (3)	N/A	6600	same	6600	6600
Nevada-Las Vegas (2)	5100	N/A	same	5100	5100
Oregon-Eugene (1)	5044	5712	same	5378	5378
Ok. State-Stillwater (2)	4500	5400	same	4950	4950
Oklahoma-Norman (2)	4200	4400	same	4300	4300
Texas A&M-College Station	4750	5370	same	5060	5060
Utah-Salt Lake City (2)	4400	5000	3 crs	4700	6268
Washington-Seattle (1)	6066	6426	3/4	6246	8328
Texas-Austin (2)	5000	5500	same	5250	5250
Houston-Houston (2)	5000	6000	same	5500	5500
New Mexico-Albuquerque (2)	4600	4900	same	4750	4750

Teaching Assistant Salaries

Regional Comparisons

Pacific Area (1)

	Pre-M.A.	Post-M.A.	Avg.	Adj. Salary
U.C.-Berkeley	----	6885	6885	10,32
U.C.-Davis	----	6885	6885	10,325
U.C.L.A.	6885	7632	7258	14,517
Oregon-Eugene	5044	5712	5378	5378
Washington-Seattle	<u>6066</u>	<u>6426</u>	<u>6246</u>	<u>8328</u>
	5998	6708	6530	9776
New Mexico-Albuquerque	<u>4600</u>	<u>4900</u>	<u>4750</u>	<u>4750</u>
	(1398)	(1808)	(1780)	(5026)

Southwest Area (2)

	Pre-M.A.	Post-M.A.	Avg.	Adj. Salary
Arizona-Tucson	5900	6300	6100	6100
Colorado-Boulder	----	6250	6250	6250
Co. State-Ft. Collins	3947	----	3947	3947
Nevada-Las Vegas	5100	----	5100	5100
Ok. State-Stillwater	4500	5400	4950	4950
Oklahoma-Norman	4200	4400	4300	4300
Texas A&M-College Station	4750	5370	5060	5060
Utah-Salt Lake	4400	5000	4700	6268
Texas-Austin	5000	5500	5250	5250
Houston-Houston	<u>5000</u>	<u>6000</u>	<u>5500</u>	<u>5500</u>
	4755	5527	5116	5272
New Mexico-Albuquerque	<u>4600</u>	<u>4900</u>	<u>4750</u>	<u>4750</u>
	(155)	(627)	(366)	(522)

Midwest Area (3)

	Pre-M.A.	Post-M.A.	Avg.	Adj. Salary
Illinois-Urbana	7008	7502	7255	7255
Indiana-Bloomington	-----	4430	4430	5907
Iowa-Iowa City	6765	6930	6846	9128
Kansas-Lawrence	5000	5200	5100	5100
Nebraska-Lincoln	-----	<u>6600</u>	<u>6600</u>	<u>6600</u>
	6257	6132	6046	6798
New Mexico-Albuquerque	<u>4600</u>	<u>4900</u>	<u>4750</u>	<u>4750</u>
	(1657)	(1232)	(1296)	(2048)

SURVEY OF GRADUATE RESEARCH ASSISTANT STIPENDS

(HALF TIME EQUIVALENT)

UNIVERSITY OF NEW MEXICO

1981-82

INSTITUTION	FTE	HDCT	CASH SALARY			NON-RESIDENT						RESIDENT					
			MIN	AVG	MAX	TUITION AND FEES PAID		REMITTED		AVG NET COMP		TUITION AND FEES PAID		REMITTED		AVG NET COMP	
						MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ARIZONA			4320		6480				2300								
ARIZONA STATE			4320		6480												
UC BERKELEY	1943		5661	5661	5661	3746	3746	0	0	3553	3553	866	866	0	0	4795	4795
UC LOS ANGELES	1057		5661	3847	6521	3726	3726					846	846				
COLORADO			5469		5469	26	224	1206	4012	6649	9257	26	224	276	928	5719	6173
COLORADO STATE	528	620	3240	4095	5103	236		3423		7282		236		779		4638	
IDAHO STATE						0	0					0	0				
KANSAS	87	216	2418	4287	7200	70	926					34	386				
KANSAS STATE			3375		6750												
MONTANA		30															
NEW MEXICO			4719	5171	7254	0	0	2226	2226	8226	9480	0	0	714	714	6714	7968
OKLAHOMA	25	49	3333	4650	6000	362	832	552	1472	4288	3818	362	832	0	0	4288	3818
OKLAHOMA STATE	84	875	3375	4275	6525	35	35	180	600	3520	7090	35	35	63	210	3403	6700
OREGON STATE	291	967	3670	5672	7075	252		2820		8240		252		1638		7058	
UTAH STATE		105	1100	3555	6000	146	256	245	421	3654	3720	146	256	0	0	3409	3299
WASHINGTON			5652		6372												
WASHINGTON STATE			5823	5999	6174	1240		2360		7119		1240		0		4759	
AVERAGE	203	651	4142	4721	6338	820	1083	1446	1576	5837	6153	337	383	386	309	4976	5459
MEDIAN	87	620	4320	4469	6480	191	256	1206	1472	6649	5454	191	256	63	105	4759	5484
MINIMUM	25	30	1100	3555	5103	0	0	0	0	3520	3553	0	0	0	0	3403	3299
MAXIMUM	528	1943	5823	5999	7254	3746	3746	3423	4012	8240	9480	1240	866	1638	928	7058	7968

D. Undergraduate Studies
Paul Davis, Director

One of the recommendations of the Curriculum Revision Committee in 1980 was that a Director of Undergraduate Studies was needed in the department to coordinate the undergraduate program and to advise undergraduate students. The position had been vacant for several years and its functions scattered among several faculty and staff members or neglected altogether. When I took over the position in August I tried to reconnect some of these scattered activities and address the most pressing problems, especially the difficulty with low undergraduate enrollments.

Dwindling enrollments in 300 and 400-level courses have caused the cancellation of numerous upper division classes and seriously limited course offerings for majors and minors. Our general literature program has also suffered: eighteen sections of general English classes at the 200-level were cancelled in the Fall and Spring semesters. In November the College of Arts and Sciences counted 121 English majors. Over the year, at commencements in the Summer and Fall of 1981 and the Spring of 1982, we graduated a total of 34 English majors (including six in creative writing) and 22 English minors. Clearly our first priority has to be to increase the number of students in our major and minor programs and in our general literature classes to levels appropriate in a university of 22,000 students.

The Major Curriculum

Recent revisions of the undergraduate curriculum meant that there was little need for changes in departmental offerings, but since this

was the first year of the new multi-track major a good deal of student advising was necessary to acquaint students with their options and explain the new tracks.

To make the apparent complexity of the new system less puzzling, we prepared brochures describing each major track. These brochures, which include a chart visualizing the requirements for the major, help students plan their programs and record their progress. They have also been useful in recruiting and counselling prospective majors.

Overall the track system has been a success. A majority of our current majors are in the Liberal Arts Concentration, the track most closely resembling our former major, but students have enrolled, or at least expressed strong interest, in all eight tracks, including comparative literature. Of the new concentrations, Pre-Law is clearly the most popular. English 315, Law and Literature, for example, enrolled 29 students in the Spring semester. The English-Philosophy program is also strong. English 480, the English-Philosophy seminar, enrolled 16 students and our outstanding graduating senior, Ruth Pregenzer, who completed her degree with an overall 3.9 GPA, winning the Telfair Hendon Prize and graduating Summa Cum Laude, was enrolled in this program. There has been only modest interest in the Pre-Graduate track, predictably low interest in comparative literature, and, surprisingly, little interest in the Pre-Business Concentration. We are offering courses in business and literature and business writing during the coming year, and we expect greater interest in the pre-business program to develop out of these courses.

One area of considerable student interest that our curriculum does not address sufficiently is professional writing. A substantial number

of our majors choose English as a major in writing rather than literature and many of these students are interested in technical writing, business writing, or "journalism" rather than creative writing. We have received many requests for more technical writing and other professional writing courses at upper levels in the curriculum and inquiries about a major or minor to prepare for various kinds of professional writing careers. A departmental task force on professional writing, inspired by Morris Eaves, met several times during the year and an initial proposal for a distributed minor in professional writing will be presented to the department early next semester.

The Sophomore Program

The new curriculum seems to have mitigated many of the problems with our old course structure at the 200-level. More of our majors, for example, seem to be taking 202 and the survey courses appropriately early in their academic careers. 201 also seems to be slowly gaining recognition as the main course for non-majors, and teachers in the course are generally excited about the students and about the quality of their work. But the numbers enrolling in 201 are growing only slowly. Indeed there is a general weakness in enrollments in the sophomore program. The national lack of interest in the humanities partly explains this weakness, but I think that our emphasis on composition is probably also a factor. Many students who have taken two or more semesters of composition may be "Englished out" or they may just have no more room for English electives in their programs. Some faculty members believe that we need to seek a specific literature requirement as a way of insuring that literature remains a part of the general education of UNM students. Certainly our non-major enrollments in recent years indicate that the

University is graduating many unlettered students.

Student Relations

As a legacy of the sixties, the University's academic advising system is characterized by incoherence; our departmental advisement has been especially hit and miss. After becoming Undergraduate Director, I quickly became aware that advising was our most pressing need in the undergraduate program, particularly with several new major options for students to choose from. Much of my time during the last year has been spent counselling majors and prospective majors. I have established "departmental" contact with enough students so that I now need help with advising. Early next semester, I plan to reconstitute an undergraduate committee composed of advisors for each of the heavily enrolled concentrations.

To increase the number of majors and minors, I have also started a recruitment program. At the end of each semester, I have written letters to the best students in English 102 and in several other lower division courses commending their work and inviting them to talk to me about majoring or minoring in English. Many of these students have come to see me and they are all flattered by the recognition their work has received. Even if they do not decide to major in English, they will probably take more English courses. The effectiveness of this letter-writing scheme depends on getting information on our top students from as many faculty members as possible.

A strong departmental honors program can also be an important factor in encouraging good students to major in English. As far as I know, Ruth Pregoner was the only senior pursuing departmental honors this year, and she was an English-Philosophy major. We need to revive interest in

our honors program. I have suggested to several of our better students, particularly our pre-graduate students, that they consider applying for honors, so that we should have more students in the program during the coming year. Faculty also need to encourage these top students, particularly those in 400-level classes, to inquire about departmental honors. A strong honors program can help to give coherence and set a standard of achievement for our undergraduate major.

We have also tried to recognize achievement by renewing several undergraduate academic prizes. Ruth Pregonzer received the Telfair Hendon, Jr. Memorial Award for the graduating senior with the highest scholastic record in English. The Katherine Mather Simms Prize for the best essay by a student in a 300 or 400-level course garnered a number of very good entries. The judges, David McPherson and Mary Bess Whidden, agreed that Timothy Peterson's essay on "The Subject of Death in the Old Testament" deserved the \$100 first prize. Three runners-up were also selected for \$25 awards: Patricia O'Connor, Carolyn Seidel, and James Bradley. All of the students whose work was submitted for the Simms Prize were clearly good candidates for departmental honors.

Next Steps

I believe our most important effort in the next year needs to be to make visible our commitment as a department to undergraduate education. Some steps we can take to this end include reviving the undergraduate committee, including several more faculty members as advisors to undergraduate students, and rebuilding the departmental honors program. Other suggestions that various people have made for increasing our departmental contact with undergraduate students include publishing a journal of undergraduate writing, holding lectures or panel discussions directed

toward undergraduate students, creating a student lounge, library, or study hall. I would be grateful for any other ideas or for your reactions to any of these proposals.

s/ Paul Davis
Associate Professor of English
Director, Undergraduate Studies

III. OTHER DEPARTMENTAL ACTIVITIES

A. The Department sponsored the following lectures during the year:

1. October 15, Charles Tomlinson, a visiting professor at Princeton University, a Reader in English Poetry at the University of Bristol, Bristol, England, gave a public lecture, entitled "Tree or Stone?" This lecture was the main event of the Witter Bynner Celebration, which was supported by a grant from the Witter Bynner Foundation for Poetry, Inc. in Santa Fe, NM. The award was awarded jointly to the English Department and the General Library.

2. December 2, Maurice Kenny, a widely-respected Native American poet and editor, read from his work to faculty and students.

3. December 3, Frank D'Angelo, Professor of English at Arizona State University, gave the annual exchange lecture, entitled "The Teaching of Writing: A Developmental Perspective."

4. January 19, Joan E. Hartman, Professor and Chairman of the English Department at the College of Staten Island, NY., presented a public lecture on the opportunities for Women's Studies Publications.

5. January 27, Michael Anania, Professor of English and creative writing at the University of Illinois at Chicago Circle, gave a reading from his work. The reading was co-sponsored by the English Department, the GSA Poetry Series and the Rio Grande Writers Association.

6. February 12, Janet Adelman, Professor of English, University of California, Berkeley, distinguished in Freudian aspects of Shakespeare, presented a lecture entitled "Male Bonding in Shakespeare's Comedies." Co-sponsored with the Psychology department.

7. February 22, Roger Hall, successful and well-known playwright, Professor of English at the University of Otago, Dunedin, New Zealand,

gave a lecture on "Contemporary New Zealand Drama." Co-sponsored with Theatre Arts Department.

8. March 22, Professor Robert Creeley, Gray Professor of Poetry and Letters at SUNY, Buffalo, NY, one of the most distinguished living American poets and an alumnus of UNM, gave a public lecture on "Literature and Photography in the Southwest." Co-sponsored with the Arts Museum.

9. April 15, Professor Larry D. Benson, Professor, Chairman, Department of English, Harvard University, gave an interdisciplinary lecture on Courtly Love and Chivalry. Co-sponsored with Graduate Studies.

10. April 19, John Balaban, internationally known poet, Associate Professor of English, Pennsylvania State University, read his poems from a newly published collection called Blue Mountain.

IV. ANNUAL REPORT ON ACTIVITIES OF INDIVIDUAL FACULTY MEMBERS

1. ADVANCED STUDY

Michael Fischer

- Attended the School of Criticism and Theory, Summer, 1981, Northwestern University, Evanston, Ill.

2. SABBATICALS, ETC.

Rudolfo A. Anaya

- Sabbatical, Spring semester, 1982
- Travel-Mexico for research and writing, summer 1981

Lee A. Bartlett

- Summer research at U.C. Berkeley and U.C.L.A.

Helen Damico

- Travel, University Archive, University of Minnesota, Minneapolis, Minn., May 28-June 16, 1981.
- Research on Fr. Klaeber (important scholar in Anglo-Saxon Studies), for forthcoming biographical article.

Michael Fischer

- Sabbatical leave 1982 Spring

Robert E. Fleming

- Research at John F. Kennedy Library, Ernest Hemingway papers, Boston, Mass., for two weeks in June.

Gene Frumkin

- Visiting Exchange Professor at the University of Hawaii, 1981-82.

Barry Gaines

- Summer research at the Folger Shakespeare Library, Washington, D. C.

Hamlin Hill

- NEH Summer Seminar for College Teachers, Director, Summer 1981
- Appointment as Guest Professor, University of Würzburg, Germany, Summer, 1982.

David R. Jones

- Fulbright lecturing grant, University of Waikato, Hamilton, New Zealand, May-November 1981, in American Drama.

Mary Power

- Visiting Associate Professor, University of Wisconsin, Madison, Wi., 1981-82.

Harvena Richter

- October, 1981, travelling through France.

gave a lecture on "Contemporary New Zealand Drama," Co-sponsored with Theatre Arts Department.

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2. continued

James L. Thorson

- Travel to San Francisco for annual meeting of the American Library Association, June 1981.
- Travel to Austin, Texas for meeting of South Central Society for Eighteenth-Century Studies, March 1981.
- Travel to Gallup for research on Philip Stevenson, February 1981.

Mary Martha (Marta) Weigle

- Washington, D.C. June 1981, for grant research in Library of Congress and National Archives.

Peter White

- Fulbright Senior Lecturer in American Literature, University of Selesia, Katowice, Poland, 1980-81.
- Lecturers in Germany and throughout Poland.

3. NEW SCHOLASTIC HONORS, ETC.

Rudolfo A. Anaya

- Honorary Doctorate-Doctor of Humane Letters, University of Albuquerque
- Delta Kappa Gamma, NM Award for Literature
- Honorary member, Sigma Delta Pi, University of Albuquerque

Lee Bartlett

- Faculty Research Allocations Committee Grant (UNM).

William C. Dowling

- Fellow, Institute for Advanced Studies in the Humanities, Edinburgh University, 1982-83 (elected).

David K. Dunaway

- Faculty Enrichment Fellowship--Government of Canada, for Summer, 1982.
- Book on Pete Seeger nominated for American Book Award in Biography.

Michael Fischer

- Fellowship, The School of Criticism and Theory, Summer 1981.

Robert E. Fleming

- RAC grant for research in the Hemingway collection, Summer 1981.

Barry Gaines

- Elected to MLA Delegate Assembly
- Editorial board, Medieval & Renaissance Drama in England

Hamlin Hill

- President, American Humor Studies Association, 1982
- Recipient of the UNM Annual Research Lecture Award, 1982

Tom Mayer

- reappointed contributing editor Aviation Consumer

3. continued

David Remley

- Research Allocations Committee Grant (\$1600), Summer 1981, for research in Germany on the western writing of Karl May.

James Thorson

- Honored by President Davis for fifteen years of service; participation in the Outreach Program; and Legislators' Day.
- President, UNM Fulbright Alumni Association.

Mary Martha (Marta) Weigle

- Year's extension (through 1981) and \$15,000 supplement to NEH grant (1979-80, \$42,400).
- Awarded Colonel-Aide-de-Camp, by Roberto A. Mondragon, Lt. Gov. of New Mexico, "In recognition of dedication and appreciation of your efforts towards the preservation of New Mexico History and Culture," 15 September, 1981.

4. PUBLICATIONS

Rudolfo A. Anaya

- Editor, Ceremony of Brotherhood (Academia Publications, Albuquerque, 1981).
- "B. Traven is Alive and Well in Cuernavaca," Short Story (Escolios, Vol. IV. no. 1-2, May-November, 1979 (c) 1981).
- "Southwest Christmas" an essay (Los Angeles Times, Sunday, December 27, 1981.... In Part IV page 3).
- "The Courage of Expression," a speech originally presented to the New Mexico Council of Teachers of English, reprinted as an article in: (Century: A Southwest Journal of Observation and Opinion, December 2, 1981, pp. 16-18).
- In Commemoration: One Million Volumes," an essay commemorating the University of New Mexico Millionth Volume Celebration, published in: A Million Stars: The Millionth Acquisition for the University of New Mexico General Library, The University of New Mexico General Library, Albuquerque, 1981, pp. 9-15).

Sharon Barba

- poems in: New Amazon Poetry, ed. Larkin & Bulkin, Persephone Press, April, 1981; New America: Women Writers & Artists of the Southwest issue, 3'82.

James F. Barbour

- "Nineteenth-Century Black Novelists: A Checklist," Minority Voices, 3 (Fall 1979), 27-43 (with Robert Fleming).
- The Natural and the Shooting of Eddie Waitkus," Midwestern Miscel-lany, IX (1981), 61-68 (with Robert Sattlemeyer).

Lee A. Bartlett

- Books: The Beats: Essays in Criticism (McFarland), 1981.
- poems: Fishbones," Poetry, May, 1981, pp. 100-01, "Poem for Children Staying Alone at Night," "The Signs," "The Operation," The Bellingham Review (Spring 1981, pp. 11-13).

4. continued

Helen Damico

- "The Valkyrie Reflex in Old English Literature," Allegorica, forthcoming issue, 1982. 18 pages.
- Book: "Beowulf's Wealththeow and the Valkyrie Tradition," accepted by The University of Wisconsin Press.

Paul B. Davis

- "Dickens, Hogarth, and the Illustrated Great Expectations," accepted by The Dickensian.

William C. Dowling

- Book: Language and Logos in Boswell's Life of Johnson, Princeton University Press, 1981).

David K. Dunaway

- How Can I Keep From Singing: Pete Seeger, (McGraw Hill, 1981), Book, 386 pages.
- "Cecil Sharp," Review of biography by A. H. Strangways, Ethnomusicology, Vol. 25, No. 2, (Fall, 1981) pp. 327-28.
- "Politics and Music," New York Times, Houston Chronicle, 10/10/81.

Morris Eaves

- William Blake's Theory of Art, a book accepted for publication by Princeton University Press Publication, forthcoming, August '82.

Michael Fischer

- Review, "Blake's Poetry and Designs," Blake An Illustrated Quarterly, 14 (Spring, 1981), 215-16.
- Article, "Deconstruction: The Revolt against Gentility," democracy, 1, (October, 1981), 77-86.
- Review, The Reader in the Text, Philosophy and Literature, (Fall, 1981).
- article: forthcoming: "Morality and History in Coleridge's Political Theory," Studies in Romanticism.

Robert Fleming

- Charles F. Lummis, Boise, Idaho, Boise State University, 1981, (Western Writers Series, #50).
- "Adolph F. Bandelier" and Charles F. Lummis," in Southwestern American Literature: A Bibliography, Ed. by Anderson, Gaston, & Lee. Chicago: Swallow, 1980, pp. 182-84, 344-46.
- "Nineteenth Century Black Novelists: A Checklist," Minority Voices, 3, no. 2 (Fall 1979), 27-43. (with James Barbour).
- "When Hemingway Nodded: A Note on Firearms in 'The Short Happy Life,'" Notes on Modern American Literature, 5 no. 2, (Summer 1981), item 17.
- Report of "The Novels of Ronald L. Fair," in Contemporary Literary Criticism. Detroit: Gale Research, 1981, Vol. 18, 140-41.
- Review of The "Hindered Hand": Cultural Implications of Early Afro-American Fiction. By Arlene Elder. Studies in the Novel,

Robert Fleming, continued
-12 (Winter 1980), 382-83.

Cheryl Fresch

- "'As the Rabbines expound': Milton, Genesis, and the Rabbis," Milton Studies, XV (1981), 33 pages.
- "'And brought her unto the man': The Wedding in Paradise Lost," 19 pages. Accepted by Milton Studies, XVI (1982)..

Gene Frumkin

- Book: (poems) Clouds and Red Earth, Swallow Press, Ohio University Press (Athens, Ohio; Chicago, London), 68 pp.
- Anthology (fiction) "The Happy Man," Towards the Twenty-first Century: Tales of Terror, Mystery and Mercy, Red Earth Press (Corrales, New Mexico), 1981, pp. 97-102.
- Poems: "The Mataphysics of Paper," "The Trouble with Lying," "The Kid Who Drew Horses," The Chariton Review, Vol. 6, No. 2, pp. 37, 38.
- "Child's Play," "Georgia O'Keeffe and the Greek," Copula, Vol. 1 No. 2, pp. 9, 10.
- "Un/Saying," "The Bottom," Copula, Vol. 1, No. 3, pp. 13, 14.
- "A Uniform Solution," Kayak, No. 56, p. 51.
- "Badlands," "Another Life," "Reaching," South Dakota Review, Vol. 19, No. 3, pp. 92-94.
- Review: "Such a Fellow" (review of Talfuiano, by Bill Rane), Puerto del Sol, Vol. 16, Spring 1981, pp. 118-121.

Barry Gaines

- "Another Example of Dialect from the Nurse in Romeo and Juliet," Shakespeare Quarterly, 32 (1981), 96-97.
- Review of Page West Life, Sir Thomas Malory and the Morte Darthur in South Atlantic Review, 46 (1981), 109-112.

Patrick J. Gallacher

- "Dame Alice and the Nobility of Pleasure," forthcoming in summer, 1981 in Viator.
- "Perception and Reality in the Miller's Tale," forthcoming in The Chaucer Review.

Hamlin Hill

- Editor, Mark Twain's Wapping Alice, Berkeley: The Bancroft Library, 1981.
- Editor, Roughing It, New York: Penguin Books, 1981.
- "Mark Twain Goes to War," The Dial, 11, 4 (April, 1981), 42-43.
- Review, Gribben, Mark Twain's Library, American Literary Realism, 13:298-299 (Autumn, 1980).

David Johnson

- Articles:
- "Time Must Have a Stop: In Memory of Bainbridge Bunting," Century, v. 1, #18 (June 17, 1981).

4. continued

David Johnson, continued

articles:

"Where is New Mexico? Myth and Reality," New Mexico Humanities Council, April 1981. Published in 8 New Mexico newspapers.

"Creation versus Evolution: A Conflict of Mythologies," Century: A Southwest Journal of Observation and Opinion, v. 1, #20, (July 15, 1981).

"Cosmos and History in the Myth of Quetzalcoatl," North American Mentor Magazine, v. XIX, #4 (Winter, 1981).

-Review: Heart of Aztlan by Rudolfo Anaya, published in Puerto del Sol, v. 16 (Spring 1981).

-Poems:

"Sitting on the World," New Laurel Review, v. X, #1 (Spring 1980), actually published Spring 1981.

"Mexican Pharmacy," Puerto del Sol, v. 16 (Spring 1981).

"Patriarch in the Midwest," Writers Forum 7 (Spring 1981).

"State Fair," Century, v. 1, #24 (September 16, 1981).

"Don't Touch Me," Century, v. 1, #22 (August 19, 1981).

"Handkerchief," Century, v. 1, #22 (August 19, 1981).

"How Would You Like It, Dad?" Southwest Heritage, v. 11, #2 (Summer 1981).

"Nightmare," The New Mexico Independent, v. 85, #16 (Dec. 19, 1981).

"Patriarch in the Midwest," Southwest Heritage, v. 11, #1 (Spring 1981).

"The Third Generation," Southwest Heritage, v. 11, #3 (Fall 1981).

David Jones

-Four Directors, Four Productions, book-length study of famous theatrical productions, accepted by University of California Press for publication, 1982.

Antonio Marquez

-"The Nightmare of History and Thomas Pynchon's Gravity's Rainbow," Rainbow, Essays in Literature (Spring 1981), 53-62.

-essay: "The Promise and Failure of Literatura Chicanesca," New Mexico Humanities Review, (Spring 1981), pages 5-10.

Thomas Mayer

-articles:

"Haybarn Leg," Aviation Consumer, March '81, 6 pages

"Followup," Aviation Consumer, May '81, 1/2 page

"TCP and Leadfouling," Aviation Consumer, June '81, 4 pages

"Cleveland Brakes Aren't Perfect," Aviation Consumer, Oct. '81, 6 pages.

David McPherson

-"Roman Comedy in Renaissance Education," Sixteenth Century Journal, XII (1981), 19-30 (listed in 1980, but without precise bibliographical citation).

-"The Attack on the Stage in Shakespeare's Time," accepted by Comparative Literature Studies (listed in 1980 as "tentatively accepted").

4. continued

Ivan Melada

- Review of The Victorian Historical Novel 1840-1880, by Andrew Sanders, Dickens Studies Newsletter, 11 (1980), 122-24.
- "Graham Greene and the Munitions Makers: the Historical Context of A Gun for Sale," Studies in the Novel, 13 (1981), 303-21.

Peter C. Page

- "Masada: Freedom or Fanaticism?" Black and White (Albuquerque) Vol. 2, No. 2 (May-June 1981), published under pseudonym Tex S. Tenchle.

Mary Power

- "The Discovery of Ruby," James Joyce Quarterly, pp. 151-121, Winter, 1981.
- Review of three books on Joyce, Modern Fiction Studies, pp. 316-20, Summer, 1981.
- "Joyce and Bloomsday," Century Magazine, 1 July, 1981.

David Remley

- article: "Granville Stuart, Cowman: 'To Struggle Against an Adverse Fate,'" Montana: the Magazine of Western History, Summer 1981, pp. 28-42.
- short story: "Hedgeapple Mules," Southwest: Towards the Twenty-first Century, Tales of Terror, Mystery and Mercy, Corrales, NM., Red Earth Press, 1981.

Harvena Richter

- poems in Home Forum, Christian Science Monitor
- "The Old Trees," May 4, 1981, p. 20.
- "Green Noon," June 23, 1981, p. 21.
- "Revelation," August 18, 1981, p. 20.
- "A Scent of Mosses" (essay--January 11, 1982.
- "Collecting Chapels" (essay & poem) March 11, 1982.
- "Sheryl Rising" poem (March 17, 1982).
- Sassafras, Leaves," poem, New Mexico Independent, Vol. 86, no. 17.
- forthcoming: (poem) "Corn Mother," New America, 1982.
- (novel chapter), "The Storm," South Dakota Review, Winter, 1982.
- essay: "The Hours" in Mrs. Dalloway, as yet unscheduled, Modern Fiction Studies.
- essay-review: "Virginia Woolf and the Creative Critic," in REVIEW, no. 3, (University of Virginia Press, Charlottesville), 1981.
- completed: essay "The Biographer as Novelist" for essay collection to be published late '82 by University of Hawaii Press, ed. Gloria Fromm.

Patricia C. Smith

- "Coyote Ortiz: Canis latrans latrans in the Poetry of Simon Ortiz," Minority Voices, III, v. 2 (Fall 1979) pp. 1-18. To be reprinted in Studies in Native American Literature, ed. P. G. Allen, (MLA Publications, forthcoming spring 1982).

4. continued

Patricia C. Smith, continued

- "Ain't Seen You Since; Dissent Among Female Relatives in Native American Women's Poetry," (MLA Publications, forthcoming spring 1982).
- "Chee Dostoevsky Rides the Reservation: A Survey of Native American Literature Since Momaday," with P. G. Allen. Chapter in A Literary History of the American West, ed. J. Golden Taylor, forthcoming, summer, 1982.

James L. Thorson

- "Gomorrhah on the Puerco: A Critical Study of Philip Stevenson's Proletarian Epic, The Seed, in press in High Plains Insurgency: Labor History in New Mexico, ed. Robert Kern, UNM Press, 32 pages with Connie C. Thorson.
- Reflections of Oxford in The Expedition of Humphry Clinker," article in Oxford, forthcoming, spring, 1982, 16 pages.

Mary Martha (Marta) Weigle

- "About Cleofas Martinez de Jaramillo," in The Genuine New Mexico Tasty Recipes, by Cleofas M. Jaramillo, pp. 19-20 (Santa Fe: Ancient City Press).
- Guadalupe Baca de Gallegos' "Los tres preciosidas (The Three Treasures)" : Notes on the Tale, its Narrator and Collector, New Mexico Folklore Record 15: 31-35.
- "The Penitente Brotherhood in Southwestern Fiction: Notes on Folklife and Literature," in Sam B. Girgus, ed., The American Self: Myth, Ideology and Popular Culture, pp. 221-30, (Albuquerque: University of New Mexico Press).

Mary Bess Whidden

- Articles published in Century: A Southwest Journal of Observation and Opinion:

- "a. illegal, b. dangerous, c. peculiar," May 20, 1981, p. 5.
- "Be A Forest Ranger," June 17, 1981, pp. 8-9.
- "Dog Days at the Mail Box," July 1, 1981, pp. 23-24.
- "The New Yellow Peril," July 15, 1981, pp. 8-9.
- "Abscess Lorraine," August 5, 1981, p. 5.
- "A Mavis Foster Day," August 19, 1981, pp. 6-8.
- "Camp Camp, September 2, 1981, pp 5-6.
- "A Guide to Guides to Assertive Behavior," September 16, 1981, pp. 6-7.
- "Grocery Store Pleasures," October 7, 1981, pp. 6-7.
- "The Color of Your Parachute," November 4, 1981, pp. 24-26.
- "Course Offerings," November 18, 1981, pp. 5-7.
- "Get A Tuffet," December 2, 1981, pp. 5-7.
- "Twenty-Three Pomeranians," December 16, 1981, pp. 6-7.
- "Garbo Is There," January 6, 1982, p. 5.
- "Tell Us, Inc.," January 20, 1982, pp 5-7.
- "Through the Molasses Darkly," February 3, 1982, pp. 5-6.
- "Thank You for Your Letter," March 3, 1982, pp. 25-26.
- "She Never Was a Clerk," March 17, 1982, pp. 7-9.

4. continued

Peter White

- Introduction to Emerson Hough's Heart's Desire, University of Nebraska Press, Dictionary of Literary Biography, "Emerson Hough," vol. 9, p. 140-45.
- Associate Editor, Minority Voices, The Pennsylvania State University, vol. 3, no's 1 and 2.

Hugh Witemeyer

- The Poetry of Ezra Pound: Forms and Renewal, 1908-1920, University of California Press, paperback edition, 1981.
- Review of Ellen Eve Frank, Literary Architecture: Essays Toward a Tradition, in Modern Language Quarterly, 41 (December 1981), pp. 387-89.

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS, ETC.

Rudolfo A. Anaya

- Corporation for Public Broadcasting Award to write a teleplay from and original idea. Title: Rosa Linda.
- Short Story collection in progress for publication.
- Worked on novel while in Mexico.

James F. Barbour

- articles on Hemingway ("A Very Short Story," "Three-Day Blow," "Mr. and Mrs. Eliot"), Cather (The Professor's House and "Suicide in Cather"), Bouton (Ball Four with Bill Dowling), Lardner (You Know Me Al), and others.

Lee A. Bartlett

- Accepted for publication: Book: Birth of a Poet: William Everson's Santa Cruz Meditations, (Black Sparrow Press, due 2/82).
- Articles: "Gary Synder's Myth's & Texts & the Monomyth," (Western American Literature), forthcoming.
- "American Poetry, 1940's to the Present," (American Literary Scholarship), forthcoming.
- "On Creeley's 'I Know a Man,'" and "On Everson's 'Prologue'" (Explicator), forthcoming.
- Reviews: "On Robert Bly's News of the Universe," forthcoming winter, '82 issue, Western American Literature, 4 pages.
- "Roberta Berke's Bounds Out of Bounds," forthcoming, spring '82 issue, Western American Literature, 2 pages.
- "Three Bibliographies: Ginsberg, Bishop, and Black Sparrow," forthcoming, spring '82 issue, Arizona Quarterly, 4 pages.
- "Ezra Pound and James Dickey: A Correspondence and a Friendship," by Lee Bartlett and Hugh Witemeyer has been completed--will appear in Paideuma.
- commissioned to write a monograph on K. Rexroth, for Boise State University series of studies of western American American writers.

LynnDianne Beene

- Began work on the Rocky Mountain Linguistic Atlas.

5. continued

Helen Damico

- Grant from NEH; NEH Summer Institute, The Teaching of Medieval Civilization, sponsored by the five-college consortium of Western Massachusetts, June 22-August 2, 1981. Stipend of \$2,250., plus transportation costs. Project was involved with curriculum renewal in Early Medieval Studies on the undergraduate level and proposed a syllabus for a sophomore-level course in Medieval Culture with an interdisciplinary, cross-cultural approach.
- Book: "Beowulf's Wealththeow and the Valkyrie Tradition," accepted for publication by The University of Wisconsin Press.
- article: "Sbrlápattr and the Hama Episode in Beowulf," (circulating).
- proposal to Graduate Studies, for Symposium on Medieval Studies (April, 1982. Partial funding received.

Paul B. Davis

- article: "Darwin and the Cannibals: The Feast-Fight in Chapter 11 of Great Expectations," (circulating).
- Work in progress on Great Expectations, Oliver Twist, The Christmas Carol Survey of Victorian Periodical holdings in the UNM libraries for the Union List of Victorian Serials.

William C. Dowling

- Continued research on "The Epistolary Moment" (book on internal audience in the 18th-century verse epistle).

David K. Dunaway

- Research-in-progress: monograph on sociolinguistics in English; anthology of Oral History
- Grants: New Mexico Humanities Council--"Scholar in Residence at KUNM" \$8,000: resubmission in progress.
Canadian Government--received funds for course development and research in Canadian-American Studies (\$3,125).

Morris Eaves

- Book: Romantic Texts, Romantic Times: a special issue of Studies in Romanticism, in honor of David V. Erdman, edited by Morris Eaves, Fall, 1982.
- Articles:
 - "Scholarship and Politics: An Interview with David V. Erdman," to introduce the special issue of Studies in Romanticism.
 - "Teaching Blake's Relief Etching," for Sparks of Fire, a special issue of 10. Reprinted from Blake/An Illustrated Quarterly (1979-80).
- Reviews:
 - of Leopold Damrosch, Jr., Symbol and Truth in Blake's Myth: JEGP 1982.
 - of David Alexander and Richard T. Godfrey, Painters and Engraving: The Reproductive Print from Hogarth to Wilkie: The Eighteenth Century: A Current Bibliography 1982.
 - of Martin Butlin, The Drawings and Paintings of William Blake,

5. continued

Morris Eaves, continued
2 vols.: Studies in Romanticism 1982.

Rick Anthony Eden

- In progress:
- "Paraphrasing for the Reader," being revised for College Composition and Communication.
- "The Formal Detective Novel as Satire," article.

Michael Fischer

- Articles (submitted for publication):
- "The Literary Importance of E. P. Thompson's Marxism."
- "Literature and Socialism in the Work of E. P. Thompson."
- "Literature as Communication: A Critique of Jacques Derrida."
- Book: (first draft completed): Romanticism Reconsidered: The Defense of Poetry in Modern Criticism.
- Article: "Marxism and English Romanticism: The Persistence of the Romantic Movement" (32 pages typescript) by Romanticism Past and Present.

Robert E. Fleming

- Intro to Charles F. Lummis's A Tramp Across the Continent, to be republished by University of Nebraska Press in Bison series, summer 1982.
- Article on Willard Motley done for Dictionary of Literary Biography for 1982.
- One article on Lewis and two on Hemingway submitted to journals.

Cheryl Fresch

- In progress:
- "The Education of Adam and the Story of Noah in Paradise Lost."
- "Eavesdropping in As You Like It."
- "Protestant Typology and Rabbinical Typology."

Gene Frumkin

- Grant from UNM Research Allocations Committee, spring, 1981, for typing 500-page novel.

Barry Gaines

- Rev. of S. Schoenbaum, Shakespeare: Records and Images for Shaakespeare Studies, edition of A. Yorkshire Tragedy, reveals plays, University of Manchester Press (Johns Hopkins in U. S.).

Patrick J. Gallacher

- Attitudes towards Medicine in the Summoner's Tale."
- "Wisdom and Irony in the Merchant's Tale."
- "Shame and Recognition in Dante's Commedia."
- article or longer study applying Maurice Merleau-Ponty to Chaucer, an application of article accepted on Miller's Tale.

5. continued

Hamlin Hill

- Mark Twain's Collected Letters, 11, with Frederick Anderson, scheduled by the University of California Press for spring, 1982.

Michael J. Hogan

- Proposal for an anthology entitled, Words and the Writer, accepted by Scott Foresman and Company.

David M. Johnson

- Consultant: Documentary on Victor Romero, New Mexico Humanities Council.

David R. Jones

- Sexual Perversity in Chicago and The Beard, two plays directed at The New Place, University of Waikato, Hamilton, N.Z.; July-August, 1981, produced by University of Waikato Department of English.
- book-length study of David Mamet, young American playwright, in progress.
- "New Zealand Drama in the 70s," article in progress.

Antonio Marquez

- Work in progress:
 - "Images of the Mexican In Contemporary American Literature," to be presented at the UNM-UNAM inaugural symposium in Mexico City (January 14, 16, 1982).
- Contracted to write a critical study-bibliography of Rudolfo Anaya; to be published by Blackwell North America/UNM Press.

Thomas Mayer

- novel entitled Passing Losses almost completed.
- articles in progress for Aviation Consumer magazine:
 - "Why A-36 Bonanzas are suffering high rates of turbo failure."
 - "Mitsubishi MU-2--the scrouge of double engine failure."
 - "Another Mexico for pilots."
 - "Parts Catastrophe--the high cost of replacement parts; their unavailability, and the irresponsibility of manufacturers."
 - "Posa carburetors."
 - "Bud Robertson vs The City of Albuquerque."

Ivan Melada

- Invited to submit a proposal for a Twayne volume on Sheridan LeFanu.
- Articles circulating:
 - "All kings is mostly rapsallions': A Possible Source for the Comic Device of Garbled History in Huck Finn's Speech on Henry the Eighth."
 - "Willa Cather and John Ruskin on the Playing Fields: The Relation of War, Football, and Art."
 - "Last year's 12,000 word essay on Cooper and Cather divided into three shorter articles and circulating."

5. continued

Iyan Melada, continued

- Review of War in Melville's Imagination by Joyce Sparer Adler for Studies in the Novel.
- Commissioned by Dale Kramer, Chairman, Board of Editors, Journal of English and Germanic Philology, to review Burton Pike, The Image of the City in Modern Literature (Princeton University Press).

Peter C. Page

- Articles completed: (circulating)
 - "Satiric Implications in Poe's 'Tell-Tale Heart'."
 - "The Lessons of Aborted Fatherhood: Charles Brockden Brown's Edgar Huntly as Epistle."
 - "Hawthorne's 'Sights from a Steeple': From Classical Illusions to Voyeurism."
- working on a composition reader focussing on readings across the college curriculum.

Mary Power

- Book on Ulysses nearing completion.
- Essay on the treatment of Queen Maeve in the Irish Renaissance, circulating.
- Essay on Samuel Beckett's "Fingal" accepted by Journal of Modern Literature.

David Remley

- article accepted for appearance in a book entitled Women and Western Literature, Ed. Susan Rosowski and Helen Stauffer. To be published by Whitson, spring, 1982.
- three book reviews accepted by Annals of Iowa; Journal of the West (Kansas State University) and Arizona and the West (University of Arizona).
- "Afterword" for the UNM Press reprint of Forrester Blake's novel, Johnny Christmas to appear in 1982.

Harvena Richter

- poetry in the New Mexico Independent and woman's issue of New America (woman's issue), forthcoming.
- two sections of novel-revision-in-progress in South Dakota Review and New America (child's issue), forthcoming.

Patricia C. Smith

- Expanding first book of poems, Talking To The Land (Blue Moon, 1979), for proposed second edition.
- Novel in progress: Comeback.
- Member of applicants for NEH grant, headed by Vera Norwood of UNM, for a proposed volume on Southwestern Women Artists and Landscape; if funds are granted, to begin summer, 1983.
- Work in progress on long article on the poetry of Ray Young Bear.

Ronald T. Swigger

- In progress: revision of monograph on Queneau and Kierkegaard.
- In progress: two essays on Joyce and Queneau.

5. continued

James L. Thorson

- Completed responding to copy-editor's queries on Norton Critical Edition of The Expedition of Humphry Clinker.
- Continuing research into Tobias Smollett, particularly on essays on clothing in Humphry Clinker and the illustrations of Humphry Clinker.
- Review of Michael Hunter, Science and Society in Restoration England for Eighteenth-Century Studies, due in June.
- Continuing research on Stevenson.

Fred Warner

- In progress: a study of war correspondence and a study of literary taste among soldiers of the Great War.

Mary Martha (Marta) Weigle

- Review of "And Other Neighborly Names": Social Process and Cultural Image in Texas Folklore, ed. Richard Bauman and Roger D. Abrahams, for American Anthropologist.
- Review of Hispanic Legends from New Mexico: Narratives from the R. D. Jameson Collection, ed. Stanley L. Robe, for Journal of American Folklore (accepted).
- Review of The South Corner of Time: Hopi Navajo Papago Yaoui Tribal Literature, ed. Larry Evers with Anya Dozier, Danny Lopez, Felipe Molina, Ellavina Tsosie Perkins, Emory Sekaquaptewa, Ofelia Zepeda, for New America, vol. 4, no. 3, 1982.
- Review of Southwestern Indian Ritual Drama, ed. Charlotte J. Frisbie, for New America, vol. 4, no. 3, 1982.
- Spiders & Spinsters: Women and/in Mythology, a revision of the 1980 work now substantially completed and scheduled for publication by UNM Press in fall 1982.
- (with Kyle Fiore) Santa Fe and Taos: The Writer's Era, 1916-1941, Santa Fe: Ancient City Press, March 1982.
- (with Thomas R. Lyons) "Brothers and Neighbors: The Celebration of Community in Penitente Villages," for a book tentatively entitled Celebration: A World of Art and Ritual, edited by Victor Turner, Smithsonian Institution, spring 1982.
- (with Mary Powell) "From Alice Corbin's 'Lines Mumbled in Sleep' to 'Eufemia's Sopapillas': Women and the Federal Writers Project in New Mexico," for New America, vol. 4, no. 3, 1982.
- Los Hermanos Penitentes--Brothers of Our Father Jesus, for an anthology, The Folklore of American Ethnic Groups: Collections and Critiques, ed. Ronald J. Ambrosetti, Los Angeles: Alfred Publishing.
- The Penitentes, for Dictionary of Mexican American History, ed. Matt Meier and Feliciano Rivers, Westport, Connecticut: Greenwood Press.
- The Southwest: A Regional Case Study, for Handbook of American Folklore, ed. Richard M. Dorson. McGraw-Hill.
- In Progress:
Because the Magic Dreaming, a novel.
- (with William Wroth, Taylor Museum, Colorado Springs Fine Arts

5. continued

Mary Martha (Marta) Weigle, continued
Center) "Governmental Support of the Arts in New Mexico, 1933-1943,"
NEH Grant (2 books in progress; 3 more articles).

- (with Claudia Larcombe and Samuel H. Larcombe, Jr.), a volume on
Hispanic borderlands, a collection in honor of E. Boyd, to be
published jointly by UNM Press and the Spanish Colonial Arts
Society (I am primary editor and am writing 2 articles in
addition).

Mary Bess Whidden

- in progress: study of speaker and audience in sonnet sequences
of the sixteenth century.

Peter White

- Dictionary of Literary Biography, articles on Charles Chauncy
and Benjamin Tompson, due summer 1982.
- Editor, Puritan Poetry and Poetics: Essays on the Theory and
Practice of Poetry in Seventeenth-Century America. Edited and
submitted to Penn State Press.

Joseph B. Zavadil

- Current research project: study of the relationship between
rhetorical tone and narrative structure in such tales of Canterbury
as those told by the Friar and Summoner, the Clerk and Franklin,
and the Prioress and Nun's Priest.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

Rudolfo A. Anaya

- Invited participant on two panels, The American Writers Congress,
New York, 1981.
- Member: MLA, RMMLA, RGWA.
- Director, Creative Writing Program, UNM.

Lee A. Bartlett

- Listed in Poets & Writers.
- reviewer for ALS (sponsored by MLA).
- WAL (sponsored by WALA).
- Member, RGWA.
- Member, C. J. Jung Institute and Analytical Psychology Club of
Los Angeles.

LynnDianne Beene

- Attended New Mexico Council of Teachers of English Conference,
Albuquerque, New Mexico, 09/25/81.
- Member, National Council of Teachers of English.
- Member, American Dialect Society
- Associate member, Department of Linguistics, University of New
Mexico.

6. continued

James F. Barbour

-Member, MLA, RMMLA, Melville Society, and Hemingway Society.

Helen Damico

-Papers read at:

Societies for Scandinavian Studies (International Organization),
May, 1981: "Wealth and the Sigruns of the Helgi Lays."

-Medieval Institute (international organization), Kalamazoo,
Michigan, May 1981: "Wealth and the 'Gold-Adorned' Females
in Old Norse Heroic Poetry."

-Modern Language Association (international organization), New York,
N.Y., December, 1981: "Sprápattr and the Hama Episode in Beowulf."

William C. Dowling

-Attended annual meeting of the Modern Language Association in
New York, December 28-30, 1981.

David K. Dunaway

-Member: Oral History Association; American Folklore Society;
Author's Guild, Media Alliance, Rio Grande Writers Association.

-Attended annual proceedings of American Folklore Society and
Media Alliance.

-Participant, American Writers' Congress.

Morris Eaves

-MLA, New York, December, 1981: a paper on images of Blake produced
by contemporary critical theory, as part of a session on "Blake
and Criticism."

-May 1982: presenting a paper on "The Christian History of Engraving:
The Paradigm of Art History in Blake;" at a conference on "Blake and
Criticism," University of California, Santa Cruz.

Rick Anthony Eden

-Chair, Session F-14, "Paragraph Theory," Conference on College
Composition and Communication, March 18-20, 1982, San Francisco, CA.

Michael Fischer

-May 1982: presenting a paper on "Reconstructing Blake," at
Conference on Blake and Modern Criticism, University of California,
Santa Cruz, May, 1982.

Robert E. Fleming

-Associate Editor, Minority Voices, published at Penn. State Univ.

-Member of MLA, RMMLA, WLA, Hemingway Society, Society for Study of
Midwest Literature.

Cheryl H. Fresch

-Membership: Modern Language Association

. Milton Society of America

-"Milton and the Rabbits," ten-page paper to be read at NEMLA in
New York, April 5, 1982.

Gene Frumkin

- President, Rio Grande Writers Association, 1980-81.
- Attended annual Rio Grande Writers Association meeting, Las Cruces, NM, April, 1981.
- Member, Associated Writing Programs.

Barry Gaines

- Associate Editor, Shakespeare Studies, 13 (1981).
- Chairman, Renaissance section, South Atlantic Modern Language Association.
- Chairman of a section, Sewanee Mediaeval Colloquium, Sewanee, Tennessee.

Patrick J. Gallacher

- Member of editorial board, New Wycliff Society.

Hamlin Hill

- Advisory Screening Committee for Senior Fulbright Awards in American Literature, 1981-84.
- Editorial Board, American Literature, 1982-86.
- Regional Adviser, National Humanities Center.

David R. Jones

- lectures (public and classroom) at Victoria University, University of Otago, University of Canterbury--on American Drama--September-November, 1981.

Antonio Marquez

- Presented "Joycean Elements In Cabrera Infante's Tres Tristes Tigres" at the New Mexico James Joyce Symposium (UNM), June 11, 1981.
- Presented "Technology In The Contemporary American Novel" at Interface 81: Humanities and Technology Association Conference (Atlanta, Georgia), October 23, 1981.

Ivan Melada

- Member, MLA, RMLA, Friends of the Huntington Library.

Peter C. Page

- Attended the New Mexico Council of Teachers of English Conference, Albuquerque, September 25,26, 1981.

Roy Pickett

- Member, Modern Language Association and National Council of Teachers of English.

Mary Power

- Paper on Swift and Samuel Beckett, Samuel Beckett Symposium, University of Ohio, Columbus, Ohio, April, 1981.
- "Eveline, 'The Boarding House and the Music Hall,'" James Joyce Symposium, Albuquerque, NM.

David Remley

- "Problems of the Nineteenth Century Western Cowman," a paper read at Southwest Labor Studies Conference, UNM, spring, 1981.
- "The Cowboy Code in Western Literature," a paper read at Western History Association Conference, fall, 1981.

Ronald T. Swigger

- read paper, "Queneau and Joyce" at Joyce Symposium, UNM, June, 1981.
- member, American Association of Teachers of Technical Writing.

James L. Thorson

- Chaired session on Collective Bargaining in Higher Education and attended other sessions of Southwest Labor Studies Association, Albuquerque, May, 1981.
- Met as member of executive board and attended session of South Central Society for Eighteenth-Century Studies in Austin, Texas, March, 1981.
- Nominated for National Council of American Association of University Professors.

Mary Martha (Marta) Weigle

- Editor, Publications of the American Folklore Society, new series, (1 more volume published, 5 in press or final editing stages in last year).
- Member, Ad Hoc Publications Committee, American Folklore Society, October, 1981.
- "A Mythology of One's Own: Mundus vs. Mythos," paper delivered at the Annual Meeting of the American Folklore Society, San Antonio, Texas, 25 October 1981.
- Brief presentation to the Working "Tertulia" of scholars interested in northern New Mexican Hispano culture, Taos, NM, 25 July 1981.
- President and Editor, Ancient City Press, Inc., Santa Fe, NM, July 1981--.
- Consulting Editor, New America, special issue on women artists & writers of the Southwest.
- Consultant, "Film Documentation and Analysis of the Penitente Brotherhood," NEH grant, Thomas R. Lyons and Charla A. Kolander, UNM.
- Consultant, "Hispanic Storytellers of New Mexico" and "Portraits of Spanish Storytellers," Youth and Media Grants, NEH, for Judy L. Goldberg and Juan P. Lopez, Self Reliance Foundation, Las Trampas, New Mexico, 1981-82.
- Mss. reviewed for UNM Press, Smithsonian Institution, Journal of American Folklore; proposals reviewed for NEH.

Peter White

- Appointed to Modern Language Association Committee on Manuscript Holdings in American Literature. Served on panel in December MLA meeting in New York, December 1981.
- Member, MLA.

6. continued

Hugh Witemeyer

- Modern Language Association, attended annual meeting, December, 1981, read paper entitled "Moments in Museums: Ecphrasis in Hawthorne, James, and George Eliot."
- Attended James Joyce Symposium, Albuquerque, June 1981, introduced Hugh Kenner.
- Member, MLA.

Joseph B. Zavadił

- Member, MLA.

7. OTHER PROFESSIONAL ACTIVITIES

Rudolfo A. Anaya

- Lectures, readings, appearances:
 - Lecture, Harvena Richter's Creative Principles class. Reading, University of California, Irvine, CA.
 - Lecture, Pen Women's Club of Albuquerque.
 - Lecture, Alpha Omega Alpha, Albuquerque.
 - Interview on the Illustrated Daily, KUNM-TV.
 - Reading, Fort Collins, CO.
 - Panelist, Chicano Symposium, UNM.
 - Reading, University of Colorado, Boulder, CO.
 - Panelist on Chicano Literature Symposium, Colorado College, CO.
 - Reading, University of Albuquerque.
 - Consultant to movie on curanderismo, Denver, CO.
 - Book reviewer for Rio Grande Writers Newsletter.
 - Lecture, Antonio Marquez' Chicano Literature class.
 - Lecture, Upward Bound, UNM Summer Program.
 - Address, Santa Rosa High School 25th Reunion.
 - Judge for National Endowment for the Arts, Creative Writing Fellowships, Washington, D.C.
 - Exhibitor, Feria Artesana, Albuquerque.
 - Workshop on Writing, Resiembra Project, Espanola, NM.
 - Reading, First United Presbyterian Church, 100 Year Celebration, Albuquerque.
 - Address, state meeting of the New Mexico Council of Teachers of English, Albuquerque.
 - Reading, Santa Fe Book Fair.
 - Lecture, Speech Communications class, UNM.
 - Talk and reading to American Association of University Women, Albuquerque.
 - Panelist, RGWA panel on the American Writers Congress.
 - Lecture, New Mexico Bilingual Program, Taos, NM.
 - Interview, Albuquerque Monthly Magazine.

Sharon R. Barba

- Reading, April 1981, ASUNM-GSA.
- Reading of women poets, November 11, 1981, UNM Women's Center.

7. continued

Jamés F. Barbour

- Humanities Director and Consultant for Death of a Lightweight (54 minute film: docu-drama of Victor Romero) for the New Mexico Humanities Council.

David K. Dunaway

- Lectures at University of California-Santa Cruz, San Francisco City College, Harwood Foundation.
- radio and TV publicity appearances in Vancouver, San Francisco, Los Angeles, San Diego, New York, Boston, and Albuquerque.
- consultant on grants funded through N.M. Humanities Council and National Endowment for the Humanities, including UNM's Navajo-Hopi Land Project.

Morris Eaves

- January 1981: panel on "Visionary Literature," Conference on the Cultural Impact of Scientific Inquiry, Long Island University.
- Read a paper on "Classical Line and Romantic Identity" at Brown University and at Northwestern University, Feb.-Mar. 1981.
- reader/referee for:
Cornell University Press: 3 book manuscripts (Raine, Goslee, Lockridge).
University of Alabama Press: 1 book manuscript (Davis).
- consultant:

Journals: Studies in Romanticism
Eighteenth-Century Life
Liberal and Fine Arts Review
JEGP (Journal of English and Germanic Philology)
Modern Language Studies

Rick A. Eden

- Writing Consultant at the Rand Corporation in Santa Monica, CA., taught effective Writing Workshops and Advanced Writing Workshops Jan.-Feb. 1981.

Gene Frumkin

- Editorial consultant for the Rocky Mountain Review, 1981.
- Read my poems and conducted several workshops at Austin Peay State University., in Clarksville, Tenn., May, 1981.
- Read poetry at the University of Hawaii, 1981.
- Conducted a colloquium at the University of Hawaii, 1981.
- Read in San Luis Obispo, CA.

Barry Gaines

- Exchange lecture, Arizona State University
- Display of books in honor of Eugene Vinaver, Sewanee Mediaeval Colloquium.

Patrick J. Gallacher

- A talk to the Highland High School Literary Society, November, 1981.

7. continued

Hamlin Hill

- Lectures and papers: University of Wisconsin, 13 March; University of Wyoming, 16 June; John Steinbeck Museum, 3 October; University of Calgary and Alberta, 28-29 October; Modern Language Association of America, New York, 29 December.
- Consultancies: LSU Press, Media Division of National Endowment for the Humanities; Mississippi Quarterly.

Michael J. Hogan

- Chair of a session at Conference on Quality Education in New Mexico (Las Cruces, June).
- Member of UNM-APS English Task Force.

David M. Johnson

- Off-campus talk: "Mexico City," Senior Day Care, May 8, 1981.
- Reader: Educational Testing Service, Princeton, NJ, December 1981.

David R. Jones

- various interviews (press and radio) in New Zealand.

Antonio Marquez

- Referred "A Tale Well Wrought Is The Gossip O' The Gods: Storytelling In John Barth's The Sot-Weed Factor" for Rocky Mountain Review of Language and Literature.

David C. McPherson

- My play, O Rare Ben Jonson, was performed at the Vortex Theatre on three weekends in March 1981. I wrote parts of the script; the rest consists of passages from Jonson's own works, which I selected and edited. I also performed the role of ballad singer in this production.

Ivan Melada

- Refereed an essay on Tennyson's "Lady of Shalott" for the Rocky Mountain Review.

Peter C. Page

- Lecture at Cuba, H.S.: "The Importance of English for College" (April 7); participation in Senior Day Program (representing English Department) and Home Visit Program (university recruiting).

Mary Power

- Co-Chair, with Phillip Herring, James Joyce Symposium, June 11-16, UNM.
- Radio Interview KZIA with Connie Kranz, 6 June 1981.
- Associate Editor, Wisconsin Studies in Contemporary Literature.

David Remley

- Lecture on Western American Literature, Universitat Stuttgart, Stuttgart, West Germany, July, 1981.
- Paper on the history of the Alaska Highway, Northern Lights College, Fort St. John, B.C., Canada, June, 1982.

7. continued

David Remley, continued

- Lecture on the Alaska Highway at Northwest Wyoming Community College, Powell, Wyoming, April, 1982.

Patricia C. Smith

- Poetry workshop with 6th-7th graders, Wilson Middle School, Albuquerque, October 12, 1981.
- Creative Writing workshop, Rock Point Navajo School, Rock Point, AZ., February 11, 1982.
- reading at U.T.E.P., May 7, 1982.

Ronald T. Swigger

- Editorial consultant for Chemical Engineering projects, UNM's BER.
- panel grader, English 101 final exam, fall 81.

James L. Thorson

- Talk to Upward Bound students on science fiction, June 19.

Mary Martha (Marta) Weigle

- Talk on the Penitentes, Albuquerque Rotary Club, 26 February 1981.
- Talk on the Penitentes, New Mexico Genealogical Society, Albuquerque, 15 August 1981.
- "Women in Folklore/Mythology," talk to the Maxwell Museum Association, Albuquerque, 18 March, 1981.

Hugh Witemeyer

- Consultant to Canadian Federation of the Humanities, report on book manuscript.
- Consultant to University of Pittsburgh English Department, promotion review.
- UNM Speakers Bureau: spoke on "D. H. Lawrence in New Mexico" to Rio Rancho Rotarians Club (June 30, 1981) and to Rio Rancho Kiwanis Club (November 19, 1981).
- Introduced Keith Sager's lecture on D. H. Lawrence for Lectures Under the Stars series, June 22, 1981.
- lecture on "D.H. Lawrence in New Mexico" to an eleventh-grade English class at the Santa Fe Prep School, January 27, 1982.
- lecture on "D.H. Lawrence in New Mexico" to the Statesman's Club, May, 1982.

Joseph B. Zavadi

- Consultant for film project, "Death of a Lightweight," funded by the New Mexico Humanities Council (August-November
- spoke with Advanced Placement English Class at Highland High School, March, 1981.
- spoke with faculty at Los Alamos Branch College concerning Academic Freedom, March 1981.

8. NON-TEACHING UNIVERSITY SERVICE, ETC.

8. continued

Rudolfo Anaya

- Director, Creative Writing, Fall 1981.
- Director, Creative Writing Fellowship

James F. Barbour

- Graduate Director, English
- A & S Graduate Committee
- A & S Faculty Committee Sabbatical Review
- A & S Sub-committee on TA & GA salaries

Lee A. Bartlett

- Member of D. H. Lawrence Fellowship Committee
- Advisor to creative writing students
- organizing Spring reading series
- GSA Poetry Series Faculty Advisor

LynnDianne Beepe

- CST Director
- Co-author and PhD programs in English Language and Rhetoric for Department of English

Helen Damico

- Scholarships, Prizes, and Loan Committee, UNM.

Paul B. Davis

- APS/UNM, Language Arts/English Liaison Committee
- Personnel and Policy Committee, English Department
- Curriculum Committee, English Department
- Director of Undergraduate Studies

David K. Dunaway

- American Studies Committee
- Senior Day at UNM
- advisor and volunteer at KUNM

Morris Eaves

- Policy and Personnel Committee, English Department
- Editor, Blake/An Illustrated Quarterly
- Chairman, ad hoc committee to review the Chairman of the English Department, at mid-term.

Rick A. Eden

- Member, Freshman Composition Committee
- Member, Committee to design and implement new M.A. emphasis and Ph.D. major field in English Language and Rhetoric.

Michael Fischer

- Member, P & P Committee
- Faculty Advisor, English Graduate Student Association
- Participant, Provost's seminars on the humanities at UNM

8. continued

Robert E. Fleming
-Graduate Committee of English Department
-American Studies Committee

Cheryl H. Fresch
-Provost's Committee on the Humanities
-University Committee on Admissions and Registration
-Departmental Committee to Review the Chairman
-Member, Policy and Personnel Committee, English Department
-Phi Beta Kappa screening committee for the induction of new members.

Gene Frumkin
-Faculty advisor, ASUNM-GSA Series, 1980-81.

Barry Gaines
-Departmental graduate committee
-A & S tenure committee

Patrick J. Gallacher
-Member, Departmental Graduate Committee
-Member, Graduate Interdisciplinary Lecture Committee

Hamlin Hill
-Chairman, English Department
-Member, New Mexico Union Board

Michael J. Hogan
-Director of Freshman English
-Faculty Senate
-A & S representative for College of Education, curriculum committee
-Chair, Freshman English Committee

David M. Johnson
-Creative Writing Committee, English Department
-Faculty Senate Curricula Committee
-Director, Creative Writing, spring 1982.

David C. McPherson
-Faculty Senate Library Committee
-English Department Policy and Personnel Committee, spring semester, 1981.

Ivan Melada
-M.A. Advisor; 19th century M.A. examiner (Sem. I), proctor (Sem. II);
19th century Ph.D. minor field examiner. Drafted M.A. and Ph.D.
reading lists for Victorian poetry, prose, and fiction. On disser-
tation committee for L. McAuliffe.
-On dissertation committee for L. McAuliffe, Ed. Fnds
-Library liaison

8. continued

- Assistant Director of Freshman English
- Member, Freshman English Committee
- Skills Center Liaison to Freshman English
- Member, Policy and Personnel Committee
- Faculty Senate, Admissions & Registration Committee
- Falsification of Records Subcommittee
- Member School Relations Committee.

Roy Pickett

- Voting member of the Linguistics Department
- Linguistics Introductory Course Committee
- English Department Ph.D. Exam Committee

Mary Power

- Chair, D. H. Lawrence Fellowship Committee, spring, 1981.

David Remley

- Member, UNM Press Committee

Patricia C. Smith

- member, Department Graduate Committee
- Hiring Committee, Native America Studies program.

Ronald T. Swigger

- Member, Comparative Literature Committee

James L. Thorson

- Member, Faculty Senate and Campus Planning Committee
- Participant in Faculty Legislators' Day
- Colunteer caller to potential students in Outreach Program.
- Faculty Advisor to M.A. Candidates.

Mary Martha (Marta) Weigle

- UNM Press Committee, August, 1981.

Mary Bess Whidden

- A & S Committee on Curriculum and Policy
- English Department, Policy and Personnel Committee
- Honors Council
- Faculty Club Board

Peter L. White

- American Studies Faculty Committee

Hugh Witemeyer

- English Department, Policy and Personnel Committee
- Phi Beta Kappa Selection Committee
- A & S Promotion Advisory Committee
- Two Ph.D. dissertation committees (Weiss & Ferebee).

Joseph B. Zavadii

- Chair, Academic Freedom and Tenure Committee

8. continued

- Joseph B. Zavadil, continued
- Chair, Comparative Literature Program
 - Member, Community Education Committee
 - Member, Task Force for Revising
 - Policy Governing Branch Colleges

9. PUBLIC SERVICE

- James F. Barbour
- Trustee, Albuquerque Academy
 - Education Committee, Albuquerque Academy
 - Finance Committee, Albuquerque Academy
 - Member, Christ Lutheran Church

- Lee A Bartlett
- Member of Parents Association at Queen of Heaven Parish and School.

- Michael Fischer
- Board of Directors, The Albuquerque Family Calendar

- Robert E. Fleming
- Religious Education Committee, Aquinas Newman Center

- Thomas Mayer
- Chairman, Espanola airport commission
 - Local representative of Aerobatic Club of America
 - Procurement agent, Espanola airport
 - member, City Manager's commission on economic development
 - co-ordinator Mud Runnels for Lt. Governor, northern NM chapter
 - Advisor, CC Political consultants
 - member, Southeast Asia Commemorative society
 - Alumni Representative, Phillips Academy, Andover

- Ivan Melada
- Assisted with the ground breaking ceremonies for the Edmund G. Ross Elementary School.

- Peter C. Page
- President, Board of Directors of Artspace: Southwest Contemporary Arts Quarterly
 - Contributing Editor to Black and White Magazine (Albuquerque).

- Fred Warner
- member, advisory board NM textbook review committee

- Mary Martha (Marta) Weigle
- Director, Santa Fe Historical Society, until resignation, June 1981.
 - Director, Spanish Colonial Arts Society

- Joseph B. Zavadil
- Jury Duty, State District Court, during December, 1981.

THE REPORT OF THE DEPARTMENT OF GEOGRAPHY

July 1, 1981 - June 30, 1982

Rodman E. Snead, Chairman

I. General Departmental Information

The move of the Geography Department to other quarters occupied the major attention of the staff during this year. The move took place during the spring break, March 15th to 19th. Faculty and secretarial offices, map room, conference and seminar rooms, physical geography workroom, teaching assistant and graduate student offices were moved into the eastern two-thirds of Bandelier West, and temporary occupancy of space in the Anthropology building was set up for the main geography classroom, a physical geography laboratory classroom, a cartography classroom and laboratory, plus a camera room and a darkroom for processing photographs. The latter are temporary quarters, pending availability of Bandelier East for permanent utilization by Geography for classrooms and labs.

The past year was also a time of change in the department. Plans are underway to change the required undergraduate and graduate programs, with an increasing emphasis on applied geography. The role of geography in the Latin American program of the university was enhanced with the additions of Assistant Professor Stuart White and Adjunct Assistant

Professor Lynn Hirschkind.

A. Significant Achievements

The most significant event in the department this year was the move to Bandelier West and Anthropology. The major achievements have been the enhancement of our programs in applied geography and the geography of Latin America.

During the fall of 1981, Professor Elinore Barrett and I spent considerable time with the architectural consultants from Santa Fe and Mr. Van Dorn Hooker in the University Architect's Office, discussing the move. The comprehensive plans drawn up and presented in the 1980-81 Annual Report were carried out with only minor changes. But renovation of both Bandelier West and the Anthropology classroom involved many hours of meetings, visits to the buildings, and decisions on everything from the color of the walls, to the type of blinds to be installed, to the furniture to be used, and to the locks on the doors. The whole process was frustrating at times because of delays in ordering materials and the pressure of having to occupy the buildings during one week. As Acting Chairman of the department, I called upon the help of the faculty, staff and graduate students to assist in this move, and they came through nobly.

One faculty member must be especially commended for all the work put into planning, decision making, and carrying

out of this move. Professor Elinore Barrett went beyond the call of duty to see that every little detail was carried out smoothly. Without her help, the move could have been very disorganized and frustrating. Busy as she was with her own teaching and research, and with her new job as Associate Dean of Arts and Sciences, she spent an immense amount of time on the renovation of the new quarters, and to this day she is still involved with repairs, remodeling, furniture and many details of the renovation not yet completed.

Other faculty members must also be highly commended. Assistant Professor Dennis Fitzsimons did an excellent job of moving all the cartographic equipment to the new quarters in Anthropology. The secretaries, Rocio Brimhall and Christina Poor, worked hard and did an excellent job of moving the offices of the department with all the supplies and equipment to Bandelier West. Each faculty member, with the help of graduate students, packed up and moved his/her own office. The majority of the heavy furniture was moved by personnel of buildings and grounds, who must also be praised for their eagerness to help, the swiftness in moving us, and their care in making sure items were not lost or broken. In addition, our secretary, Rocio Brimhall, provided her truck; Professor Rodman Snead provided his van; and graduate students and faculty members willingly provided their vehicles for

the move; special thanks goes to retired Professor Robert Campbell who contributed greatly in helping to organize and oversee the moving operation. Considering that the move took place in the middle of the semester, when classes were being conducted, and the fact that the whole department gave up its spring break for the move, I must sincerely thank all who participated in the move.

Other significant events of this year included development of a closer relationship with the Remote Sensing Division of the Southwest Cultural Resources Center, also located in Bandelier West. Not only was Dr. Thomas R. Lyons made Adjunct Professor of Geography, but two of our graduate students, Devon Dederick and Galen Brown, worked in the Center and have made significant research contributions. We anticipate greater student use of the Center's sophisticated equipment.

Significant developments in the Geography of Latin America are the following. Visiting Assistant Professor Stuart White added new strength to the Latin American Studies Program. Dr. White and Dr. Barrett, whose research focuses on Latin America, provide courses in the geography of that region. The Latin American Studies Program asked that we increase these offerings by introducing a new course to be titled the Geography of Latin America. This summer, Dr.

Stuart White and Adjunct Assistant Professor Lynn Hirschkind, in conjunction with the Latin American Institute at the University of New Mexico, joined the U.S. Department of Education Group Projects abroad in Ecuador. Dr. White will be in Ecuador and Peru during the summer and fall of 1982, but will resume his teaching duties at UNM during the Spring Semester of 1983. Dr. White was active with the Latin American Institute at UNM during this year. He served on the Library Sub-committee and Publications Sub-committee of the Institute.

The fields of economic geography and computer science have been greatly strengthened by Assistant Professor Bradley T. Cullen. Enrollments in Basic Economic Geography have increased, a course in Transportation Geography is doing well, and Location Theory is now being offered on a regular basis. Also, the use of the computer has greatly increased under the direction of Dr. Cullen. Other members of the faculty are also entering into the field of computers with Professor Iven Bennett initiating a new computer program in Climatology, and Assistant Professors Dennis Fitzsimons and Stuart White also doing computer studies. When Assistant Professor Jerry Williams returns from his tour with the State Department, he will also be using the computer facilities.

With the addition of Visiting Assistant Professor Mohammad Aslam Khan to the department in the Spring of 1982,

as a replacement for Assistant Professor Jerry Williams, an international flavor was added. Dr. Khan brought in new ideas and inspired his students to different concepts of land use planning and population problems. His close association with the Albuquerque Office of Land Use Planning led to two students receiving work-study contracts for the summer. They will be studying land use changes in the Albuquerque urban area. Here is an excellent example of our changing emphasis into the field of applied geography. We hope in the future to make more connections with local, regional, and state agencies and private organizations.

The New Mexico Geographical Association, under the aegis of the graduate students in geography, and with the leadership of Mr. Kim L. Seidler, continued its sponsorship of speakers at afternoon teas. These provided lively discussions and were a means of increasing contact between faculty and students. There were presentations by both graduate students and staff. Of particular interest were lectures given by Professor Elinore Barrett and Robert Campbell on their safari to Africa during August 1981 and and Visiting Assistant Professor Khan's discussions of the Afghan refugee movements into Pakistan.

B. Significant Plans and Recommendations for the Near Future

Now that the department has moved, we are making

plans for the additional move into Bandelier East when the Registration Center moves to its new quarters in Mesa Vista Hall (within three years, we hope). In the remodeling of Bandelier East, we hope to be joined as one building with Bandelier West, and the department will thus have all its offices, classrooms, and labs in a single facility. (Attachment number one (1) shows the present Bandelier East and West, and the area in between where they will be joined.)

Our new quarters, which are partially completed, should help in expanding our role in "Applied Geography." In response to the job market and to student interests, and in the utilization of our new facilities plus our association with the Division of Remote Sensing and our close connection with the Technology Application Center, we plan to develop further our programs in Applied Geography. This is reflected in the new University Bulletin, which indicates several tracks under the headings of Cartography, Remote Sensing, and Urban and Regional Land-Use Planning.

In Cartography, we are moving ahead rapidly. Under the direction of Assistant Professor Dennis E. Fitzsimons from the University of Kansas, we are expanding the cartographic program. Already enrollments have risen rapidly, and we are at the present offering advanced courses on a regular basis; we can see the possibility of adding an additional course in

cartography, dealing with production techniques. Our new facilities have a built-in camera and processing equipment, which offer great possibilities for expansion in photographic reproduction. We have also added a new 200 level course in Map Reading, formerly only a part of the course in Map Reading and Air Photo Interpretation.

The last item to mention under this section is the expansion of the department into the fields of land-use planning and urban development. The connections that Visiting Assistant Professor Mohammad Aslam Khan made with the Redevelopment Planning Office of the City Council of Albuquerque have been most valuable in setting up two summer internships for our undergraduate and graduate students. We hope that when Assistant Professor Jerry Williams returns to Albuquerque these contacts can be continued with the City Government Planning Office.

C. Appointments to Staff

Since Professor Elinore Barrett of this department continued her appointment as Associate Dean in the College of Arts and Sciences, she will continue to teach one course one semester and two the other semester, plus one course in the summer session, in lieu of her usual nine hour teaching load. Since the department was in danger of losing its offerings in the geography of Latin America, and nearly all of Professor

Barrett's contributions to the undergraduate geography minor above the freshman level, the department was permitted to continue to engage a visiting assistant professor to take her place.

The person hired to replace Professor Barrett was Stuart A. White. He received his Ph.D. degree from the University of Wisconsin in August 1981. In the Spring of 1982 he taught three courses in our department: Food Production Systems, World Regional Geography and a Seminar in Regional Geography. During the spring Dr. White did research on Methods for Achieving Independence of Fossil Fuel Fertilizers in Third World Rural Development. Stuart White was also on the Library Subcommittee and Publications Subcommittee of the Latin American Institute, and during Senior Day he was our Geography Department representative.

During Dr. William's absence, Visiting Professor Morris L. Uebelacker took his place during the spring and fall terms of 1981. He was recruited from the University of Oregon, where he is completing his doctoral work. We were very pleased with Morris Uebelacker and sad to see him leave at the end of the fall term of 1981 to resume his research in the Pacific Northwest. He was a popular yet demanding teacher, and his interests in planning and urban geography stirred the students to write excellent research papers.

Assistant Professor Uebelacker taught three courses in the fall of 1981: Urban Geography and two sections of Human Geography.

Dr. Mohammad Aslam Khan was recruited to replace Morris Uebelacker during Dr. Williams' absence in the spring of 1982. Dr. Khan had two degrees from the University of Peshawar, a B.Sc and an M.Sc., and his Ph.D. degree was from the University of Birmingham in the United Kingdom. The title of his doctoral dissertation was "Growth and Morphology of Central Area of Coventry." He received the degree from Birmingham in 1972. Dr. Khan's major geographical interests were in the fields of settlement geography, population geography, environmental problems, regional planning and urban planning, especially in underdeveloped countries of Africa and Asia, particularly his home country of Pakistan. Dr. Khan offered three courses in our department during the Spring of 1982: Introduction to Human Geography, Population Geography, and Land Use Practice and Planning.

Two research scholars were given adjunct appointments during the 1981/82 academic year. Dr. Thomas R. Lyons was added as Adjunct Professor of Geography in July, 1981. Dr. Lyons is former Chief of the Division of Remote Sensing of the Southwest Cultural Resources Center of the National Park Service. He is well known for his research in remote sensing

and especially for his research on Chaco Canyon. Dr. Lyons has published extensively in the realm of remote sensing. Increasingly his work and interests have moved from an archaeological focus to a broader geographical base. We have had discussions of our mutual interests and the expected joint use of facilities with the Southwest Cultural Resources Center. We feel that an association with this center will strengthen further the work at the University of New Mexico in remote sensing. The appointment of Dr. Lyons as an Adjunct Professor is a logical step in this direction.

The second Adjunct Assistant Professor was Lynn Hirschkind. Dr. Hirschkind did her dissertation research in Ecuador and received her Ph.D. from the University of Wisconsin in Madison in December, 1980. Since that time she has been engaged in a variety of research topics, including a socio-economic history of Azuay Province, Ecuador; an examination of noble savage imagery among contemporary Americans and American Indians; and a study of political influences on the treatment of the 1980 Cuban refugees, for a paper to be presented at the annual meeting of the American Anthropological Society in December, 1982. Dr. Hirschkind worked as an interpreter and coordinator at a Cuban refugee camp in Wisconsin; she has recently finished translating a book on weaving and dyeing, commissioned by the Organization

of American States.

D. Separation from Staff

None

II. Composite of Information Requested on Individual Biographical Supplements.

Following are indicated the achievements, productivity, and the activities of the staff of the Geography Department for the calendar year 1981.

Advanced Study

Assistant Professor Dennis E. Fitzsimons, who joined the staff in the fall of 1981, completed his Ph.D. at the University of Kansas in Lawrence in October, 1981. The title of his dissertation was The Role of Base Data in Map Communication.

Assistant Professor Stuart White, who joined the staff in the spring of 1982, completed his Ph.D. at the University of Wisconsin in Madison in August, 1981. The title of his dissertation was Moments in the Narrative Landscape of Highland Peru.

Dr. Hirschkind, with a Latin American specialization, has been collaborating with Visiting Assistant Professor Stuart White. Their topic is rural development in Ecuador.

Dr. Hirschkind is considering the social impact of land reform in two provinces of southern Ecuador, while Dr. White examines the impact of that same land reform on traditional agricultural practices. Field research on this topic is being conducted between June and August. Their work is being financed by the U.S. Department of Education, through our UNM Latin American Institute. Data analysis will be carried out during the fall of 1982 and spring of 1983. Dr. White reports, and the department concurs, that the social parameters of changing agricultural practices are of vital importance, and that the proposed collaboration between Dr. White and Dr. Hirschkind will be a fruitful one. At the same time, by inviting Dr. Hirschkind to join us as an Adjunct Assistant Professor, we will be extending our expertise in the Latin American area. For these reasons we were eager to add Dr. Lynn Hirschkind as an Adjunct Assistant Professor.

Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

Professor Richard E. Murphy took sabbatical leave, during the 1981-82 academic year to carry out research at Oxford University in England. Dr. Murphy was named an Honorary Supernumerary Fellow, at Jesus College at Oxford, England. He reports that considerable progress has been

made on a monograph titled The Political Map of the World: A Geographical Interpretation of its Rationale.

Professor Rodman E. Snead in May, 1981, joined a three-week expedition to the Amazon Basin of Peru. From Iquitos he took several small boats, including dug-out canoes, back into the tropical jungles. The biology group Professor Snead joined collected a number of unusual plant species and visited three primitive Indian tribes. The excursion continued to Lima, where several trips were made along the Peru coast, studying particular landforms. The final excursion was to Cuzco and the narrow-gauge train to Machu-Picchu.

Associate Professor Jerry Williams continued his leave of absence during the 1981/82 academic year in Washington, D.C. where he had been invited by the Agency for International Development of the State Department to serve as a Visiting Faculty Member in Developmental Studies for a year and a half. Dr. Williams conducted a field survey in Ghana dealing with rural small-scale enterprises and made a second trip to Africa in June 1982. He will be returning to UNM in July, 1982. Visiting Assistant Professor Morris L. Uebelacker was recruited to replace Dr. Williams during his absence during the fall of 1981 and Professor Mohammad Aslam Khan, from Peshawar University, Pakistan, was

recruited to replace him in the spring of 1982.

Professor Iven Bennett made a trip during the summer of 1981 through Appalachia, New England, and the Upper Great Lakes and Northern Great Plains. Trips such as these provide information useful in the teaching of Geography of North America.

Associate Professor Stanley A. Morain spent one week each in the countries of Ecuador, Sierra Leone, Philippines and Morocco. These trips were sponsored by US/AID for the purpose of project evaluations.

Assistant Professor Bradley T. Cullen during spring break of 1982 made a trip to Chihuahua, Mexico by car and from there by train to Los Moches in order to gather additional information for World Regional Geography.

Visiting Assistant Professor Stuart White, along with Adjunct Assistant Professor in Geography, Lynn Hirschkind, in conjunction with the Latin American Institute at the University of New Mexico, have joined the U.S. Department of Education Group Projects abroad in Ecuador during the summer and fall of 1982. The topic of their study is Rural Development in Ecuador. Dr. White will resume teaching at UNM during the spring semester of 1983.

New Scholastic honors, fellowships, etc.

Associate Professor Stanley A. Morain was recipient

of the 1981 Ford Bartlett award presented by the American Society of Photogrammetry in Denver, March 17, 1982.

Professor Richard E. Murphy was recipient of an Honorary Supernumerary Fellowship from Jesus College, Oxford, England for 1981-82.

Publications

Professor Elinore M. Barrett:

"The King's Copper Mine, Inguaran in New Spain," The Americas, v. XXXVIII, n. 1 (July, 1981): I-29.

Reviews of:

J.B. Warren, La Conquista de Michoacan, 1521-1530 (Morelia, Michoacan, Mexico: Fimax Publicistas, 1977), in The Journal of Historical Geography, v. 2, n. 2, (April, 1981): 219-220.

Fray Jeronimo, de Alcala, La Relacion de Michoacan (Morelia, Michoacan, Mexico: Fimax Publicistas, 1980), in The Americas, v. XXXVIII, n. 1 (July 1981): 133-135.

Assistant Professor Bradley T. Cullen:

"Offshore Living Accomodations for North Sea Oil Exploitation," The Geographical Review, Jan. (1981), pp. 91-97.

"Wood Products Producers in California's North Coast: Variables Influencing Spatial and Structural Decisions," Proceedings of Applied Geography Conference, Sept. (1981), pp. 379-394.

With Lawrence M. Sommers: "River-water Pollution in Norway: Some Regional Environmental Policy Implications," Professional Geographer, Vol. 34, No. 2, May 1982, pp. 208-219.

Visiting Assistant Professor Mohammad Aslam Khan:

"Spatial Analysis of Demographic Patterns and Trends in North West Frontier Province," Institute of Economic Studies, North West Frontier Province, Peshawar, 234 pages.

Associate Professor Stanley A. Morain:

"Survey of Instructional Material for Remote Sensing," NASA Conference Publication, 2197 Conference on Remote Sensing Education (CORSE - 81) Purdue University, May 18-22, 1981, pp. 45-49.

"Remote Sensing - Multispectral Analyses of Cultural Resources: Chaco Canyon and Bandelier National Monument," Supplement No. 5 to Remote Sensing: A Handbook for Archaeologists and Cultural Resource Managers, Ed. by T.R. Lyons, US/National Park Service - U.S. Government Printing Office, 64 pages.

Reviewed an article submitted to the Journal of Arid Environments titled "Impacts of Evaporative Cooling Towers in Arid Environments."

Professor Rodman E. Snead:

After nearly ten years of preparation, the volume Coastal Landforms and Surface Features: A Photographic Atlas and Glossary was published by Hutchinson Ross Publishing Company, Stroudsburg, Pennsylvania in March, 1982, 247 pages.

"Origin of Arcuate Bays on the West Coast of Jamaica," published in the Proceedings on Marine Geography, Association of American Geographers (1978 Meetings - published in 1981), pp. 25-34.

"Destruction and Loss of Archaeological Sites Along the Makran Coast of Pakistan from Recent Tectonic Movements and Severe Storms," Proceedings of the CCE Field Symposium, Coastal Archaeology Session, Shimoda, Japan, August,

1980 - International Geographical Union
Commission on the Coastal Environment.
Edited by M.L. Schwartz, Western Washington
University, published in 1981.

- Two slide sets on the Middle East were published by (NCGE/GPN) The National Council for Geographic Education for the Great Plains National Instructional Television Library, Lincoln, Nebraska.

Middle East I - 60 color 35 mm slides on the history, landscapes, industries and cultures of the Middle East, from Egypt (around the Arabian Peninsula) to Lebanon and Israel.
30 page text. Fall, 1981.

Middle East II - 40 color 35 mm slides, "A look at, and information on ancient and modern cultures and activities in probably the world's most politically volatile region." Covers the countries of Iran, Iraq, Turkey, and Afghanistan, Fall, 1981.

- Four slide sets were prepared and published by Parkway Meida, Inc. 44 Parkway West, Mt. Vernon, New York.

Arabian Peninsula: Economic Growth and Change
(20 slides, 8 pages of notes).

Arabian Peninsula: Land and Life (20 slides,
8 pages of notes).

New Zealand - 30 slides - 12 pages of notes, and
Mexico - 50 slides - 30 pages of notes (Spring,
1982).

- For JLM Visuals in Grafton, Wisconsin, Professor Snead prepared slide sets on the following topics:

Slide Set No. 1385 - Sand Dunes - 20 slides
Slide Set No. 1481 - Karst Topography II - 20
slides

And 8 sets on The Physiography of North America
Slide Set No. 1830 - "N.E. United States and Canada
Slide Set No. 1832 - Southeast United States

Slide Set No. 1834 - Central United States and
Canada
Slide Set No. 1836 - The Rocky Mountain Region
Slide Set No. 1838 - The Colorado Plateau
Slide Set No. 1840 - Columbia Plateau
Slide Set No. 1842 - Pacific Region
Slide Set No. 1844 - Alaska and Hawaii

Assistant Professor Jerry Lee Williams:

"Impact of Rural Small-Scale Programs in Ghana,"
published by the Agency for International Develop-
ment (Spring, 1982).

Other research projects or creative work in progress

Professor Iven Bennett:

Completed (with the exception of missing data which is yet to be obtained), hand tabulations of frequency distributions of daily maximum and minimum temperatures for the Bell Ranch (period-of-record is 1904 to 1981). Transferred the 1892-1981 New Mexico State maximum and minimum daily temperature frequency distributions from a monthly to seasonal format. This was a long, tedious job that had to be done by hand. These data are now in a form suitable for key-punching into a file in the university computer and this work will begin in January when the personal computer terminal he purchased is delivered. Three trips were made to New Mexico State University to copy data not published and to acquire information about the historical and present-day nature of the site on which the weather station is located. Since the data are to be examined primarily for the purpose of detecting evidence of climatic change, knowledge of site conditions is all-important.

Assistant Professor Bradley T. Cullen:

"Impact of Electricity Utility Rate Reform in Oakland and Livingston Counties, Michigan,"
Journal of Environmental Systems (co-authored).
In press.

"Implications of Electric Utility Rate Reform Legislation for Low-Income Households," The Social Science Journal (co-authored). In press.

"Vanpool Programs: Their Evolution and Potential Improvement through the Application of a Location-Allocation Model."

"Regionalization As a Step Towards the Development of a National Energy Policy."

Assistant Professor Dennis E. Fitzsimons:

"Cartographic Convention and Base Data," to be submitted for publication during June, 1982.

Visiting Assistant Professor Mohammad Aslam Khan:

"Population Mobility in North West Frontier Province," in eds. A.L. Kosinski, and K.M. Eladhi Population Redistribution in South Asia, Edmonton. In press.

Associate Professor Stanley A. Morain:

Reviewed an article submitted to the Journal of Arid Environments titled: "Impacts of Evaporative Cooling Towers in Arid Environments."

Dr. Morain obtained for Technology Application Center a \$25,000.00 grant from the United States Geological Survey for Curriculum Development for Remote Sensing Applications in Cultural Resources.

Professor Richard E. Murphy:

Considerable progress was made in England on a monograph titled: The Political Map of the World: A Geographical Interpretation of its Rationale.

Professor Rodman E. Snead:

- For JLM Visuals in Grafton, Wisconsin preparing slide sets on the following topics:

20 slide set on Coastal Engineering
 20 slide set on Coastal Landforms
 8 slide sets on World Regional Climates
 (20 slides to a set)

- For Parkway Media, Inc. 44 Parkway West,
 Mt. Vernon, New York. The following slide
 sets are being prepared:

40 slides on the country of India.

- Reviewing and providing illustrations for
 an introductory Physical Geography textbook
 being authored by a British named W. Bradshaw,
 to be published by Butterworth and Company
 in Oxford, England.
- In consultation with several publishers on
 the preparation and publishing of a college
 geography textbook on the Middle East.

Visiting Assistant Professor Stuart White:

Stuart was working on a paper titled: "Methods
 for Achieving Independence of Fossil Fuel
 Fertilizers in Third World Rural Development"
 before he left for Ecuador in May, 1982.

Assistant Professor Jerry Lee Williams:

Completed first set of transcriptions of
 interviews with pioneer homesteaders for
 research on land division in eastern New
 Mexico. This research was supported by
 a grant from the Arts and Sciences Research
 Allocation Committee.

Collected data on hazardous waste dumping
 in Bumpus Cave, Tennessee.

Conducted a field survey in Ghana on rural
 small-scale enterprise, funded by State
 Department-AID (July-Sept., 1981).

Activities in learned and professional societies

Five geography department faculty members were

participants in the recent annual meeting of the Association of American Geographers held in San Antonio, Texas. Professor Elinore Barrett chaired a session on "Agricultural Landforms and Water," and was also a member of the program committee. Professor Rodman E. Snead was a member of a panel on "Opportunities and Problems of Field Research in Asia." Those who presented papers were Assistant Professors Bradley T. Cullen, Dennis E. Fitzsimons, and Stuart A. White. Bradley Cullen presented a paper that was co-authored with James H. Johnson, Jr. titled: "Regionalization as a Step Towards the Development of a National Energy Policy." Dennis Fitzsimons presented a paper titled: "Cartographic Convention and Base Data" plus he also chaired a session on "Cartography: Computer Data Bases." The title of Stuart White's paper was "The Cultural Origin of Central Andean and Puna Vegetation."

Professor Elinore M. Barrett attended the national program committee meeting of the Association of American Geographers, in Austin, Texas, held in October, 1981. Associate Professor Stanley A. Morain continued his active role in the American Society of Photogrammetry by attending the annual convention in February. Dr. Morain was also Chairman of the Education Committee and a correspondent to Commission VI of the International Society of Photogrammetry, and he was on the Steering Committee for PECORS VII Symposium

on Geographic Information Systems.

Papers were presented at other professional meetings by two members of the department. Assistant Professor Bradley T. Cullen read a paper titled "Wood Products Producers in California's North Coast: Variables Influencing Spatial and Structural Decisions," presented at the Fourth Annual Applied Geography Conference held at Tempe, Arizona, October, 1981; and "Combinational Programming Solution to a Park and Ride Transit Problem," at the Annual Meeting of the Southwestern Economics Association in Dallas, Texas, in February, 1982.

Associate Professor Stanley A. Morain was appointed Co-Chairman of the Education Committee of the joint American Congress of Surveying and Mapping (ACSM) and American Society of Photogrammetry (ASP). Dr. Morain also reviewed an NSF proposal submitted to the Geography Branch of the National Science Foundation.

Professor Rodman E. Snead presented a paper titled "Destruction and Loss of Archaeological Sites along the Makrān Coast of Pakistan from Recent Tectonic Movements and Erosion Due to Severe Storms" at the Tenth Annual Conference on South Asia held at the University of Wisconsin in Madison in November, 1981.

Assistant Professor Jerry Williams presented two papers at International Development Seminars in Washington,

D.C.. One paper was titled "Land Use Evaluation as a Baseline Analysis for Development Planning in the Third World," presented to a seminar on environmental issues, Agency for International Development, and the other paper was titled "Basin Planning and Water Management as an Instrument for Regional Development Planning," at a seminar in the Development Studies Program of the Agency of International Development, Washington, D.C.

Other professional activities

Associate Professor Stanley A. Morain has been a consultant to US/AID and USDA on Area Frame Sampling in Agricultural Development. He has also been serving as an expert witness to Lewis, Wilson, Lewis and Jones, Attorneys at Law.

Assistant Professor Dennis E. Fitzsimons has been doing consulting for Bonneville Associates in Salt Lake City, Utah. He has been concerned with projects for the American Petroleum Institute and the Western Regional Council.

Professor Rodman E. Snead has been in discussion with Antony Orme at the University of California, Los Angeles, on being coordinator of the physical geography section of the Atlas of Border Lands, a joint project between the United States and Mexico.

Non-Teaching University Service

Professor Elinore M. Barrett became Associate Dean of the College of Arts and Sciences on 1 July 1981.

Professor Iven Bennett served on the Arts and Sciences Tenure Committee and chaired the Arts and Sciences Social Science Promotion Committee.

Assistant Professor Bradley T. Cullen served on the Arts and Sciences Graduate Affairs Committee, the Arts and Sciences Computer Use Committee, and the European Studies Committee, replacing Professor Murphy for the 1981-82 calendar year.

Associate Professor Stanley A. Morain continued as Director of Technology Application Center.

Professor Rodman E. Snead served as Acting Chairman of the Geography Department while Professor Richard E. Murphy was on sabbatical in Europe.

Assistant Professor Stuart White served as a member of the Latin American Institute, was on the Library Subcommittee and the Publications Subcommittee and ably represented the department on Senior Day.

Public Service

Assistant Professor Jerry L. Williams continued to serve with the State Department in Washington, D.C. Dr.

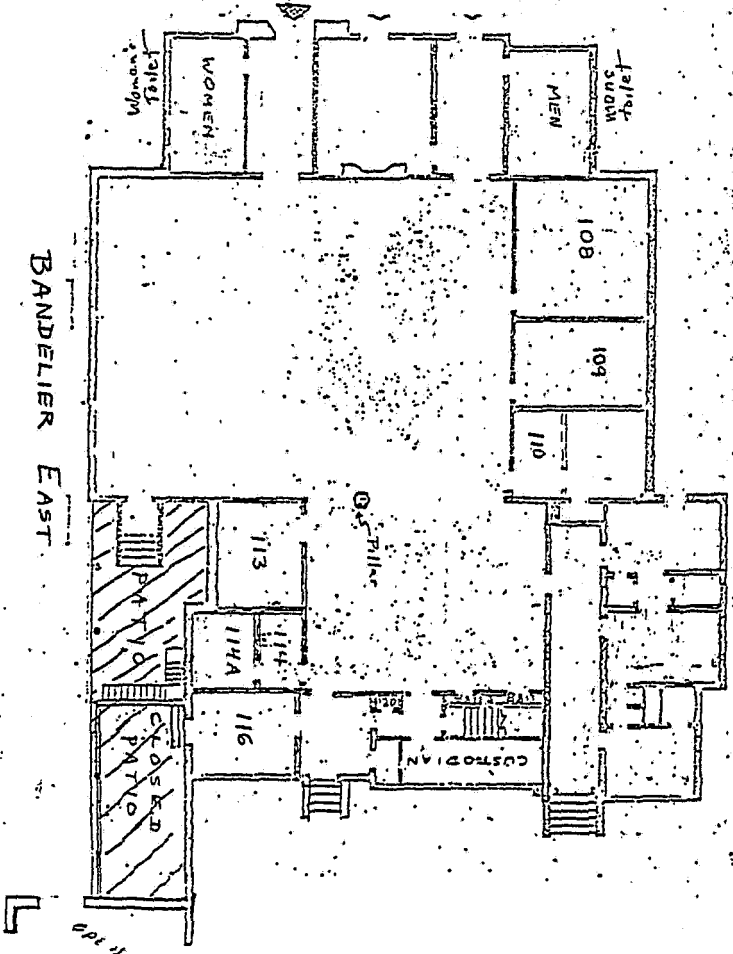
Williams has been with the Agency for International Development of the State Department serving for eighteen months as a Visiting Faculty Member in Developmental Studies. He plans to return to New Mexico in early July, 1982.

Associate Professor Stanley A. Morain was a contributor to the "Showcase for Technology" presented by Senator Harrison Schmidt. This was part of the Space Sciences Committee contribution.

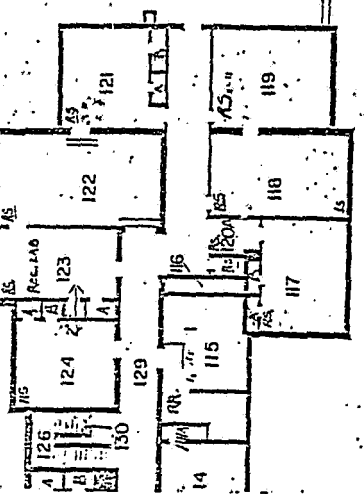
Professor Rodman E. Snead has given several slide presentations to different organizations. A slide presentation on Pakistan and the Amazon Expedition was given to the Asbury Church Senior Citizens Day Care Center and the Amazon Expedition trip was also given to the North Valley Optimist Club and the Woman's University Faculty Club.

ATTACHMENT NUMBER (1)

BANDELIER EAST



BANDELIER WEST



Department of Geology
University of New Mexico
July 1, 1981 - June 30, 1982
Part I. Departmental Activities

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The Report of the Department of Geology
July 1, 1981 - June 30, 1982

Rodney C. Ewing, Chairman (1981)
Wolfgang E. Elston, Acting Chairman (1982)
Barry S. Kues, Assistant Chairman

SIGNIFICANT ACHIEVEMENTS

Summary

The Geology Department continued its progress during 1981-82. Here are some highlights:

1. Two new Assistant Professors, Kenneth D. Mahrer (geophysics) and Leslie D. McFadden (geomorphology and soil science) joined the Department. Dr. Wells was promoted to Associate Professor and granted tenure. We accepted with regret the resignation of Professor Raymond V. Ingersoll (sedimentology). The Department Chairman, Professor Rodney C. Ewing, was granted sabbatical leave for the calender year 1982. Professor Wolfgang E. Elston was appointed Acting Chairman in Professor Ewing's absence.
2. Research activities continued at a high level. Faculty members served as editors, officers, committee members, symposium convenors, session chairman, etc., of national and international organizations. The international reputation of the Department continued to grow, as shown by contacts with foreign scientists. Members of the faculty were involved in University affairs through service on a variety of committees, including the President's Committee on Excellence.

Professors Brookins and Yapp were elected to the UNM Faculty Senate.

3. Student enrollments were essentially unchanged on both the undergraduate and graduate levels. Degrees awarded were 11 B.S. and 10 M.S. All graduate students who received their degrees in 1982-83 found employment, as did many undergraduates. The GRE scores of graduating seniors continued to be well above national and UNM norms. Graduate students won several national awards. Special efforts are continuing to attract students from minority backgrounds.
4. Applications for admission to the graduate program rose to 278, of whom 100 were admitted and 11 were offered financial aid. It is anticipated that about 25 new graduate students will actually attend in 1982-83. Those admitted averaged GRE scores in the upper third of graduating seniors nationally; those offered financial aid were in about the 85th percentile.
5. The Department office went through a major reorganization with the appointment of an Administrative Assistant, Ms. Marguerite Swanson, changes in personnel, and installation of up-to-date word processing equipment.
6. A new undergraduate curriculum, adopted in 1981-82, completed its first year without incident. Ph.D and M.S. requirements were revised. The Department continued plans to expand its teaching program into new fields, including Quaternary Studies, Geochemical

Engineering, and Materials Science. Research activities have expanded into new fields. For example, the Department has become a recognized center for studies in geologic and solid-state aspects of the management of radioactive waste products.

- 7. Phase I of the renovation of Northrop Hall was completed; Phase II is under way. A new state-of-the-art electron microprobe is on order and will be installed in renovated basement quarters in the Fall of 1982. The present electron microprobe and some of the other facilities of the Institute of Meteoritics will also be moved from the third floor to the basement. The analytical geochemistry laboratory was moved from the ground floor of Northrop Hall to spacious and renovated quarters on the second floor. An X-ray fluorescence unit was delivered and installed in the new quarters. The stable light-isotope laboratory became operational.
- 8. The Caswell Silver Foundation completed its first full year of activities in support of the Department. Professor Donald F. Bloss was in residence as first Caswell Silver Distinguished Professor; Professor William T. Holser will succeed him in 1982-83.
- 9. Energy Exploration Education, Inc. continued to augment the funds available in support of petroleum geology in the Department. Professor Sherman A. Wengerd returned to UNM for the Spring semester as Distinguished Professor of Petroleum Geology.

10. The Department was the recipient of numerous gifts, partly through the Alumni Fellowship Fund, partly through other sources.
11. By a special Act of Congress, UNM received the patent to the Harding mine near Dixon, N.M., donated by Dr. Arthur Montgomery. The Geology Department administers the mine as an outdoor museum and research site.
12. The Department hosted a large number of distinguished visitors. Its colloquium series sponsored 48 talks in 1982-82.
13. The Department participated in numerous public service activities, including displays at the State Fair and the Showcase for Technology, tours of laboratories and museums for Legislator's Day; the Department also participated in Parents Day and UNM High School Seniors Day. The Geology and Meteorite Museums continued to receive thousands of visitors, especially school children and tourists. Special tours were arranged for Pueblo Indian students and teachers.

FACULTY AND STAFF OF THE DEPARTMENT OF GEOLOGY

FULL PROFESSORS:

Roger Y. Anderson, Ph.D., Stanford University, 1960.

Douglas G. Brookins, Ph.D., Massachusetts Institute of
Technology, 1963.

Wolfgang E. Elston, Acting Chairman, Ph.D., Columbia
University, 1953.

Klaus Keil, Director, Institute of Meteoritics, Ph.D., Mainz
University, 1961.

Lee A. Woodward, Ph.D., University of Washington, 1962.

ASSOCIATE PROFESSORS:

Jonathan F. Callender, Ph.D., Harvard University, 1974.

Rodney C. Ewing, Chairman, Ph.D., Stanford University,
1974.

Raymond V. Ingersoll, Ph.D., Stanford University, 1976.

Albert M. Kudo, Ph.D., University of California-San Diego,
1967.

Barry S. Kues, Ph.D., Assistant Chairman, Indiana
University, 1974.

Stephen G. Wells, Ph.D., University of Cincinnati, 1976.

ASSISTANT PROFESSORS:

Jeffrey A. Grambling, Ph.D., Princeton University, 1979.

Stephen P. Huestis, Ph.D., University of California-San
Diego, 1976.

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Kenneth D. Mahrer, Ph.D., Stanford, 1979.
Leslie D. McFadden, Ph.D., University of Arizona, 1982.
Crayton J. Yapp, Ph.D., California Institute of Technology,
1980.

VISITING DISTINGUISHED PROFESSORS

F. Donald Bloss, Caswell Silver Distinguished Professor of
Geology, Ph.D. University of Chicago, 1950.
Sherman A. Wengerd, Visiting Professor of Petroleum
Geology, Ph.D., Harvard University, 1947.

EMERITUS PROFESSORS:

J. Paul Fitzsimmons, Ph.D. University of Washington, 1949.
Vincent C. Kelley, Ph.D. California Institute of Technology,
1937.
Stuart A. Northrop, Ph.D. Yale University, 1929.
Sherman A. Wengerd, Ph.D. Harvard University, 1947.

ADJUNCT FACULTY:

Edward C. Beaumont, M.S. University of New Mexico, 1948.
Frank C. Gorham, B.S., University of Missouri, 1943.
Rodney C. Holcombe, Ph.D., Stanford University, 1973.
William C. Luth, Ph.D., Pennsylvania State University, 1963.
John W. Shoemaker, M.S., University of New Mexico, 1965.
Lawrence W. Teufel, Ph.D., Texas A & M, 1979.

RESEARCH ASSOCIATES:

Richard F. Haaker, Research Associate, M.S., Texas A & M.

John Husler, Senior Staff Chemist, M.S., University of New
Mexico.

Michael Pedley, Chemist, Ph.D. University of Keele
(U.K.) 1978.

Edward R.D. Scott, Research Scientist, Institute of
Meteoritics; Ph.D., University of Cambridge (U.K.).

G. Jeffrey Taylor, Senior Research Associate, Institute of
Meteoritics, Ph.D., Rice University, 1970.

STAFF:

Marian E. Buck, Staff Secretary

George Carnako, Department Preparator

George Conrad, Microprobe Specialist

Earl George, Electronics Technician

Gerald G. Gomez, Thin Section Preparator

Veronica Grady, Staff Secretary

Cornelia N. Hackney, Bookkeeper

Elaine Newman, Department Secretary

Judy Salas, Drafting Technician

Marguerite G. Swanson, Administrative Assistant

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FACULTY CHANGES

Two new Assistant Professors joined the Department of Geology during 1981-82. Dr. Kenneth D. Mahrer received his Ph.D. from Stanford University in 1979 and held post-doctoral fellowships at the University of Sheffield (U.K.) and Northwestern University. His specialty is geophysics, especially the geophysical application of dislocation theory in continuous elastic media. Dr. Leslie D. McFadden received his Ph.D. from the University of Arizona in 1982 and has worked for the U.S. Geological Survey. His specialty is geomorphology, especially the development of soils in semiarid climates. The two additions reflect the continuing efforts to broaden the Department.

Associate Professor Raymond V. Ingersoll resigned at the end of the academic year to accept a position at the University of California, Los Angeles. Since joining UNM in 1976, Professor Ingersoll has made many significant contributions to the Department of Geology, especially in teaching and research in sedimentology and tectonics of sedimentary basins. We are sorry to see him leave and wish him every success in his new location.

Professors Ingersoll and Wells were granted tenure during 1981-82 and Professor Wells was promoted to Associate Professor.

The Department Chairman, Professor Ewing, was granted sabbatical leave for calendar year 1982. Most of his leave is being spent at the University of Queensland, Australia, and the Hahn-Meitner Institute for Nuclear Studies in Berlin, West

Germany. In his absence, Professor Elston was appointed Acting Department Chairman.

SUMMARY OF FACULTY ACTIVITIES

Research Activities

Faculty research continued at a very high level. The total amount of sponsored research grants and contracts in force during 1981-1982 was \$1,360,334 (Table 1). This total does not include thesis or dissertation research by students whose work is only partly supported by faculty research grants or by the Graduate Student Association, or is totally unsupported. A good deal of faculty research is also unsponsored.

In these times of budget cuts, it is encouraging that our funding has remained high and that support can still be obtained for new projects in the face of intense competition. Grants such as those awarded by the National Science Foundation to Professors Grambling (\$21,000) and Callender (\$84,083) are good examples. Publications of the faculty are listed in a separate section.

Professional Activities

Faculty and alumni of the UNM Department of Geology have long volunteered their services to local scientific societies. For example, the New Mexico Geological Society (NMGS) elected Professor Ewing as President for 1981; Professor Callender was Managing Editor and co-Editor of the 1981 Annual Guidebook; and Professor Wells co-edited a Special Publication on environmental

TABLE 1. Contracts and grants of the UNM
Department of Geology, F.Y. 1981-82

<u>PRINCIPAL INVESTIGATOR</u>	<u>ACCOUNT #</u>	<u>ENDING DATE</u>	<u>AMOUNT</u>
Anderson, Roger Y.	281-095-1XX	5/31/84	\$ 64,805
Brookins, Douglas G.	281-007-1XX	10/30/82	34,651
	281-950-1XX	6/30/82	20,845
	283-945-1XX	3/31/82	8,000
Callender, Jonathan F.	281-014-1XX	8/31/84	84,083
Elston, Wolfgang E.	281-174-4XX	4/30/82	31,000
	281-710-2XX	12/31/81	26,810
	281-711-2XX	2/28/83	84,872
	281-830-1XX	12/31/81	36,753
Gomez, Gerald	281-873-2XX	7/31/82	7,500
Granbling, Jeffrey	281-081-2XX	9/30/82	21,000
Ingersoll, Raymond V.	281-670-1XX	10/31/81	10,000
Jiracek, George R.	281-839-1XX	7/31/81	64,858
Keil, Klaus	281-192-1XX	1/31/82	104,100
	281-192-9XX	1/31/81	99,910
	281-206-5XX	2/28/81	85,741
	281-206-6XX	2/28/82	94,249
	281-571-5XX	9/30/81	29,909
	281-571-6XX	9/30/82	30,139
	281-790-3XX	9/30/82	209,187
	281-992-1XX	6/31/81	1,210
	281-192-2XX	1/31/83	97,995
Kudo, Albert	283-040-3XX	10/30/82	21,000
Wells, Stephen G.	281-017-1XX	4/30/82	54,917
Yapp, Crayton	281-081-5XX	9/30/82	12,000
	281-955-1XX	9/30/81	24,800
			<u>\$1,360,334</u>

geology of New Mexico. NMGS guidebooks and Special Publications contain much of the basic technical information on the geology of New Mexico and surrounding states and their preparation is a major public service contribution by the Department. Out of 33 guidebooks published annually from 1950 through 1982, 25 have been edited or co-edited by UNM faculty, adjunct faculty, or alumni. The 1981-82 period has been particularly productive because the NMGS is publishing a new geological map of New Mexico, a major task. Out of seven contributors, six are UNM faculty or alumni. The editor is a UNM alumnus, Professor R. E. Clemons (New Mexico State University); faculty contributors are Professors Woodward and Elston and Professor Emeritus Kelley; alumni contributors are Professor W. R. Seager (New Mexico State University) and Dr. Edmond G. Deal (Duval Corporation). Profits from the sale of NMGS publications are used for geology graduate student scholarships. The share allotted to UNM students in 1981-82 was \$3,250.

Other activities in State-wide organizations include Professor Elston's election to the Board of Directors of the New Mexico Mining Association (succeeding Professor Emeritus Kelley) and his election as Secretary-Treasurer of the New Mexico section, American Institute of Professional Geologists. Professor Kues served as Secretary of Natural History Research Management, Inc. and as Member of the Advisory Board for the New Mexico Museum of Natural History.

Professional activities of faculty members are not confined to New Mexico. On the national level, Professor Brookins served as

Associate Editor of the Proceedings, 4th International Symposium on the Scientific Basis for Nuclear Waste Management and as co-editor of Uranium, Professor Callender as Technical Editor of six issues of Geotectonics, Professor Ewing as Associate Editor of American Mineralogist, Professors Ingersoll and Woodward as Associate Editors of the Bulletin of the Geological Society of America, and Professor Keil as Associate Editor of the Journal of Geophysical Research. Professor Keil also served on the editorial boards of Chemical Geology and The Colorado School of Mines Quarterly, chaired the Lunar and Planetary Science Council of the University Space Research Association and served as member of the NSF-NASA Antarctic Meteorite Working Group. Every member of the Department was active in local, regional, and national scientific meetings, and several served as convenors or chairmen of meetings. International activities are listed separately in the next section.

INTERNATIONAL ACTIVITIES

The growing reputation of the UNM Department of Geology is reflected by a rising number of international contacts. They include invitations from foreign institutions to UNM faculty members as well as visits by foreign scientists to UNM. UNM faculty and staff members are active, as organizers and participants, in numerous international conferences and symposia.

Professor Ewing's sabbatical leave in Australia and Germany during 1982 is an example of participation by a UNM faculty

member in foreign institutions. Foreign contacts are expected to continue. For example, Professor Kudo received a Fellowship from the Japan Society for Promotion of Science, for research on the volcanoes of northeastern Honshu in collaboration with Professor Ken-ichiro Aoki of Tohoku University. Professor Kudo left for Japan in June, 1982 and will return in October, 1982. Professor Aoki spent a sabbatical leave at UNM about 10 years ago and helped establish our procedures for major-element rock analyses.

The UNM Geology Department is attracting a growing number of foreign scientists with research fellowships or on sabbatical leaves. Dr. John Bristow, a South African geologist, elected to spend 1981-82 at UNM after winning a post-doctoral Rotary Fellowship. Dr. Bristow, who earned his Ph.D. from the University of Cape Town in 1979, worked on problems in volcanic petrology in collaboration with Professor Elston. Dr. Ken-ichiro Okado, of Tohoku University, Japan, spent 24 months in the Institute of Meteoritics, working on meteorites in collaboration with Professor Keil. Dr. Rodney Holcomb, University of Queensland, Australia, has visited UNM repeatedly and is now co-investigator, with Professor Callender, in NSF-sponsored research on the geology of the Sangre de Cristo Mountains. A coal geologist from the People's Republic of China, Mr. Shi-jian Ju, arrived at UNM in June, 1982, for a two-year stay as Visiting Scholar. Further visits of foreign scientists are planned for 1982-83.

Several foreign students attended UNM with scholarships from foreign governments. Mr. Winfried Leopoldt, who was awarded his M.S. at the end of the 1981 Summer Session,

originally came to UNM from the University of Karlsruhe, West Germany, with a scholarship from the German Academic Exchange Service (DAAD). Mr. Gautam Sarkar of the Geological Survey of India is a Ph.D. candidate at UNM, with a scholarship from the Government of India and research support from Tenneco, Inc.

Five graduate students from West German Universities have come to UNM to work on advanced degrees from their home institution. Four students from the Aachen Technical Institute (Ms. Luane Martens, Messrs. Norbert Blum, Albrecht Schneider, Werner Fielitz) have completed "Diplomarbeiten" (roughly equivalent to M.S. theses) on the geology of areas between Silver City and Glenwood, Grant County, N.M., under joint supervision of Professors Hansgeorg Foerster (Aachen) and Elston (UNM). Mr. Adolf Bischoff, a Ph.D. candidate from the University of Muenster, conducted research in the Institute of Meteoritics. A proposal for financial support for a formal student exchange between UNM and the Aachen Technical Institute was unfortunately declined by the German Academic Exchange Service because New Mexico law prohibits UNM from waiving out-of-state tuition for foreign students. This law clearly places UNM at a disadvantage in attracting high-quality foreign students, in competition with other American universities.

Professor Keil attended the Meteoritical Society Conference in Berne, Switzerland, August 17-22, 1981, where he chaired a session, presented three papers, and was listed as coauthor on six papers. Professors Ewing and Anderson, Dr. Allen, and Mr. Haaker all attended the Fifth International Symposium on the Scientific Basis for Nuclear Waste Management in West Berlin,

June 7-10, 1982. Professor Brookins was appointed program Chairman of the Sixth International Conference, to be held in Boston in November, 1982.

These foreign contacts clearly benefit UNM by bringing scholarly and research talent to the campus and in stimulating us with fresh ideas. In view of public criticism of the UNM sabbatical leave policy, it needs to be emphasized that sabbaticals are a two-way street. The visitors who come to UNM at little or no expense to us more than balance the salaries that we pay to faculty on leave. The gains in prestige, scientific collaboration, and international intellectual leadership should alone justify the expense. Contacts made during sabbatical leaves may continue for many years. For example, the visits to Australia and New Zealand by Professor Elston in 1978-79 still bore fruit in 1981-82, with visits to UNM, lectures, and field trips by five geologists from a leading Australian mining company (Roxby Development, Ltd.) and by Dr. R. H. Flood (Macquarrie University, New South Wales). Arrangements were made for a visit in fall, 1982, by Professor Douglas Coombs (University of Otago, New Zealand). Professor Elston served as outside examiner on an M. Sc. thesis from the University of New England (Armidale New South Wales), covering the geology of an area he visited in 1979.

University Service

Faculty members continue to be active on departmental, college, and university committees. In the absence of Professor Ewing, Professor Elston served on the President's Committee on Excellence. Professors Yapp and Brookins were elected to the

Faculty Senate to represent, respectively, the junior and senior faculty of the College of Arts and Sciences.

STUDENT ACHIEVEMENTS

Degrees Awarded

The Department of Geology continued to operate at a high level during 1981-1982. Table 2 shows the number of degrees awarded.

Table 2. Degrees in geology awarded at UNM, 1980-81 and 1981-82

	<u>1980-81</u>	<u>1981-82</u>
B.A.	0	0
B.S.	16	11
M.S.	14	10
Ph.D.	3	0

The following students completed degrees during the report period:

B.S.

William Blount

Christopher Bradley

Sam Conner

David Hamilton

Bruce Kofron

James L. LoCoco

Arthur W. Miller, Jr.

Earl Morse

Sylvia Newsom

Caroline Persson-Reeves

Michael G. Rupert

Joyce Underwood

Joyce A. Whelchel

M.S.

Glen William Atwood, "Geology of the San Juan Peak Area, San Mateo Mountains, Socorro County, New Mexico"

James Robert Connolly, "Geology of the Precambrian Rocks of Tijeras Canyon, Bernalillo County, New Mexico"

Michael Stephen Fulp, "Precambrian Geology and Mineralization of the Dalton Canyon Volcanic Center, Santa Fe County, New Mexico"

Bruce Albert Harvey, "The Geology and Petrology of the Sunlight Basin Intrusion and Surrounding Area, Absaroka Volcanic Field, Park County, Wyoming"

Winfried Leopoldt, "Neogene Geology of the Central Mangas Graben, Cliff-Gila Area, Grant County, New Mexico"

Peter Maggiore, "Deformation and Metamorphism on the Floor of a Major Ash-Flow Tuff Cauldron, The Emory Cauldron, Grant and Sierra Counties, New Mexico"

Clayton Edward Olsen, "Geostatistical and Geochemical Investigations of the Uranium Distributions in Stream Sediments and in Surface and Ground Waters from the Estancia Valley, the Black Hawk Mining District, and an Area North of the Grants Mineral Belt, New Mexico: Application to Methods for Geochemical Exploration"

Mark Alan Parchman, "Precambrian Geology of the Hell Canyon Area, Manzano Mountains, New Mexico"

Jeannie Theresa Place, "Geology and Geochemistry of the Mariano Lake Uranium Mine, McKinley County, New Mexico"

William Dennis White, "Effects of Forest-Fire Devegetation on Watershed Geomorphology in Bandelier National Monument, New Mexico"

Employment Opportunities

All graduate students who completed their education in 1981-82 found employment, as did many undergraduates. Appendix A lists the companies that interviewed students in 1981-82.

Demand for geologists by industry has been high in the past several years and this was reflected in enrollments that were high for upper-division undergraduates, steady for M.S.-level graduate students and low for Ph.D.-level graduate students. The M.S. is the basic degree required for professional employment in the petroleum and mineral industries. In the hiring boom that prevailed through 1981, B.S. candidates were

commonly hired for jobs that normally required the M.S. and there was little incentive for graduate students to continue beyond the M.S. to the Ph.D. Academia and government service have been traditional havens for Ph.D.'s in geology but academic salaries have recently been low in comparison with industry and a hiring freeze has affected most positions in the federal government.

The hiring boom ended in late 1981, as the deepening economic recession caused sharp declines in metal prices and softening in petroleum prices. These conditions are likely to continue for some time and are typical of the cyclical nature of the mineral industries. As far as one can foretell, the next year or two are likely to see a drop in upper division undergraduate enrollments and an increase in applications for admission to the graduate program. Ph.D. enrollments may rise as our graduate program grows in stature. As industry jobs become scarcer, academia may become more attractive but academic openings are likely to decrease. On the positive side, industry is becoming increasingly aware of the value of the Ph.D. degree.

GRE Scores

Our undergraduate teaching program is rigorous and the GRE scores of graduating seniors are consistently above UNM and national norms. In 1980-81 the average score among UNM seniors taking the GRE Advanced Test in Geology was 623.8; the national norm for 1978-81 was 581. Among UNM Departments surveyed by Rodney W. Young (6th Report, UNM Exit Test Requirements, The Undergraduate Assessment Program, 1980-81), Geology is the only

UNM department in which GRE scores average well above the national norm (Table 3) and Geology and Music are the only ones in which scores are consistently at or above the national norm in every speciality (Table 4). GRE scores of graduate students are discussed in the next section of this report.

Awards

Graduate students and former graduate students earned 43 national and local scholarships (Table 5). Several notable awards resulted from competitions; among them were the Popejoy Award for the best UNM Ph.D. dissertation in the science and engineering areas for 1979-1982, won by James L. Gooding (Ph.D. 1979); the Robert K. Fahnestock Memorial Research Award of the Geological Society of America, for outstanding graduate student research in geomorphology, won by Thomas F. Bullard, (M.S. candidate); an award from the Quaternary Geology and Geomorphology Division of the Geological Society of America, also won by Mr. Bullard; and an award from the McGetchin Volcano Fund, won by Charles W. Criswell (M.S. candidate). UNM was picked for graduate studies in geology, beginning in 1982-83, by an NSF Fellow, Charles Bryan (B.S. Texas A & M University).

Special efforts are continuing to obtain financial support for students from minority groups who have been poorly represented in the geologic profession. L. David Nealy is working toward the Ph.D. with full support from the U.S. Geological Survey Graduate Intern Program. An undergraduate student, William Tsosie, and a graduate student, Gregory Martinez, were awarded \$250 and \$500, respectively, by the American Geological Institute.

TABLE 3. Field Advanced Test Averages at UNM
TOTAL POPULATION
1977-1978, 1978-1979, 1979-1980, 1980-1981

FIELD
TESTS

ADVANCED
TESTS

Test	Number				Average				UAP Norm ***		UAP Group		GRE Norm ****		GRE Group	
	77-78	78-79	79-80	80-81	77-78	78-79	79-80	80-81	77-78	78-81	77-78	78-81	77-78	78-81	77-78	78-81
* Art History	32	53	7	---	350.3	376.6	327.1**	---	358	312	286	720	---	---	---	---
Business	4	---	---	---	382.5**	---	---	---	431	430	13,677	9,580	---	---	---	---
Drma & Theatre	18	9	2	---	471.1	448.9**	245.0**	---	496	456	753	727	---	---	---	---
Physical Ed.	25	50	36	31	342.0	325.2	365.0	375.2	353	353	3,936	1,682	---	---	---	---
Speech Path.	14	4	---	---	579.3	525.0**	---	---	503	525	596	766	---	---	---	---
* Biology	79	83	71	75	607.6	603.4	592.7	584.4	563	576	6,648	8,266	617	625	46,046	60,556
* Chemistry	18	13	12	12	603.3	656.2	625.8	601.7	536	537	1,913	2,307	629	629	14,016	15,262
* Economics	26	42	37	46	546.2	516.0	490.8	522.6	509	507	2,633	3,046	587	600	12,134	10,482
* Education	202	248	217	176	410.6	434.2	432.5	436.4	420	414	12,405	11,922	452	454	62,461	40,925
* Engineering	126	211	211	189	538.6	522.7	525.2	541.1	517	500	1,458	821	593	490	18,974	18,113
* French	4	4	6	2	545.0**	457.5**	481.7**	490.0**	484	462	1,310	661	533	519	5,473	3,633
* Geography	9	5	8	10	455.6**	486.0**	416.3**	457.0	419	413	5,473	217	468	456	2,208	1,558
* Geology	10	16	20	16	620.0	613.1	581.0	623.8	543	574	160	285	579	581	5,609	7,360
* German	2	3	4	1	480.0**	510.0**	530.0**	510.0**	481	455	498	254	520	530	1,654	1,418
History	36	44	34	22	476.6	480.0	479.7	465.5	489	480	7,077	5,049	524	514	23,014	14,208
* Lit. in English	10	14	13	24	485.0	534.3	506.2	497.5	487	478	8,347	4,889	545	538	33,540	22,334
* Mathematics	13	14	20	13	630.8	585.7	596.0	588.5	505	522	4,500	2,888	664	687	17,163	12,375
* Music	25	28	17	36	498.8	515.0	470.0	490.6	433	428	2,441	3,581	492	498	8,134	9,035
* Philosophy	5	4	6	5	578.0**	462.5**	508.3	564.0**	547	542	1,167	857	650	645	4,130	2,754
* Physics	7	4	10	7	655.7**	697.5**	597.0	501.4**	501	474	734	532	651	655	10,199	9,201
* Political Sci.	46	63	45	35	464.8	433.7	435.1	458.9	461	443	3,056	3,030	486	473	14,790	11,027
* Psychology	63	78	69	60	468.1	486.8	491.7	495.0	477	473	5,457	6,538	520	530	58,387	54,655
* Sociology	20	21	31	23	447.0	442.9	421.0	433.5	429	408	6,538	5,934	468	457	15,478	9,975
* Spanish	14	18	19	16	522.9	513.3	481.1	492.5	468	444	1,280	762	546	539	5,063	3,529

* Approximately at or above the national norm for college seniors for 1980-81

** Considered an unstable average because of numbers

*** Seniors tested from 1969 through 1971 for 77-78; seniors tested from 1973 through 1976 for 78-81 norms

**** Graduate School candidates tested from 1971 through 1974 for 77-78; from 1974 through 1977 for 78-81 norms

TABLE 4. GRE Advanced Test Subscores at UNM by departments, 1977-81

	Average			GRE Norm**		
	77-78	78-79	79-80	80-81	77-78	78-81
Biology						
Cellular and Subcellular	62.4	63.5	62.7	60.1	62.6	62.7
Organismal	60.1	58.3	56.9	56.9	62.0	62.7
Population	60.4	59.8	60.1	59.4	62.1	62.3
Engineering						
Engineering	55.2	53.3	53.8	54.0	59.3	58.6
Math Usage	53.5	52.6	52.5	55.1	59.3	59.5
French						
Interpretive Reading	51.8***	43.5***	47.5***	51.0***	53.1	51.7
Lit. and Civilization	57.3***	50.0***	49.3***	46.5***	52.7	52.2
Geography						
Human	43.8***	43.8***	37.5***	44.4	46.6	45.6
Physical	48.1***	55.6***	48.0***	47.9	46.6	45.9
Geology						
Stratigraphy, Paleontology, and Geomorphology	59.8	57.6	55.1	57.3	58.0	57.9
Structural and Geophysics	61.1	62.6	61.3	61.8	58.0	58.1
Mineralogy, Petrology and Geochemistry	62.4	62.8	57.7	65.7	58.6	58.3
History						
European	48.3	48.0	48.1	46.7	52.2	51.5
American	47.5	47.9	49.3	46.8	52.1	51.4
Music						
Theory	50.0	50.3	47.2	49.8	49.6	49.9
History	50.1	52.0	47.5	48.9	49.8	49.8
Psychology						
Experimental	47.0	47.7	48.4	49.6	52.9	53.0
Social	50.3	50.9	50.6	52.2	53.1	53.2
Spanish						
Interpretive Reading	52.0	48.2	47.4	47.6	54.5	53.7
Peninsular Topics	51.1	52.3	49.3	49.9	54.2	53.7
Spanish-American Topics	57.6	55.6	49.7	52.3	55.3	54.4

* Sub-Scores available only for test listed

** Graduate school candidates tested from 1972 through 1974 for 78-79; from 1974 through 1977 for 78-81 norms

*** Considered an unstable average

Source: R. W. Young, 6th Report, UNM Exit Test Requirements,
The Undergraduate Assessment Program, 1980-81.

TABLE 5. Student Scholarships, 1981-1982

Harry and Mabel F. Leonard Scholarship Fund

Thomas Gugliotta	\$200.00
Sam Conner	\$700.00
Douglas H. Rappuhn	\$450.00
Dave D. Madsen	\$450.00
Michael Rupert	\$450.00
Deborah Arens	\$450.00
Earl Morse	\$450.00
Christopher Young	\$700.00
Joyce Wheelchel	\$450.00
Mary Jo Gilbert	\$700.00

El Paso Natural Gas Scholarship

William Blount	\$1,250.00
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General Thomas D. Campbell Memorial Scholarship

David Szklarz	\$900.00
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Geology Research and Scholarship Fund

Larry Smith	\$100.00
Ellen Lambert	\$350.00
Gregory Martinez	\$250.00

Table 5. (cont'd.)

Geology Research and Scholarship Fund (cont'd.)

Kevin Guilbeau	\$350.00
JoAnn Weber	\$250.00
Joel Grimm	\$100.00
Steven Sares	\$100.00
Thomas Bullard	\$350.00
Charles W. Criswell	\$250.00

Albuquerque Gem and Mineral Club

Alan Rubin	\$350.00
Michael Jercinovic	\$250.00

Rodney C. Rhodes Memorial Scholarship

Gautam Sarkar	\$100.00
Randy Albright	\$100.00
Paul Bauer	\$100.00

New Mexico Geological Society, Inc.

Susan M. Rhodes	\$180.00
Ellen E. Lambert	\$435.00
Paul W. Bauer	\$140.00
Lawrence Smith	\$310.00
Richard Lozinsky	\$105.00
Joel P. Grimm	\$350.00
Harlan Stein	\$350.00
Mark Picha	\$190.00
Kevin Guilbeau	\$235.00

Table 5. (cont'd.)

Richard Abitz	\$360.00
Randy Albright	\$180.00
David Ward	\$410.00

The Geological Society of AmericaMackin Research Fund

Thomas Bullard	\$500.00
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Sigma Xi, The Scientific Research Society

Paul W. Bauer	\$300.00
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McGetchin Volcano Fund

Charles Criswell	\$600.00
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The Geology Society of AmericaRobert K. Fahnstock Memorial Research Award

Thomas Bullard	\$600.00
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American Geological Institute

William Tsosie	\$250.00
Gregory Martinez	\$500.00

The majority of graduate students received financial support. A total of 40 Research (RA) and Teaching (TA) assistantships were awarded in 1982-82 (Table 6).

TABLE 6. Graduate Student Support

<u>NAME</u>	<u>TA/RA</u>	<u>ADVISOR</u>	<u>RESEARCH FUNDING</u>
Abashian, Mark	RA	Brookins	1) Lawrence Berkeley Labs 2) Geology Research Fund
Abitz, Richard	TA/RA	Elston	NSF
Albright, Randy	RA	Elston	New Mexico Energy R & D
Atwood, Glen	RA	Elston	NSF
Bauer, Paul	RA	Callender	
Bischoff, Adolf	RA	Keil	NASA
Bullard, Thomas	RA	Wells	New Mexico Energy R & D
Cates, Delores	PA	Elston	Harding Mine
Codding, David	RA	Grambling	Anaconda
Condit, Chris	RA	Elston	NASA, USGS
Criswell, Bill	TA/RA	Elston	NASA
Dickinson, Tammy	TA/RA	Keil	NASA
Ford, Rick	TA	Wells	
Grimm, Joel	TA/RA	Wells	New Mexico Energy R & D
Guilbeau, Kevin	TA	Kudo	
Harvey, Bruce	TA	Kudo	
Heller, Tony	TA	Brookins	NSF
Hudson, Jeanna	TA/RA	Elston	NSF
Jercinovic, Mike	RA	Keil	NASA
Lambert, Ellen	TA	Kudo	
Leopoldt, Winifred	RA	Elston	New Mexico Energy R & D
Maggiore, Peter	RA	Keil	NASA

Table 6. (cont'd.)

<u>NAME</u>	<u>TA/RA</u>	<u>ADVISOR</u>	<u>RESEARCH FUNDING</u>
Matheney, Ron	RA	Brookins	U.S. Bur. Mines
McKinley, James	RA	Keil	NASA
McKinley, Susan	RA	Keil	NASA
Murphy, Mark	RA	Brookins	Lawrence Berkley Laboratories
Nealy, L. David	RA	Elston/Keil	USGS
Picha, Mark	TA	Ewing	
Plummer, Dave	TA/RA	Grambling	Sandia
Rose, Devon	TA	Wells	New Mexico Energy R & D
Rubin, Alan	RA	Keil	NASA
Sares, Stephen	TA	Wells	
Sarkar, Gautam	RA	Elston	Tenneco, Govt. of India
Smith, Larry	TA/RA	Wells	New Mexico Energy R & D
Smith, Frank	TA/RA	Elston	NSF
Vogler, Bert	RA	Brookins	U.S. Dept. Energy
Ward, David	TA	Yapp	
Weber, JoAnn	RA	Elston/Grambling	NSF
Williams, Cecelia	TA/RA	Keil	NASA
Woodward, Thomas	RA	Elston	NSF

ADMISSION AND SELECTION OF GRADUATE STUDENTS

Enrollment Summary

A total of 272 students applied for admission into the Department of Geology graduate program for 1982-83, a substantial increase over the 154 who applied in 1981. The applicants were screened by the departmental Admissions Committee, chaired by Professor Kues, and 100 were accepted. Judging by past experience (Table 7), about 25 of those admitted will actually enroll in 1982-83, about 20 of them in Semester I. Detailed information on the characteristics of 1982 applicants is presented in Tables 8 and 9. Applicants for graduate study are judged on the basis of grades, recommendations, GRE scores, broadness of background in geology and related sciences, statement of goals in geology, and other evidence of potential for success in our program.

The increase in applicants in 1982 and the continuing ability to attract top graduate students partly reflect efforts to distribute information on the Department to all schools in the United States having undergraduate geology programs. Virtually all students who enroll in our graduate program come from schools other than UNM; we advise our own undergraduates to attend graduate school elsewhere.

Financial Aid

Financial aid allows us to compete in attracting excellent students to UNM. Vincent C. Kelley and Leon T. Silver Graduate

Fellows (Table 10) are clearly of the very highest rank nationally. In addition, the Department offered a total of 18 full-time Teaching Assistantships (TA's) and 3 full-time Research Assistantships (RA's) to 1982 applicants. Of these, 6 accepted our TA offers and all accepted their RA offers, making (with the Silver and Kelley Fellowships) a total of 11 new graduate students for 1982 who will be fully supported. Additional RA's may become available before August 1982, if faculty grant proposals now pending are funded. For more information on new financial aid recipients, see Table 9. Some applicants whom we accepted, but could not offer financial aid, accepted offers from other schools.

GRE Scores

GRE scores for accepted 1982-83 applicants averaged in the 69th percentile on the verbal part of the exam, 78th on quantitative, and 67th on the geology advanced test; about 20% scored in the 90th percentile or above on the geology advanced test. The grade point average (GPA) for accepted students is 3.35 (A = 4.00). Average GRE scores for applicants offered financial aid were in the 85th percentile (Table 10). The Department of Geology intends to maintain admission standards well above the minimum requirements of the UNM Graduate School.

Table 7. Summary of graduate applicant Data for Fall, 1981

	Male	Female	TOTAL	Minority	Foreign	Total PhD	Total M.S.
A. Applicants to Graduate Program							
Accepted	49	13	62	4	1	4	58
Not accepted	27	6	33	2	2	2	31
TOTALS	76	19	95	6	3	6	89
Additional Incomplete Applications			42				
TOTAL APPLICANTS			137				
Total Enrolled	14	2	16	0	0	0	16
UNM students enrolled	2	1	3	-	-	-	3
B. Financial Aid Data (Assistantships and Fellowships)							
Aid Offered	16	2	18	0	1	3	15
Aid accepted	5	2	7	0	0	0	7
% accepting our offer: 39%							
C. Graduate Record Exam Data							
	Verbal	Quantitative	Analytical	Advanced Geology			
a) Accepted applicants							
Average raw score	554	639	608	651			
Average percentile	66	77	75	73			
b) Applicants not accepted							
Average raw score	458	551	513	537			
Average percentile	44	58	53	38			

Table 8. Summary of Graduate Applicant Data for Spring, 1982

	Male	Female	TOTAL	Minority	Foreign	Total PhD	Total M.S.
A. Applicants to Graduate Program							
Accepted	11	3	14	2	2	6	8
Not accepted	9	-	9	-	-	-	9
TOTALS	20	3	23	2	2	6	17
Additional Incomplete Applications			3			-	3
TOTAL APPLICANTS			26	2	2	6	20
Total Enrolled	2	3	5	1	-	1	4
UNM Geology undergraduates enrolled	-	1	1	-	-	1	-
B. Financial Aid Data (Assistantships and Fellowships)							
Aid Offered	1	-	1	-	-	1	-
Aid accepted	-	-	-	-	-	-	-
% accepting our offer	0						
C. Graduate Record Exam Data							
	Verbal	Quantitative	Analytical	Advanced Geology			
a) Accepted applicants							
Average raw score	555	614	549	629			
Average percentile	66	70	-	63			
b) Applicants not accepted							
Average raw score	515	588	415	580			
Average percentile	59	66	-	49			

Table 9. Summary of Graduate Applicant Data for Fall, 1982

	Male	Female	TOTAL	Minority	Foreign	Total PhD	Total M.S.
A. Applicants to Graduate Program							
Accepted	59	27	86	4	5	13	73
Not accepted	39	13	52	-	2	3	49
TOTALS	98	39	138	4	7	16	122
Additional Incomplete Applications			108				
TOTAL APPLICANTS			246				
Total Enrolled	17	4	21	1	-	5	16
UNM geology students enrolled	1	-	1	-	-	-	1
B. Financial Aid Data (Assistantships and Fellowships)							
Aid Offered	16	11	27	1	1	6	21
Aid accepted	11	3	14	-	1	3	11
% accepting our offer	69	27	52	0	100	50	52
C. Graduate Record Exam and Grade Point Average Data							
	Verbal	Quantitative		Analytical	Advanced Geology	GPA	
a) Accepted applicants							
Average raw score	565	638		608	639	3.35 (B.S.)	
Average percentile	69	78		-	67	3.77 (M.S.)	
b) Applicants not accepted							
Average raw score	491	570		541	553	2.89 (B.S.)	
Average percentile	52	62		-	40		

Table 10. GPA'S and GRE Scores for Graduate Students Admitted with Financial Aid for 1982-83

	STUDENT	SCHOOL	GPA	GRE SCORES			
				V	Q	A	G*
I.	KELLEY/SILVER FELLOW						
	1. Elizabeth Blair	Indiana	3.97	not taken			
II.	NSF FELLOW						
	1. Charles Bryan**	Texas A & M	3.90	85-94-660-99			
III.	TEACHING ASSISTANTS						
	1. Daniel Clements	Virginia Poly-technic Inst.	3.39	95-99-590-85			
	2. Elizabeth Colvard	No. Carolina	3.30	93-71-640-70			
	3. Gerald Kepes	Dayton	3.42	79-88-660-90			
	4. Mark Longden	Calif. State, Chico	3.33	86-85-720-99			
	5. Kurt Loeff	Texas A & M	3.39	72-93-640-73			
	6. Steven Recca	SUNY-Brockport	3.51	88-88-770-97			
IV.	RESEARCH ASSISTANTS***						
	1. George McCall	Clemson	3.52	61-71-410-93			
	2. Nancy Ordway	Portland St.	3.20	80-83-690-N.A.			
	3. Michael Williams	Amherst (B.S.) Arizona (M.S.)	3.30 3.80	81-88-590-58			

* V-verbal, percentile; Q-quantitative, percentile;
A-analytical, absolute score; G-geology advanced test, percentile.
** Bryan will be on an NSF Fellowship his first year, on Silver/Kelley Fellowship in following years
*** Additional new students may be offered full or part-time R.A.-ships if pending faculty grant proposals are funded

CURRICULUM REVISIONS

A revised undergraduate curriculum was successfully put into effect in 1981-82. Revisions in Ph.D. and M.S. requirements were approved (Appendix B). The principal purpose was to make the graduate program in geology more attractive to students in related sciences who wish to transfer into the geology program.

Further revisions to broaden the curriculum are in the process of adoption. With the addition of Professor McFadden to the faculty, the following new courses were approved:

Geology 484, Soil Genesis, (3) McFadden

Processes of physical and chemical weathering; influence of soil parent materials, climate, topography, and time on soil formation; application of soil studies to geologic problems.

PREREQUISITES: Geol. 101; 481L or permission of instructor.
Three lectures (Fall, 1982 and alternate years).

Geology 485L, Soil Stratigraphy and Morphology, (3) McFadden

Application of soils studies to stratigraphic analysis and mapping of Quaternary deposits and geomorphic surfaces; survey of soil classification; field description of soil profiles; development of soil chronosequences and catenas.

PREREQUISITES: Soil Genesis; Geol. 481L, 484, or permission of instructor.
Two lectures, four hours lab. (Fall 1983 and alternate years).

In addition, it is planned to offer, on occasion, Geology 516 (Selected Topics in Geomorphology) as Soil Mineralogy. The course would cover investigation of minerals in soil environments with emphasis on authigenesis, stability, and laboratory analysis of clay minerals, iron and aluminum oxhydroxides, calcium carbonate, and soluble salts; application of chemical data to theories of soil genesis; and soil-geomorphic studies.

These new courses will be part of a new Quaternary Studies Program in which Professors Wells, McFadden, Yapp, and Anderson will participate. A proposal for a grant of \$35,480, to create a Laboratory for Quaternary Studies, was written by Professors Wells and McFadden and funded for 1982-83 by the UNM Foundation. The new laboratory will be one of only three of its kind in the United States.

An interdisciplinary program for an M.S. degree in Geochemical Engineering was adopted jointly by the Department of Chemical and Nuclear Engineering and the Department of Geology (Appendix C). Students holding a B.S. in Geology would be required to take a core curriculum in engineering and elective courses in geology and process engineering topics related to petroleum, geothermal energy, minerals, and coal. Students holding a B.S. in Chemical and Nuclear Engineering would have the same choice of elective courses but would take a core curriculum in geology. The recommended curriculum is subject to approval by the College of Arts and Sciences, the College of Engineering and the Graduate School.

Discussions were begun by the Associate Provost for Research, Dr. Scaletti, on a proposed Center for Materials Science. The Department of Geology, which already possesses much of the equipment needed for Materials Science, would support Materials Science as an interdisciplinary program of teaching and research. However, the primary functions of the Geology Department would remain in the earth sciences.

In general, the Geology Department is moving into new applied areas, as needs arise. It is becoming known as a center

for studies in geologic aspects of management of radioactive wastes, through the research of Professors Ewing, Keil, Brookins, Anderson, and Callender

CHANGES IN DEPARTMENT OFFICE

1981-82 saw a major reorganization of the Department Office. The growth of activity in the Department justified the addition of an Administrative Assistant, Ms. Marguerite Swanson. Ms. Elaine Newman, Department Secretary, and Ms. Constance Hackney, Bookkeeper, joined the office staff, taking the places of Ms. Sheryl Seay and Ms. Ramona Caplan, who resigned. The installation of an IBM Displaywriter word processing system has greatly increased the productivity of the Department office.

EXPANSION OF LABORATORY FACILITIES

Laboratory facilities were significantly expanded in 1981-1982. The basement under the south wing of Northrop Hall is being remodeled to accommodate new research equipment, principally for the Institute of Meteoritics, directed by Professor Keil. Phase I, which included the hallway and scanning electron microscope room, was begun in May, 1981, and completed in August, 1981. Phase II was begun in June, 1982 and is due to be completed in October, 1982. It will provide space for the existing ARL electron microprobe and the newly-ordered JEOL electron microprobe, a

laboratory for future equipment, darkroom facilities, an office for Mr. Conrad and storage space for the Institute of Meteoritics. The total cost of Phases I and II is \$354,000.

An order has been placed for a new electron microprobe. The existing microprobe, an ARL instrument purchased in 1968, has been the mainstay of research in the Institute of Meteoritics and an important tool in igneous and metamorphic petrology. During 1982 it will be supplemented by a state-of-the-art JEOL Superprobe (a fully automated 5 - spectrometer instrument with energy-dispersive detector).

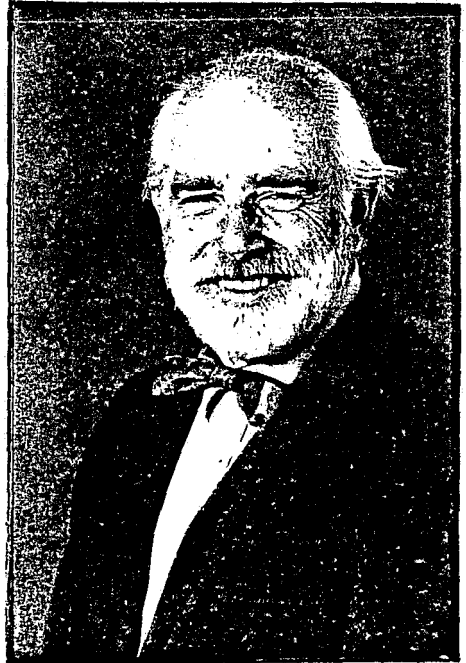
The move of the Analytical Chemistry Laboratory, from the main floor to more spacious quarters on the second floor, was completed during 1981-82. A Rigaku 3064M X-ray fluorescence spectrometer (with rhodium target within window) has been installed and will greatly increase our analytic capacity for elements with atomic weights as low as fluorine. The departmental chemist, Mr. Husler, and a post-doctoral research associate, Dr. John Bristow, offered a short course in the use of this equipment. The space vacated by the Analytical Chemistry Laboratory on the main floor will house the new Quaternary Studies Laboratory.

The stable light-isotope laboratory, headed by Professor Yapp, became operational during 1981-82. Dr. Michael Pedley, who received his Ph.D. from the University of Keele (U.K.) joined the staff as chemist, in stable light-isotope geochemistry. The laboratory is currently determining deuterium/hydrogen ratios (δD).

During its 1980, 1981 and 1982 sessions, the New Mexico Legislature approved equipment bond issues for science and engineering departments in State institutions. The proceeds of these issues have been crucial in expanding and improving our laboratory facilities. The X-ray fluorescence unit, for example, was largely purchased with State equipment bond money and the new electron microprobe is being purchased with \$250,000 from the State bond issue and a matching \$180,000 grant from the National Science Foundation, awarded to Professor Keil. Further additions to our laboratories are planned for 1982-83. If the Legislature continues to approve bond issues for two more years, the UNM Geology Department will have the equipment appropriate to a first-rate teaching and research university.

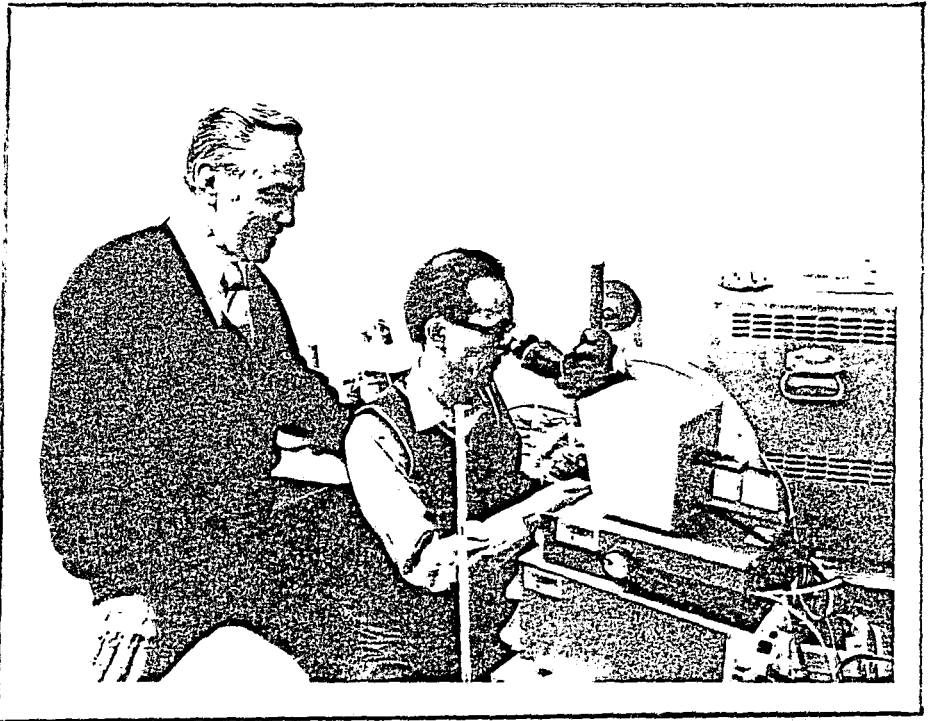
THE CASWELL SILVER FOUNDATION

In 1981-82 the Caswell Silver Foundation completed its first complete year of operations. Professor Donald F. Bloss, on leave from Virginia Polytechnic Institute, was in residence as the first Caswell Silver Distinguished Professor. Professor Bloss, a distinguished mineralogist and author of widely-used texts, received his Ph.D. from University of Chicago in 1951. At UNM, he taught a seminar on the spindle-stage technique of optical crystallography, a technique largely developed by himself. A spindle-stage laboratory, established by Professor Bloss, will remain permanently in the Department and provide us with a rare research capability. During his residence at UNM, Professor Bloss advised students, conferred with members of the faculty and participated in many departmental functions. He was assisted by a graduate student from Virginia Polytechnic Institute, Mr. Shu-Chun Su, our first visitor from the People's Republic of China. Several papers written by Professor Bloss will name UNM as his home institution.



Dr. William T. Holser
Caswell Silver Distinguished
Professor 1982-83

For 1982-83, Professor William T. Holser will be the second Caswell Silver Distinguished Professor. Professor Holser was awarded his Ph.D. by Columbia University in 1950 and has had wide experience in academia (Cornell University, UCLA, University of Michigan, and University of Oregon) and industry (Batelle Memorial Institute, Chevron Field Research Company). His specialty is the geochemistry of evaporite sediments and the chemical evolution of oceans. His work at UNM will be in close association with Professors Anderson and Brookins.



The first Caswell Silver Distinguished Professor, Dr. F. Donald Bloss, was in residence 1981-82.

The first two graduate students to be awarded Vincent C. Kelley-Leon T. Silver Fellowships were in residence during 1981-82. They are Mr. John Pickle (B.S., Franklin and Marshall College, specializing in geomorphology) and Mr. Robert Trumbull (B. S., Stanford University, specializing in petrology). For 1982-83, an additional Fellowship was awarded to Ms. Elizabeth Blair (B.S., University of Indiana).

Fourteen faculty members and graduate students were awarded travel grants by the Caswell Silver Foundation, to present papers at scientific conferences. Titles of papers are listed in Appendix D.

In 1981-82 the Caswell Silver Foundation sponsored the following guest lecturers:

Dr. Lawrence Grossman, University of Chicago, September
22-25, 1981.

Dr. Hans Suess, University of California-San Diego,
December 1-4, 1981.

Dr. William W. Hay, University of Miami (Florida) January
24-26, 1981.

Dr. William T. Holser, University of Oregon, February 6-9,
1981.

Dr. A. Flexer, Tel Aviv University, March 24-April 12, 1981.

Dr. Robert Weimer, Colorado School of Mines, April 8-9,
1981.

Dr. Flexer gave a series of talks on the geologic setting of Middle East oil fields, in the nature of a short course attended by members of the public as well as students and faculty. Other visitors gave one or two talks; titles are listed in Appendix E.

The Board of Directors of the Caswell Silver Foundation met at UNM on October 16, 1981, and February 13, 1982. The Board consists of its President (Mr. Caswell Silver, President, Sundance Oil Company, Denver), Secretary-Treasurer and Chairman of the UNM Department of Geology (Semester I: Professor Ewing, Semester II; Professor Elston), one additional UNM faculty member (Professor Keil) and two alumni (Professor Leon T. Silver, California Institute of Technology and Mr. Edward C. Beaumont, Consultant Geologist, Albuquerque). Professor Emeritus Vincent C. Kelley was invited to attend the meetings of the Board.

ENERGY EXPLORATION EDUCATION, INC.

Energy Exploration Education, Inc. (EEE, Inc.) is a non-profit corporation, organized to support the program in petroleum geology at UNM. Contributions have come from industry and from individuals, mainly alumni. In 1981-82 assets passed the \$100,000 mark. The members of the Board of Directors are listed in Appendix F.

In alternate years, EEE, Inc. supports a distinguished professor of petroleum geology. This position is normally filled by a petroleum geologist from industry, who teaches two courses incorporating the latest information on petroleum exploration. The first person to hold this visiting professorship was Dr. Frank Counselman, past president of the American Association of Petroleum Geologists.

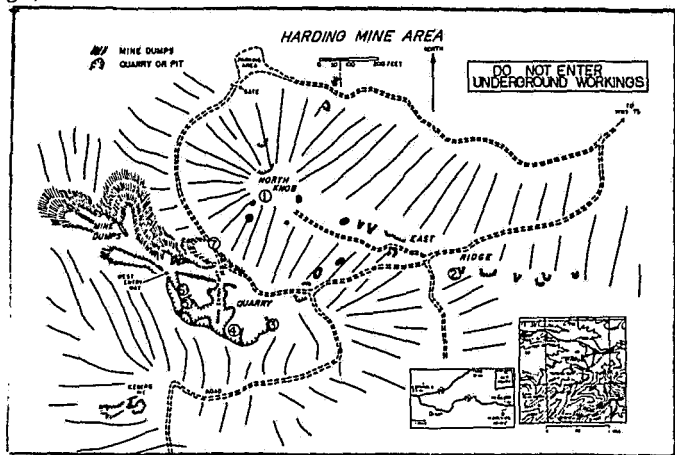


Sherman A. Wengerd

In semester II, 1981-82, Dr. Sherman A. Wengerd, Professor Emeritus, UNM, returned to the Geology Department as Distinguished Professor of Petroleum Geology. Professor Wengerd taught Geology 442 (Petroleum Geology) and Geology 548 (Seminar in Subsurface Analysis).

HARDING MINE

On July 9, 1981, the Harding pegmatite mine in Taos County was deeded to the Regents of UNM by Dr. Arthur Montgomery, Professor Emeritus, Lafayette College, Easton, Pennsylvania. The property consisted of one patented and eleven unpatented mining claims. A patent for the entire property was issued on December 22, 1981, following passage of an Act of Congress. On February 17, 1982, the Regents passed a resolution expressing gratitude and appreciation to Dr. Montgomery (Appendix G). The Geology Department administers the property, which is being maintained as an outdoor educational and scientific site. It is open to the public but visitors must sign a release. A caretaker, Mr. Eliseo Griego, lives near the mine.



Between 1919 and 1958 the Harding Mine produced significant amounts of lithium, tantalum, niobium, and beryllium. Under the terms of the patent issued to UNM, the mine will not be worked commercially unless the Secretary of the Interior determines that mining is necessary for the security of the United States. In that event, royalties will be paid to the United States.

During 1981-82, 528 visitors were recorded at the Harding Mine. They included professional geologists and mineralogists, amateur mineral collectors, and tourists. Underground workings are closed to the public but mineral collecting for personal use is permitted in the open pit.

GIFTS TO THE DEPARTMENT

The Geology Department received numerous gifts throughout the year. The Alumni Fellowship Fund continues to grow, largely through the efforts of Professor Emeritus Vincent C. Kelley. Gifts and pledges passed the \$40,000 mark at the end of 1981-82. Interest provides scholarships for students. Contributors are listed in Appendix H. A 245 carat blue topaz was donated by Mr. and Mrs. William K. Shepard. This gift and many others, from individuals and corporation, are listed in Appendix I.

DISTINGUISHED SPEAKERS

The Geology Department sponsored 48 lectures by distinguished speakers in its colloquium series during 1981-82. Their names and topics are listed in Appendix E. The

Department participates in the Sandia-UNM Colloquium, the Distinguished Lecturer series of the American Association of Petroleum Geologists, the Thayer Lindsley Distinguished Lecturer series of the Society of Economic Geologists, and the Caswell Silver Distinguished Lecturer series of the Caswell Silver Foundation. All lectures are open to the public and are regularly announced in news media and at meetings of the Albuquerque Geological Society.

PUBLIC SERVICE

The Department of Geology and Institute of Meteoritics maintain the Geology and Meteorite Museums, respectively, both located on the ground floor of Northrop Hall and open to the public. They are visited throughout the year by many thousands of visitors, including tourists and classes of school children. The Department also holds open houses and gives guided tours to visitors on request. It was host to a delegation of State Legislators on Legislator's Day in November, 1981; to teachers in secondary and adult education from Indian Pueblos in November, 1981 and April, 1982; to parents of UNM students on Parents Day in September, 1981; to high school seniors on Seniors Day in November, 1981, to Friends of the Library in November, 1981, and to distinguished alumni in May, 1982. The Department also hosted a commercial microscope display for all UNM science departments on November 11, 1981.

At the State Fair, the Geology Department manned a booth and displayed an exhibit on the geology and resources of New

Mexico, prepared by Professor Grambling and Ms. Judith Salas. Part of the exhibit, a lighted showcase titled "Mineral and Energy Resources of New Mexico", prepared by Ms. Salas, was subsequently displayed in the Albuquerque Convention Center at the request of Senator Harrison H. Schmitt, Jr. and is now in the hallway of Northrop Hall. A copy is now being made and will be located in the lobby of the Department of Energy and Minerals Building in Santa Fe.

1. ADVANCED STUDY

Douglas G. Brookins

Re-certification as Professional Chemist.

Rodney C. Ewing

November 16-19, Boston, Massachusetts: Fourth International
Symposium on the Scientific Basis for Nuclear Waste
Management sponsored by the Materials Research Society.

2. SABBATICALS, LEAVES OF ABSENCE, TRAVELS, ETC.

Roger Y. Anderson

Travel: summer field season travel to New York, Minnesota, Washington, and California.

Douglas G. Brookins

Travel: Sun Valley, Idaho: low level radioactive waste management meeting;

Los Angeles, CA: Low level radioactive waste management meeting;

Grants Mineral Belt, NM: field work;

Southeastern NM: field work;

Zuni Mountains, NM: field work;

Fort Collins, CO: symposium on uranium mill tailings;

Boston, MA: symposium on scientific basis for nuclear waste management.

Jonathan F. Callender

Travel: central California (field work); Biloxi,

Mississippi (Nuclear Waste Forum); northern New Mexico (Field work); Denver, Colorado (Assoc. Earth Science Editors); Grand Junction, Colorado (New Mexico Geological Society).

Wolfgang E. Elston

Guest lecturer & excursion leader, UNM German Summer School,

Taos, NM June 23-24. Instructor, two short courses on "Volcanic Rocks and their Vent Areas" (for the exploration geologists in the mining industry), Univ. of Nevada-Reno, Division of Continuing Education and Mackay School of Mines, May 18-22 and October 19-20. Geologic Field work in southwestern New Mexico and Mount St. Helens, WA.

Rodney C. Ewing

February 12-15, Tucson, Arizona: Symposium on the Origin of Pegmatites, sponsored by the Friends of Mineralogy and the Mineralogical Society of America.

March 3-5, Philadelphia, Pennsylvania: Travel to the Philadelphia Academy of Sciences to select samples for study; guest lecturer before the Philadelphia Mineralogical Society.

March 16-20, Phoenix, Arizona: Symposium of the Division of Condensed Matter Physics: Nuclear Waste sponsored by the American Physical Society.

April 13-16, Albuquerque, New Mexico: Rocky Mountain Section of the American Association of Petroleum Geologists. Representative for the New Mexico Geological Society.

April 23-25, Oakridge, Tennessee: Travel on Oak Ridge National Laboratory Associated Universities grant to discuss and continue experiments in radiation effects in crystalline materials.

May 15-17, Atlanta, Georgia: Meeting of the Alternative Waste Form Peer Review Panel, sponsored by the Department of Energy.

June 1-5, Julich, Federal Republic of Germany: International

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Seminar on Chemistry and Process Engineering for High-Level Liquid Waste Solidification, sponsored by Kernforschungsanlage Julich GmbH and the Gesellschaft Deutscher Chemiker.

June, Research Scientist, Hahn-Meitner Institute, Berlin, Germany.

October 8-10, Grand Junction, Colorado: Annual Meeting of the New Mexico Geological Society.

October 22-23, Stanford, California: Eighth Annual Stanford Synchrotron Radiation Laboratory Users Group Meeting.

October 29-November 1, Cincinnati, Ohio: Amphibole Short Course sponsored by the Mineralogical Society of America.

November 1-November 4, Cincinnati, Ohio: Annual Meeting of the Geological Society of America.

June-November, Research Scientist, Hahn-Meitner Institute, Berlin, Germany

Jeffrey A. Grambling

Houston, Texas: Discussions with staff at Exxon Production Research laboratories, Jan. 1-2, 1981.

Hermosillo, Mexico: Attended Cordilleran Section meeting of the Geological Society of America, March 25-27, 1981.

Sangre de Cristo Mountains, New Mexico: summer field work, June-August, 1981.

Grand Junction, Colorado: Attended annual field conference of the New Mexico Geological Society, Oct. 8-10, 1981.

Cincinnati, Ohio: Attended annual meeting of the Geological Society of America, Nov. 2-5, 1981.

Raymond V. Ingersoll

Travel to New York, Mazatlan, Los Angeles, San Francisco;

Fieldwork in west Texas, various parts of New Mexico, and California.

Klaus Keil

Sabbatical leave of absence, Spring semester, 1981. (Jan. 1-May 15, 1981).

Houston, Texas. Served on Program Committee for 12th Lunar and Planetary Science Conference, Lunar and Planetary Institute, January 29-February 1, 1981.

Detroit, Michigan. Attended Edison Foundation Meeting and presented invited talk, February 10-11, 1981.

Pasadena, California. Served as Distinguished Visiting Scientist, Jet Propulsion Laboratory, February 16-28, 1981. Worked on resource and exploitation potential of asteroids and presented invited talk.

Sao Paulo, Brazil. Served as Distinguished Visiting Professor, Institute of Astronomy and Geophysics, University of Sao Paulo; presented a series of 12 lectures on the relationship of meteorites to comets and asteroids, and one invited talk, March 8-28, 1981.

Rio de Janeiro, Brazil. Carried out research on Brazilian meteorites and presented two invited talks at the Brazilian National Astronomical Observatory and at the Brazilian Center for Research in Physics, March 28-April 4, 1981.

Houston, Texas. Attended meeting of the joint NSF-NASA Antarctic Meteorite Working Group, Lunar and Planetary Institute. April 10-14, 1981.

Mainz, West-Germany. Carried out and initiated new research on

five meteorites, and completed writing of joint paper on the Johnstown pyroxenite, Max-Planck-Institute for Chemistry. April 23-May 9, 1981.

Munster, West-Germany. Visited Departments of Chemistry and Mineralogy to discuss joint research and exchange of graduate students (two Munster students are now working at UNM) as well as presented talk. April 19-30, 1981.

Cologne, West-Germany Visited Department of Mineralogy and Petrology and presented talk. May 7, 1981.

Madrid, Spain. Initiated joint research program on Spanish meteorites between Institute of Meteoritics, UNM, and the National Museum of Natural History (Madrid), the Geological Institute of the Supreme Council of Scientific Investigations (Madrid), and the Geological Museum Barcelona; obtained meteorite specimens for research and presented talk. May 10-15, 1981.

Saarbrücken, West-Germany. Presented two talks at the Department of Inorganic Chemistry and Mineralogy, University of Saarbrücken. May 17-19, 1981.

Paris, France. Initiated joint research and completed joint paper on the meteorite Parambu, Museum National d'Histoire Naturelle, May 20-25, 1981.

Taos, New Mexico. Gave invited lecture at German Summer School, UNM, Department of Modern and Classical Languages July 7-8, 1981.

Snowmass, Colorado. Participated in workshop on "Spacewatch: The effects of asteroidal impacts on the earth". July 12-17, 1981.

Baltimore, Maryland. Participated in review panel on "Future Instrumentation for Space Flight", Goddard Space Flight Center, July 27-30, 1981.

Berne, Switzerland. Attended Meteoritical Society Meeting, chaired session, presented three papers and co-authored six papers. August 17-22, 1981.

Pasadena, California. Participated in review of NASA programs, California Institute of Technology. Sept. 3, 1981.

Washington, D.C. Participated in meeting of Antarctic Meteorite Working Group, NASA-NSF, Smithsonian Institution. Sept. 12-15, 1981.

Houston, Texas. Attended the workshop on "Comparison of meteoritic and lunar breccias", presented one invited talk, and co-authored 1 paper. Lunar and Planetary Institute, Nov. 9-11, 1981.

Los Lunas, New Mexico. Presented talk at Solomon Middle School. Dec. 8, 1981.

Farmington, New Mexico. Presented talk before Farmington Geological Society. Dec. 10, 1981.

Albert M. Kudo

Travel to northwestern Wyoming to do field work in Sunlight Basin, Absaroka Mountains, July-August.

Travel to San Francisco, Calif., to attend and present paper at Annual Meeting of American Geophysical Union, Dec. 6-11.

Research Scientist, Institute of Mineralogy, Petrology and Economic Geology, Tohoku University, Sendai, Japan, June-October, 1982. Travel to Grand Junction, Colo., to

attend Field Conference of New Mexico Geological Society,
October.

Barry S. Kues

Sabbatical leave, spring semester, 1981.

Travel to several parts of New Mexico for paleontological
research.

Travel to Puerto Penasco, Mexico, marine station to observe
modern subtropical marine environments.

Kenneth D. Mahrer

Travel: Sheffield England, July-Aug. 1981.

Leslie D. McFadden

Travel to the following meetings:

March 25-27, Hermosillo, Sonora, Mexico: Cordilleran Section
Meeting of the Geological Society of America.

April 7-8, San Francisco, California: Travel to
Woodward-Clyde Associates to discuss aspects of
soils-geomorphic research; guest lecturer on development of
soils chronosequences in southern California.

April 22-23, Menlo Park, California: Travel to the United States
Geological Survey; guest lecturer on application of analyses
of iron oxyhydroxides and calcium carbonate in soils to
soils-geomorphic problems.

September 18, 19 and 20, Aspen, Colorado: Friends of the
Pleistocene, Rocky Mountain section.

October 19-25, Las Cruces, New Mexico; Travel to New Mexico State University to attend shortcourse and field seminar on the Desert Project.

November 16, Los Angeles, California: California State University at Los Angeles to present a presentation on tectonic geomorphic analyses in the San Gabriel Mountains, Geology Speakers Forum.

Conducted field trip, "Late Quaternary pedogenesis and alluvial chronologies of the Los Angeles Basin and San Gabriel Mountains, California.

Late Quaternary Pedogenesis and Alluvial Chronologies of the Los Angeles and San Gabriel Mountains Areas, Southern California and Holocene Faulting and Alluvial Stratigraphy within the Cucamonga Fault Zone: A Preliminary View; Field Trip Number 12 prepared for the 78th Annual Meeting of the Cordilleran Section of the Geological Society of America, Anaheim, California, April 11-21 1982.

Stephen G. Wells

Travel to Oregon, Washington and Montana and the Canadian Provinces of British Columbia and Alberta for information and photography of regional geomorphology; travel to Kentucky to conduct research in and near Mammoth Cave Park; travel to Hermosillo, Mexico to present two papers; travel to Cincinnati, Ohio to attend GSA annual meeting and hydrogeology fieldtrip.

Lee A. Woodward

Travel: Geological work in Montana, Wyoming, Colorado,
Arizona, Utah and Texas.

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

F. Donald Bloss

June 1981: Award for Teaching Excellence (Virginia Polytechnic
Institute and State University)
Invited to Mainland China to lecture

Douglas G. Brookins

Fellow, Mineralogical Society of America
Ten year service recognition, University of New Mexico
Who's Who in America (42 Ed.)
Who's Who in the World (6th Ed.)
International Who's Who of Intellectuals

Jonathan F. Callender

Elected Honorary Member, New Mexico Geological Society
Certificate of Recognition, Society of Sigma Xi
Presidential Recognition Award, University of New Mexico.

Rodney C. Ewing

Who's Who in Technology Today

Jeffrey A. Grambling

Elected to Sigma Xi, Spring 1981
Nominated for Secretary, New Mexico Geological Society

Raymond V. Ingersoll

Elected to Fellowship in the Geological Society of America.

Klaus Keil

University of New Mexico Annual Research Lecturer for 1981.

Appointed Distinguished Visiting Scientist for 1981, Jet Propulsion
Laboratory, Pasadena, California.

Appointed Distinguished Visiting Professor for 1981. Department
of Astronomy and Geophysics, University of Sao Paulo, Sao
Paulo Brazil.

Albert M. Kudo

Received a Fellowship to do research on volcanoes in northeastern
Japan, for next summer and fall, from the Japan Society for
the Promotion of Science

Barry S. Kues

Selected for listing in "Who's Who in the West"

Selected to edit UNM Press's series of books on New Mexico
Natural History

Selected best teacher in Geology Department, 1981-1982.

Kenneth D. Mahrer

Elected to active membership in the Society of Exploration
Geophysicists

NSF National Needs Fellow, Northwestern Univ., Evanston, IL,
1980-1981

Inducted to Sigma Xi, National Research Fraternity

Joined American Association for the Advancement of Science;

Society of College Science Teachers; The Planetary Society

Leslie D. McFadden

Change from student member to full member status, Geological
Society of America

Joined: American Quaternary Association; New Mexico Geological
Society, American Academy for the Advancement of Science

 4. PUBLICATIONS

Roger Y. Anderson

"Deep-seated Salt Dissolution in the Delaware Basin, Texas and New Mexico," New Mexico Geological Society, Special Publication No. 10, pp. 133-145.

"A Long Geoclimatic Record from the Permian", Journal of Geophysical Research, in press.

"Meromictic Lakes and Varved Lake Sediments in North America", U. S. Geological Survey Circular, in press.
Coauthors: W. E. Dean, J. P. Bradbury, D. Love.

"Geological Data for Borehole WIPP 15", in Basic Data Report for Drillhole WIPP 15 (Waste Isolation Pilot Plant - WIPP), Sandia National Laboratories, Sandia Report, SAND79-0274, pp. 4-23.
Coauthor: S. J. Anderson

"Continuous subaqueous deposition of the Castile Evaporites, Delaware Basin, Texas and New Mexico", Society of Economic Paleontologists and Mineralogists, SEPM Core Workshop, Calgary, Canada, in press.
Coauthor: W. E. Dean

"Petrology and Geochemistry of Fine-grained Sediments Accumulated in Sediment Traps", Abstracts of International Workshop on Fine-grained Sediment (Deep-water Processes and Environments), Geological Association of Canada, (Halifax) in press.
Coauthor: E. B. Nuhfer

"Accidents, Pulses, and Annuation in Lacustrine Systems", in Abstracts and Volume, American Quaternary Association, in press.

F. Donald Bloss

Book: The Spindle Stage: Principles and Practice, Cambridge University Press, 340 p., 1981.

"Mg-Cordierite: Si/Al Ordering, Optical Properties, and Distortion", Contributions to Mineralogy and Petrology, v. 78, 332-336.
Co-author: Th. Armbruster

"Orientation and Effects of Channel H₂O and CO₂ in Cordierite". In press, The American Mineralogist.
Co-author: Th. Armbruster

"Gladstone-Dale Constants for H_2O and CO_2 in Cordierite". In press, Canadian Mineralogist.
Co-author: Th. Armbruster

"Andalusite: Effects of Mn and Fe^{3+} on Optical Properties and Unit Cell". In press, The American Mineralogist.
Co-author: M. Gunter

"Optical Measurements of Anthracene". Acta Crystallographica, January 1982.
Co-author: Maureen M. Julian

Gladstone-Dale Constants for andalusite-kanonaite crystals (in preparation) (submitted to the Canadian Mineralogist).
Co-author: M. Gunter

Douglas G. Brookins

"Primary Uranophane from the Ambrosia Lake Uranium District, Grants Mineral Belt, UNM", Mineralium Deposita, vol. 16, pp. 3-7.

"Eh-pH Diagrams for Elements of Interest at the Oklo Natural Reactor at 25°C, 1 Bar Pressure and 200°C, 1 Bar Pressure," Los Alamos Sci. Lab. Tech. Rpt., 160 pp.

"Tartaric Acid Leaching of Selected Ore Samples, Grants Mineral Belt," Amer. Assoc. Petroleum Geol. Bull., vol. 65, p. 557.
Coauthors: R. S. Della Valle, C. I. Mora

"Distribution of Uranium as a Function of Sediment Particle Size," Amer. Assoc. Petroleum Geol. Bull., vol. 65, p. 566.
Coauthor: C. E. Olsen

"Tertiary Mineralization in part of the Grants Mineral Belt, New Mexico," Amer. Assoc. Petroleum Geol. Bull., vol. 65, p. 556.
Coauthor: R. S. Della Valle

"Geochronologic Studies Near the WIPP Site, Southeastern New Mexico: Summary and Interpretation," Amer. Assoc. Petroleum Geol. Bull., vol. 65, pp. 555-556.

"Alkali and Alkaline Earth Element Studies at Oklo," Third Inter. Sym. Nuclear Waste Mngmt., Plenum Press, vol. 3, pp. 275-282.

"Geochemical Study of a Lamprophyre Dike Near the WIPP Site," Third Inter. Sym. Nuclear Waste Mngmt., Plenum Press, vol. 3, pp. 300-307.

"Geochronologic Studies Near the WIPP Site, Southeastern New Mexico: Summary and Interpretation," N. M. Bur. Mines Min. Res. Spec. Pub. 10, pp. 147-152.

"Geochemistry of a Contact Metamorphosed Zone: Implications for Radwaste Disposal in Crystalline Rocks," Sym. on Uncertainties

Assoc. w. Regulation of Geol. Disposal of High Level Waste, p. 44.

Coauthors: L. H. Cohen, H. A. Wollenberg

"The Bryan-Eldora Stock, Colorado: Application to the Disposal of Radioactive Waste in Crystalline Rocks," Inter. Atomic Energy Agency; sym. on migration in the terrestrial environment of long-lived radionuclides from the nuclear fuel cycle, Prog. w. Abs., p. 8.

Coauthors: L. H. Cohen, H. A. Wollenberg, M. S. Abashian

"Mid-Cenozoic Basaltic Andesites and Alkaline Basalts Along the Zuni Lineament, Southeastern Colorado Plateau," Geol. Soc. Amer. Prog. w. Abs., vol. 13, p. 229.

Coauthors: D. Vaniman, A. W. Laughlin

"Composition and Heat Generation of the Precambrian Crust in New Mexico," Geochem. Jour., vol. 14, pp. 95-99.

Coauthor: K. C. Condie

"Geochemistry of a Contact Metamorphosed Zone: Implications for Radwaste Disposal in Crystalline Rocks," in Sym. on Uncertainties Assoc. w. Reg'n. of Geol. Disposal of High Level Wastes, U. S. Nuc. Reg. Comm., pp. 61-68.

Coauthors: L. H. Cohen, H. A. Wollenberg

"Study of Polyhalite from the WIPP Site, New Mexico, 4th Int. Sym. Sci. Nuc. Wste. Mngmt., Prog. w. Abs., p. 139.

"Uranium-Lead Radiometric Age Determinations of Naturally Occurring U(VI) Minerals: Application to Radwaste Storage," 4th Int. Sym. Sci. Nuc. Wste. Mngmt., Prog. w. Abs., p. 139.

"A Natural Analogue for Storage of Radwaste in Crystalline Rocks," 4th Int. Sym. Sci. Nucl Wste. Mngmt., Prog. w. Abs., p. 129.

Coauthors: M. S. Abashian, L. H. Cohen, H. A. Wollenberg

"Geologic Systems for Long-Term Radioactive Waste Isolation," Lawrence Berkeley Labs. Rpt. 429, (in press).

Coauthors: L. H. Cohen, H. A. Wollenberg, M. S. Abashian, M. Flexser, M. Shea

"Caliche-Cover for Stabilization of Abandoned Uranium Mill Tailings," 4th Sym. on Uranium Mill Tailings Mngmt., pp. 309-318.

"Aqueous Geochemical Interactions Between Ground Water and Uranium Minestopes Backfilling - Grants Mineral Belt, New Mexico: Application of Eh-pH Diagrams," 4th Sym. on Uranium Mill Tailings Mngmt., pp. 389-414.

Coauthors: P. A. Longmire, R. T. Hicks

"Geochemistry of Clay Minerals for Uranium Exploration in the Grants Mineral Belt, New Mexico," Mineralium Deposita, v. 17, p. 37-53.

"Uranium and Thorium Abundances, Whole Rock Chemistry and Trace Element Chemistry, Zuni Mountains, New Mexico," The Mountain Geologist, v. 19, p. 83-90.

"Potassium, Uranium and Thorium Radiogenic Heat Contribution to the Heat Flow in the Precambrian Silicic Rocks of the Zuni and Florida Mountains, New Mexico, USA," Jour. Volcan. Geothermal Res., in press.

"The Bryan-Eldora Stock, Colorado: Application to the Disposal of Radioactive Wastes in Crystalline Rocks," Internat. Atomic Energy Agency Sym. 257-44, p. 775-782.
Coauthors: M. S. Abashian, L. H. Cohen, H. A. Wollenberg

"New K-Ar Ages from the Eldora-Bryan Stock and Idaho Springs Formation, Front Range, Colorado," Isochron/West, p. 17-19.
Coauthor: M. S. Abashian

"U-Pb Ages for U(VI) Hydrosilicates, Grants, New Mexico," Isochron/West, p. 25-27.

"Rb-Sr Isochron Ages of Two Precambrian Igneous Rock Units, Colfax County, New Mexico," Isochron/West, p. 21-24.

"Suitability of Crystalline Rocks for Radwaste Storage: I. Investigations of two Plutons, Colorado," Geol. Soc. Amer. Prog. w. Abs., v. 14, p. 305.
Coauthors: M. S. Abashian, L. H. Cohen, H. A. Wollenberg, A. E. Williams, S. Flexser.

"Suitability of Crystalline Rocks for Radwaste Storage: II. Study of the Idaho Springs Formation, Colorado," Geol. Soc. Amer. Prog. w. Abs., v. 14, p. 301.
Coauthors: M. S. Abashian, L. H. Cohen, H. A. Wollenberg

"The Age of the Fruitland and Kirtland Formations, San Juan Basin, New Mexico," Geol. Soc. Amer. Prog. w. Abs., v. 14, p. 348.
Coauthor: J. K. Rigby

"Rare-Earth Element Geochemical Studies of Hydrothermal Fluorite-Carbonate Deposits, Mineral County, Montana," Geol. Soc. Amer. Prog. w. Abs., v. 14, p. 304-305.
Coauthor: K. M. Emanuel

"Sr Isotope Initial Ratios from Hydrothermal Vein Deposits of Fluorite and Carbonates I: Deposits in Mineral County, Montana," Isochron/West, n. 34, p. 17-18.

"Sr. Isotope Initial Ratios from Hydrothermal Vein Deposits of Fluorite and Carbonates II: Deposits in the Zuni Mountains, New Mexico", Isochron/West, n. 33, p. 15-17.

Coauthor: K. M. Emanuel

"The Sandia Granite, New Mexico: Biotite Metamorphic and Whole Rock Rb-Sr Ages," Isochron/West, n. 33, p. 19-21.

"New K-Ar Ages from the Fruitland and Kirtland Formations (Cretaceous), San Juan Basin, New Mexico", Isochron/West, n. 33, p. 17-19.

Coauthor: J. K. Rigby

"Rb-Sr Geochronological Studies of Samples from Drill Holes GT-1, GT-2, EE-1 and EE-2, Los Alamos Hot Dry Rock Program, Fenton Hill, New Mexico" Jour. Volcanology and Geothermal Research.

Coauthor: A. W. Laughlin

"Geochemistry of the Dakota Formation of Northwestern New Mexico: Relevance to Radioactive Waste Disposal" Nuclear Technology (in press).

"Geologic systems for long-term radioactive waste isolation: Lawrence Berkeley Laboratory Report 429, (1982) 68 p.

Coauthors: L. H. Cohen, H. A. Wollenberg, M. S. Abashian and S. Flexser.

"Geochemistry of clay minerals for uranium exploration in the Grants Mineral Belt, New Mexico": Mineralium Deposita, v. 17, p. 37-53. (1982)

"Suitability of crystalline rocks for radwaste storage: I. Investigation of two plutons, Colorado": Geol. Soc. Amer. Abs. with Prog. v. 14, p. 305.

Coauthors: M. S. Abashian, L. H. Cohen, A. E. Williams, H. A. Wollenberg, and S. Flexser

"Suitability of crystalline rocks for radwaste storage: II. study of the Idaho Springs formation, Colorado": Geol. Soc. Amer. Abs. wi. Prog., v. 14, p. 301.

Coauthors: M. S. Abashian, L. H. Cohen, and H. A. Wollenberg

"Sr isotope initial ratios from hydrothermal vein deposits of fluorite and carbonates II: deposits in the Zuni Mountains, New Mexico": Isochron/West, n. 33, p. 15-17.

Coauthor: K. M. Emanuel

"The Sandia granite, New Mexico - biotite metamorphic and whole rock Rb-Sr ages": Isochron/West, n. 33, p. 19-21.

Coauthor: A. Majumdar

"New K-Ar ages from the Kirtland Formation (Cretaceous), San Juan Basin, New Mexico": Isochron/West, n. 33, p. 17-19.

Coauthor: J. K. Rigby

Books

"Earth Resources, Energy and the Environment," Charles E. Merrill Pub. Co., 209 pp.

"Earth Resources", Chapter 16 in Physical Geology (C. Burchfiel, Ed.), Charles E. Merrill Publishing Company, 1982.

Physical Geology: Charles E. Merrill Pub. Co., Columbus, Ohio, 1982, Coauthors: B. C. Burchfiel, R. J. Foster, E. A. Keller, L. W. Mintz, W. N. Melhorn, H. V. Thurman

"Energy, Earth Resources, and the Environment", Charles E. Merrill Pub. Co., Columbus, Ohio, 1981.

Papers in Press

"Study of polyhalite from the WIPP site, New Mexico": 4th Int. Sym. Sci. Nuc. Wste. Mngmt., (S. V. Topp, Ed.), p. 257-264.

"Uranium-lead radiometric age determinations of naturally occurring U(VI) minerals: application to radwaste storage": ibid., p. 265-272.

"A natural analogue for storage of radwaste in crystalline rocks": ibid., p. 231-238.

"Potassium, uranium and thorium radiogenic heat contribution to the heat flow in the Precambrian silicic rocks of the Zuni and Florida Mountains, New Mexico, USA": Jour. Volcan. Geothermal Res.

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- D. D. Bogard⁺, G. J. Taylor, K. Keil, M. R. Smith, R. A. Schmitt and J. Danon. Impact melting and brecciation of the Cachari eucrite 3.0 Gy ago. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. Danon, M. Christophe Michel-Levy, C. Jehanno, K. Keil⁺, C. B. Gomes, R. B. Scorzelli and I. Souza Azevedo: Awaruite (Ni₃Fe) in the genomict LL chondrite Parambu: Formation

- under high FO_2 . Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. L. Gooding*, K. Keil⁺, T. Fukuoka and R. A. Schmitt:
Correlations between physical and petrological properties of chondrules. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. P. McKinley⁺*, G. J. Taylor and K. Keil: The origin of Apollo 16 dimict breccias. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- G. J. McKinley⁺*, E. R. D. Scott, G. J. Taylor, and K. Keil: A unique type 3 ordinary chondrite containing graphite-magnetite aggregates: Allan Hills A77011. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- A. Okada and K. Keil⁺: Caswellsilverite, NaCrS_2 , a new mineral in the Norton County enstatite achondrite. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- A. E. Rubin*, E. R. D. Scott⁺, G. J. Taylor and K. Keil: The Dimmitt H chondrite regolith breccia and implications for the structure of the H chondrite parent body. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- E. R. D. Scott⁺, G. J. Taylor, P. Maggiore*, K. Keil, S. G. McKinley* and H. Y. McSween, Jr.: Three CO3 chondrites from Antarctica-comparison of carbonaceous and ordinary type 3 chondrites. Meteoritical Society Meeting, Berne, Switzerland August 17-21, 1981.
- A. M. Kudo⁺, S. E. Barker*, K. Keil and M. H. Beeson:
Coherence of major and trace element modelling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise. Meeting of the Amer. Geophys. Union, San Francisco, Calif., Dec., 1981.
- A. E. Rubin⁺*, G. J. Taylor, E. R. D. Scott and K. Keil:
Petrologic insights into the fragmentation history of asteroids. Workshop on "Comparison of meteoritic and lunar breccias", Lunar and Planetary Institute, Houston, Texas, Nov. 9-11, 1981.
- K. Keil⁺: Composition and origin of chondritic breccias. Workshop on "Comparison of meteoritic and lunar breccias", Lunar and Planetary Institute, Houston, Texas, Nov. 8-11, 1981.

Albert M. Kudo

"Mineral Chemistry of basalts from Holes 483 and 483B," Initial Reports, Deep Sea Drilling Project. (in press)

Coauthor: S. E. Barker, K. Keil

"Coherence of major and trace element modeling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise," EOS, Vol. 62, no. 45, p. 1067.

Coauthors: S. E. Barker, K. Keil, M. H. Beeson

Barry S. Kues

"Akanthosuchus langstoni, a new crocodylian from the Nacimiento Formation (Paleocene, Torrejonian) of New Mexico," Journal of Paleontology, Vol. 55 (1981), pp. 340-352.

"Exercise 7 -- Paleontology," Laboratory Manual for Physical Geology, University of New Mexico, (1981), pp. 29-35.

"A large assemblage of a new eurypterid from the Red Tanks Member, Madera Formation (Late Pennsylvanian-Early Permian) of New Mexico," Journal of Paleontology, Vol. 55 (1981), pp. 709-729.

Coauthor: K. K. Kietzke*

"Advances in San Juan Basin Paleontology," (Albuquerque, New Mexico: University of New Mexico Press, 1981), 393 pp.

Coeditors: S. G. Lucas & J. K. Rigby, Jr.

"Introduction," in Advances in San Juan Basin Paleontology, edited by S. G. Lucas, J. K. Rigby, Jr., & B. S. Kues (Albuquerque, New Mexico: University of New Mexico Press, 1981), pp. ix-xi.

Coauthors: S. G. Lucas & J. K. Rigby, Jr.

"Bibliography of New Mexico Paleontology," (Albuquerque, New Mexico: University of New Mexico Press, 1981), 150 pp.

Coauthor: S. A. Northrop

"A large assemblage of a new eurypterid from the Red Tanks Member, Madera Formation (Late Pennsylvanian-Early Permian) of New Mexico," New Mexico Geology, v. 4, (1982) p. 13 (Abstract of 1981 paper).

Coauthor: K. K. Kietzke

"Summary of the paleontological importance of the Fruitland through Nacimiento formations, southwestern San Juan Basin," Technical Report to Sierra Club, (1982), 14 p.

"Comments on the paleontology of Section 32, T. 24 N., R. 13 W. near the Bisti Trading Post Site," Technical Report to Sierra Club, 1982, 2 p.

"The instrumental role of paleontology in the funding and development of a major new natural history museum," Journal of Paleontology, Vol. 56, (1982), p. 839-842.

Coauthors: T. Rowe & R. Cifelli

"Amphiscapha (Amphiscapha) oketoensis, a new gastropod from the Oketo Shale Member, Barneston Limestone (Early Permian) of Kansas," IN PRESS, Journal of Paleontology, Vol. 56.

"Fossils of New Mexico," (Albuquerque, New Mexico: University of New Mexico Press, 1982), 226 pp.

"Pennsylvanian trilobites from the Madera Formation, Cedro Canyon, New Mexico," IN PRESS, New Mexico Geological Society Guidebook, 33rd Field Conference.

"Lexicon of Phanerozoic stratigraphic names used in Albuquerque area," IN PRESS, New Mexico Geological Society Guidebook, 33rd Field Conference.

Coauthors: S. G. Lucas & R. V. Ingersoll.

Kenneth D. Mahrer

"Surface Deformation in a Crustal Setting with a Long Surfaced Non-Uniformity," Tectonophysics, Vol. 76 (1981), pp. 1-11.

"Strike-Slip Faulting in a Bi-Directionally Varying Crust," Bull. Seism. Soc. Am., Vol. 71 (1981), pp. 391-404.

"Strike-Slip Faulting in a Bi-Directionally Varying Crust," EOS, Transactions Am. Geophys. Union, Vol. 61 (1980), p. IIII. Abstract)

"A Geophysical Survey West of Placitas, New Mexico," in press, (1982).

Coauthors: S. Newsome and C. Bradley

L. D. McFadden

"Simulated Calcic-Horizon Development in Alluvial Soils: Geological Society of America Abstracts with Programs, 78th Annual Cordilleran Sectional Meeting, p. 214.

Coauthor: J. C. Tinsley

"Temporal Changes in the Clay Mineralogy of Quaternary Alluvial Soils Forming in a Xeric Climate, Southern California: Seventh Biennial Conference at the American Quaternary Association Program and Abstracts, p. 136.

Coauthor: D. M. Hendricks

"Quantitative Comparison of Soil Development in fluvial terrace deposits in Virginia and California"; for Geological Society of America National meetings, in New Orleans, LA.

Coauthors: M. J. Pavich, J. W. Harden, and H. W. Markewich

"Quaternary Geology, Geomorphology, and Soils of the Tpolta and Cottonwood Drainage Basins, UUI Lease, Northwestern New Mexico".

Coauthors: S. G. Wells, and T. F. Bullard*

"A compartment model for prediction of accumulation of pedogenic calcium carbonate in alluvial soils"; for the Journal of Geological Society of America".

Coauthor: J. C. Tinsley

Papers in Preparation

"Systematic Changes in the Composition of Pedogenic Iron Oxyhydroxides in Alluvial Soils forming in semiarid to xeric climates"; for Quaternary Research.

Coauthors: D. M. Hendricks and W. Helnick.

Stephen G. Wells

"Applications of Geomorphology to Surface Coal-mining Reclamation, Northwestern New Mexico," Environmental Geology and Hydrology in New Mexico, New Mexico Geological Society Special Publication No. 10, p. 69-83.

Coauthor: D. E. Rose

"Geomorphic Effects of the La Mesa Fire, Bandelier National Monument, New Mexico", Transactions of the La Mesa Fire Symposium (Los Alamos National Laboratory Publications in conjunction with National Park Service).

"Evolution of Badland Topography in Southeastern Colorado Plateau, USA", Badland Geomorphology and Pipie Erosion, R. Bryan & A. Yair editors*(Geo-Abstracts Ltd., UEA England).

Coauthor: A. Gutierrez

"Quaternary Evolution of Desert Piedmonts in the Southwestern U.S.", Origin and Evolution of North American Deserts, S. G. Wells editor, Contribution 20 of the Committee on Desert and Arid Zones Research (UNM Press).

"Origin and Evolution of Deserts in the Basin and Range and the Colorado Plateau Provinces of Western North America" The Geological Story of the World's Deserts, T. Smiley editor (INQUA Publication)

Coauthors: T. F. Bullard* and L. N. Smith*

Editorship

Environmental Geology and Hydrology in New Mexico, New Mexico Geological Society Special Publication No. 10, 152 p.

Co-editor: Wayne Lambert

The Origin and Evolution of North American Deserts, Contribution 20 of Committee on Desert and Arid Zones Research, American Association for the Advancement of Science, S. G. Wells editor & symposium arranger, (UNM Press).

Abstracts

"Quaternary Landscape Evolution in the Southeastern Colorado Plateau", Geological Society of America Abstracts with Programs, p. 113, 1981.

Coauthor: L. N. Smith*, T. F. Bullard* & J. D. Schultz.

"Geomorphology of the Chaco Dune Field, Northwestern New Mexico", Geological Society of America Abstracts with Programs, p. 105, 1981.

Coauthor: J. D. Schultz

"Applications of Geomorphology to Surface Coal-mining Reclamation, Northwestern New Mexico", American Association of Petroleum Geologists Bulletin, vol. 65/3, p. 573, 1981.

Coauthor: D. E. Rose

"Evolution of Geothermal Potential of Truth or Consequences Area, New Mexico", American Association of Petroleum Geologists Bulletin, vol. 65/3, p. 564, 1981.

Coauthors: M. Mahoney and G. R. Jiracek

Technical Reports

"Properties and Prediction of Caliche in Alluvial Basins of the Southwestern United States-Applied to Siting and Engineering of the MX System, Final Scientific Report", U.S. Air Force Office of Scientific Research, Contract No. AFOSR 78-3572, 159 pp., 10 plates.

"Geomorphology and Surface Hydrology Applied to Landscape Reclamation in the Strippable Coal Belts of Northwestern New Mexico," Final Report, Energy and Minerals Department, EMD-68R-3111, 523 p.

Lee A. Woodward

"Tectonic framework of Disturbed Belt of West-Central Montana," American Association of Petroleum Geologists Bulletin, Vol. 65, (1981), pp. 291-302.

"Overthrust Belt of Southwestern New Mexico: Comparison with Wyoming-Utah Overthrust Belt," American Association of Petroleum Geologists Bulletin, Vol. 65 (1981), pp. 722-729.

Coauthor: H. R. DuChene

"Preliminary Survey of Tuff Distribution in Esmeralda, Nye, and Lincoln Counties, Nevada," Sandia Laboratories Report 79-1539 (1981), 123 pp.

Coauthors: G. W. Smith*, T. S. Pink*, J. R. Lawrence* and K. Keil

"Overthrust and Disturbed Belt of West-Central Montana", Oil and Gas Journal May (1981), pp. 102-108.

"Hydrocarbon Potential of the Montana Thrust and Fold Belt," World Oil August (1981), pp. 97-105.

"Palynologic Evidence for the Age of the Abiquiu Formation, North-Central New Mexico", Geological Society of America Bulletin Geological Society of America Bulletin, (1981), v. 92, pp. 993-998.

Coauthors: H. R. DuChene and D. W. Englehardt

"Precambrian Metallic Mineralization in New Mexico," New Mexico Geology, Vol. 3, pp. 33-42.

Coauthor: M. S. Fulp*

"Late Precambrian Tillite, Florida Mountains, Southwestern New Mexico," in Earth's Pre-Pleistocene Glacial Record, edited by M. J. Hambrey and W. B. Harland (1981), Cambridge Univ. Press, pp. 749-750.

"Palynological Evidence for Miocene Age of Abiquiu Tuff, North-Central New Mexico," American Association of Petroleum Geologists Bulletin, Vol. 65, (1981), pp. 558 (abstract).

Coauthors: H. R. DuChene and D. W. Englehardt

"Overthrust and Disturbed Belt of West-Central Montana-Implications for Hydrocarbon Exploration," American Association of Petroleum Geologists Bulletin, Vol. 65 (1981), pp. 574 (abstract).

"Structure of Thrust Belt in Southwestern New Mexico: Implications for Hydrocarbon Exploration," American Association of Petroleum Geologists Bulletin, Vol. 65 (1981), pp. 771 (abstract).

Crayton J. Yapp

"Multiple Isotope Effect Probes of Glutamate Decarboxylase," Biochemistry, Vol. 20 (1981); pp. 1476-1481.

Coauthors: M. H. O'Leary and H. Yamada

"A reexamination of cellulose carbon-bound hydrogen D measurements and some factors affecting plant-water D/H relationships", Geochim. Cosmochim. Acta 46, (1982) p. 955-965.

Coauthor: S. Epstein

"Climatic significance of the hydrogen isotope ratios in tree cellulose, Nature 297 (1982) p. 636-639.

Coauthor: S. Epstein

 5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS

Roger Y. Anderson

"Measurement of the Effects of Mt. St. Helens Tephra on Lakes
Using Automated Sediment Traps, National Science
Foundation.

Two Years.....\$64,805.00

"Measurement of Climatic Signature in Lake Sediments Using
Automated Sediment Traps", U. S. Geological Survey
co-project with UNM, employing Geological Field Assistant
(GFA) S. J. Anderson (part time).

"Collection of Tephra in Lakes in Vicinity of Mt. St. Helens,
Washington", U. S. Geological Survey co-project with UNM,
employed GFA S. J. Anderson (part time).

"Collection of Marine Sediments on Pacific Slope Using Automated
Sediment Traps", U. S. Geological Survey.

"Development of Conditional-response Sediment Sampler", no
funding.

F. Donald Bloss

"Optical Properties of Biotites Relative to Oxidation", National
Science Foundation Grant EAR 80-18492.

Expires June 1982\$70,000.00

Douglas G. BrookinsSponsored research

"Poisoned land/inland sea study", Lawrence Livermore National

Laboratory (New Proposal on same topic under review by U.S.D.O.E.)
 Oct. 1, 1980-June 30, 1982\$20,350.00
 "Use of caliche for possible cover for abandoned uranium mill tailings" Sandia National Laboratory (New proposal on same topic under review)
 Oct. 1, 1980-Dec. 31, 1982\$34,500.00
 "Sr isotopic study of New Mexico watersheds", National Science Foundation. With J. Gosz, Dept. Biology
 (FIRST YEAR) \$99,999.00
 June 1, 1981-May 31, 1984 \$290,000.00
 "Natural analogues for radioactive waste studies", Lawrence Berkeley Laboratories
 Oct. 1, 1980-open\$12,000.00
 "Study of U(VI) hydrosilicates, Grants Mineral Belt: application to radwaste studies" UNM Res. Alloc. Comm.
 1980-81 AY\$1,500.00
 "Study of actinides near hypothetically breached radwaste canisters: evaluation of criticality possibilities", Sandia National Laboratories.
 October 1, 1979-Feb. 28, 1981\$52,500.00

Non-sponsored research

Continued study of Oklo natural reactor, Gabon. *, ***
 Continued study of Zuni and Florida Mountains, NM. *, ***
 Continued study of Sandia Mountains, NM; determination of age of formation and age of metamorphism.
 Continued study of diagenesis ages in the San Juan Basin

- for Mesozoic rocks (with R. Hicks, NM EID).
- Continued study of evaporite geochemistry (with SNL personnel) and the Univ. of Oregon).
- Continued study of geochronology of rocks from Alaska (with M. L. Silberman, USGS).
- Continued study of the Precambrian rocks of the Sinai Peninsula (with A. E. Shimron, Israel Geol. Survey).
- Continued study of rocks for hot dry rock geothermal investigations (with A. W. Laughlin, LANL).
- Continued study of ages of mineralization of rocks of the Grants Mineral Belt (with R. S. Della Valle, Phillips Minerals Division).
- Geochronology of Precambrian rocks of north-central NM (with J. A. Grambling, L. A. Woodward, J. F. Callender).
- Hydrothermal vein fluorite-carbonate deposits, western U.S. (with several UNM students).
- Theoretical studies of radioactive waste disposal: Eh-pH diagrams, activity diagrams, dissolution and sorption studies.
- Study of abandoned uranium mine backfilling (with R. Thomson, UNM; P. A. Longmire, NM EID). **
-

Key: * Proposal to be submitted for funding

** Proposal approved for funding by USBM contingent upon

Federal Budget funding.

*** Proposals to NSF submitted but not supported due to lack of funds.

Jonathan F. CallenderReports

The Geology of the Albuquerque Area: A report for an exhibit
on the history of Albuquerque, Albuquerque Museum of Art,
History and Science, City of Albuquerque (1981), 49 p.

Evaluation of Geothermal Potential of Rio Grande Rift and Basin
and Range Province, New Mexico, Final Report: New Mexico
Energy Research and Development Institute and U. S.
Geological Survey (1981), 350 p.

Sponsored Research

Structural Petrology, Metamorphism and Tectonic History of
Precambrian Rocks in the Picuris Range, New Mexico:
National Science Foundation EAR-8018506
(3/15/81-8/31/84)\$84,083

Unsponsored Research

Structural evolution of the Rio Grande rift. Precambrian geology
of central New Mexico Problems on nuclear waste disposal.

Papers in Preparation

Transposition layering in New Mexico: Problems in stratigraphic
interpretation: New Mexico Geological Society Guidebook 32.
"Suspect terrane" in central New Mexico: New Mexico Geological
Society Guidebook 32.

Coauthor: V. C. Kelley

The Rio Grande rift and continental rifting: American Scientist.
Structural analysis of a Precambrian "unconformity on the
Manzano Mountains, New Mexico: Geology.

Coauthor: W. Blount

Books in preparation

Editor, New Mexico Geological Society Guidebook 33.

Coeditors: S. G. Wells and J. A. Grambling, *Geology of New Mexico*: UNM Press.

Wolfgang E. Elston

Sponsored Research

- "Application of volcanology to lunar and planetary geology",
 NASA Grant NGR 32-004-062 Supplement 16.
 May 1, 1981 to April 30, 1982\$31,000.
- "Cenozoic volcanism and extensional orogeny in the New Mexico
 segment of the Basin and Range province",
 NSF Grant EAR 80-07836
 September 1, 1980 - February 28, 1983.....\$84,872.
- "Assessment of geothermal potential of southwestern New Mexico",
 N.M. Energy Research and Development Program Grant
 68-4-2102
 January 1, 1980 to December 31, 1980, extended to
 February 28, 1982..... \$28,810.
- "Regional Assessment of intermediate temperature geothermal
 resources of southwestern New Mexico", U. S. Geological
 Survey Extramural Geothermal Program Grant 14-08-0001-6630
 September 1, 1979 to August 31, 1980, extended to
 December 31, 1981.....\$36,750.
- "Application of volcanology to lunar and planetary geology";
 NASA Grant NGR 32-004-062 Supplement 17.
 May 1, 1982 to April 30, 1983\$32,002-req.

Grant from Tenneco Oil Company for geologic investigations of ore deposits in Sierra Fra Cristobal, Socorro and Sierra Counties, New Mexico.....\$ 6,000.

Travel grant, Caswell Silver Foundation, to attend Conference on Zoning in Volcanic and Subvolcanic Ore Deposits: Implications for Exploration, Crystal Bay, Nevada \$ 500.

Proposal Submitted

"Application of volcanology to lunar and planetary geology";
NASA Grant NGR 32-004-062 Supplement 17.
May 1, 1982 to April 30, 1983.....\$32,002
requested.

Rodney C. Ewing

Sponsored Research

"Geologic Materials: Implications for Radioactive Waste Disposal,"
Battelle PNL.
Oct. 1, 1980-Sept. 30, 1981\$40,000

"Radiation Damage in Crystalline Materials," Sandia National
Laboratories.
October 1, 1980-September 30, 1981.....\$20,500

Un-sponsored Research

Studies on the genesis of pegmatites, particularly the Harding
Pegmatite and those of the Petaca District, New Mexico.
Crystallography and crystal chemistry of Nb-Ta-Ti oxides,
particularly alteration effects of metamict varieties.
Leachability of thorite and zircon as a function of radiation
damage and implications for the long-term stability of
crystalline waste forms.

Application of EXAFS spectroscopy to mineralogical problems.

Research Proposals Submitted

"Alteration of Metamict, Complex Ti-Nb-Ta Oxides," to NSF:

.....\$ 61,256

"Radiation Damage Effects and Annealings Kinetics in Crystalline
Phosphates, Silicates and Complex Nb-Ta-Ti Oxides," to
DOE-BES:

.....\$356,440

"Alteration of Metamict, Complex Ti-Nb-Ta Oxides," to
DOE-Waste and Fuel Cycle Technology Office.

.....\$61,256

"Radiation Damage Effects and Annealing Kinetics in Crystalline
Phosphates, Silicates and Complex Nb-Ta-Ti Oxides," to
DOE-Waste and Fuel Cycle Technology Office:

..... \$356,440

"Radiation Effects in Crystalline Nuclear Waste Forms: Scientific
Basis for Long Term Prediction of Performance" to the NRC
in collaboration with Oak Ridge National Laboratory:

.....\$627,000

"The Metamict State and Alteration of Complex Ti-Nb-Ta Oxides,"
to the NSF in collaboration with Boeing Research:

..... \$210,000

Papers in Preparation

The crystal structure of Iimoriite - $(Y,REE)_2SiO_4CO_3$ for The
American Mineralogists.

Rare Earth, Y, U, Th, Zr and Hf Minerals in Granitic Pegmatites
an invited chapter for the Mineralogical Associate of Canada
Handbook on Granitic Pegmatites in Science and Industry.

"Leachability of Natural Zircon as a Function of Alpha Dose," For the Fifth International Symposium on the Scientific Basis for Radioactive Waste Management.

"Investigation of Titanium in Metamict, Nb-Ta-Ti Oxides Using the Extended X-Ray Absorption Fine Structure Technique" For the Fifth International Symposium on the Scientific Basis for Radioactive Waste Management.

"High Resolution Study of the Metamict State" for the International Mineralogical Association Meeting in Varna, Bulgaria.

Stephen P. Huestis

"IDB2- a FORTRAN program for computing extremal bounds in gravity data interpretation," submitted to Geophysics.

Coauthor: M. E. Ander

Un-sponsored Research:

Inversion of heat flow data with variable thermal conductivity;
optimization theory applied to geophysical inverse problems.
Treatment of variable thermal conductivity in heat flow inverse problems.

Jeffrey A. Grambling

Sponsored research

"Iron-magnesium partitioning between staurolite and chloritoid in metamorphic rocks," Sandia National Laboratories.

Oct. 1, 1980-Sept. 30, 1981\$20,000

"Iron-magnesium partitioning between staurolite and chloritoid in metamorphic rocks," Sandia National Laboratories.

Oct. 1, 1981-Sept. 30, 1982\$21,000

- "Precambrian geology of the Picuris and Rio Mora areas, New Mexico: stratigraphic relations and potential for economic mineralization," Anaconda Copper Co.
June 1, 1981-May 30, 1982\$ 12,560
- "Petrology of piemontite and thulite gneisses, Truchas Peak, New Mexico," UNM Research Allocations Committee.
March 1, 1981-May 30, 1982\$908
- "Geology display at the New Mexico State Fair," UNM Foundation.
May 1, 1981-Sept. 30, 1981\$2,000
- "Effects of minor elements on metamorphic phase relations," National Science Foundation.
Jan. 1, 1982-Dec. 31, 1982\$28,719

Proposals Submitted

- "Zinc and manganese in staurolite and garnet, Sangre de Cristo Mountains, New Mexico: a potential indicator of nearby sulfide deposits," Exxon Minerals Branch, Exxon Production Research.
Proposal not funded \$33,774
- "Geochronology of Precambrian metamorphic rocks in the Pecos Wilderness near Gascon, New Mexico," New Mexico Bureau of Mines and Mineral Resources.
Proposal pending\$2,972
- "Precambrian geology of the Gascon-Mora area, New Mexico," New Mexico Bureau of Mines and Mineral Resources.
June 1, 1981-Aug. 31, 1981 (Proposal withdrawn)
.....\$5,472

Un-sponsored research

Metamorphism in the presence of fluid compositional gradients in pelitic schist, Truchas Peaks, New Mexico.

Deformation and metamorphism of pelitic, volcanic and ultramafic Precambrian rocks, Salida, Colorado.

Papers in preparation

"Reversals in Fe-Mg partitioning between chloritoid and staurolite."

"Metamorphism in the presence of fluid compositional gradients in pelitic schist".

"Origin of oscillatory zoning in grandite garnets from contact-metamorphosed calc-silicates."

Coauthor: P. Maggiore*

"Chromium-rich quartzite and schist in northern New Mexico."

Coauthor: D. B. Coddling*

"Geologic relationships in a Proterozoic quartzite-greenstone terrane, northern New Mexico, USA."

Coauthor: D. B. Coddling*

Raymond V. IngersollSponsored Research

"Sandstone petrofacies and provenance of the Santa Fe Group and tectonic evolution of the Rio Grande rift, New Mexico", American Chemical Society, Petroleum Research Fund.

1 June 1978-31 Oct. 1981 \$ 10,000

Un-sponsored Research (Papers in Preparation)

Petrofacies and provenance of the Great Valley Group, northern and central California: Geological Society of America Bulletin.

The Great Valley Group (new nomenclature), northern and central California: American Association of Petroleum Geologists Bulletin.

Coauthors: E. I. Rich and W. R. Dickinson

Triple-junction instability as cause for Neogene extension and fragmentation of western United States: Geology.

Sandstone point-counting techniques: Journal of Sedimentary Petrology. (with several student coauthors)

Petrology and provenance of Neogene sand from the Indus fan, Indian Ocean (DSDP leg 23): Journal of Sedimentary Petrology.

Coauthor: C. A. Suczek

Petrology and provenance of selected sandstones of the Flysch and Molasse of the Swiss Alps: Journal of Sedimentary Petrology.

Coauthor: C. F. Mansfield

Research-Grant Proposals Submitted

"Sedimentary petrology of DSDP/IPOD cores of forearcs", National Science Foundation.

1 June 1981-30 Nov. 1982 \$ 72,098

RESUBMITTED FOR

1 Oct. 1981-30 Sept. 1983 \$ 60,838

"Synthesis of active-margin drilling transects", National Science Foundation.

1 July 1981-31 Dec. 1982 \$ 52,113

RESUBMITTED FOR

1 Nov. 1981-31 Oct. 1983 \$ 53,900

Klaus Keil

Sponsored Research

Research grant from NASA L. B. Johnson Space Center,
Houston, Texas, entitled "Mineralogy, petrology and
chemistry of breccias, mare basalts and cores".

Feb. 1, 1978-Jan. 31, 1981\$180,996.00

Research grant from NASA Headquarters, Washington, D.C.,
entitled "The formation and evolution of stony meteorites".

March 1, 1978-Feb. 28, 1981\$145,597.00

Research grant from NASA Headquarters, Washington, D.C.,
entitled "The formation and evolution of stony meteorites".

March 1, 1979-Feb. 28, 1981\$102,390.00

Research grant from NASA Headquarters, Washington, D.C.,
entitled "Chemical weathering on Mars: Theoretical and
terrestrial analog studies of possible processes and
products".

March 1, 1979-Feb. 28, 1981\$100,839.00

Research grant from NASA L. B. Johnson Space Center,
Houston, Texas, entitled "Origin and evolution of lunar
crust, mare basalts and regolith".

Feb. 1, 1979-Jan 31, 1981\$121,995.00

Supplement.....\$2,500.00

Research Grant from NASA Headquarters, Washington,
 D. C., entitled "The formation and evolution of stone
 meteorite parent bodies".
 March 1, 1980-Feb. 28, 1981 \$85,741.00

Research Grant from NASA L. B. Johnson Space Center,
 Houston, Texas, entitled "Origin and evolution of the lunar
 crust and mare basalts".
 Feb. 1, 1980-Jan. 31, 1981 \$99,910.00

Research grant from NASA L. B. Johnson Space Center,
 Houston, Texas, entitled "Origin and evolution of the lunar
 crust".
 Feb. 1, 1981-Jan. 31, 1982 \$104,150.00

Research grant from NASA Headquarters, Washington, D.C.,
 entitled "The formation and evolution of stony meteorites".
 March 1, 1981-Feb. 28, 1982 \$94,249.00

Research grant from NASA Headquarters, Washington, D.C.,
 entitled "Chemical weathering on Mars: Theoretical and
 terrestrial analog studies of possible processes and
 products".
 March 1, 1981-Sept. 30, 1981 \$30,051.00

Research grant from NASA Headquarters, Washington, D.C.,
 entitled "Origin of clay-bearing soil on planetary surfaces:
 Hydrothermal alteration of impact melt rocks and breccias".
 Oct. 1, 1981-Sept. 30, 1982 \$56,782.00

Research contract with Sandia National Laboratories,

Albuquerque, N.M., entitled "Potential of silicic volcanic tuff for the disposal of high-level nuclear waste".

Oct. 1, 1980-Sept. 30, 1981\$29,909.00

Research contract with Sandia National Laboratories,

Albuquerque, N.M. entitled "Literature search, Nevada Test Site".

Jan. 15, 1981-June 30, 1981\$7,119.00

Research contract with Sandia National Laboratories,

Albuquerque, N.M. entitled "Silicic volcanic tuff at Nevada Test Site: Geological support of physical properties measurements".

Oct. 1, 1981-Sept. 30, 1982\$30,139.00

Research grant from NASA L. B. Johnson Space Center,

Houston, Texas, entitled "Origin and evolution of the lunar crust".

Feb. 1, 1982-Jan. 31, 1983\$97,995.00

Research grant from NASA Headquarters, Washington, D. C.

entitled "The formation and evolution of stony meteorites".

March 1, 1982-Feb. 28, 1983\$107,988.00

Research Proposals Submitted

Research equipment grant from the National Science

Foundation entitled "Parital funding of electron microprobe
X-ray analyzer".

(funding assured orally, to be confirmed in writing)

.....\$180,000.00

Albert M. Kudo

Research

Work on Research Allocations Committee Grant of \$1572:

Differentiation of High Potassium Shallow Intrusives,
Beartooth Butte QuadrANGLE, Absaroka Mountains, Wyoming.

Papers in Preparation or in Review

"Petrogenesis of the Crandall Ring-dike Complex and East

Hurricane Mesa Intrusion, Absaroka Mountains, northwestern
Wyoming"

Coauthor: D. E. Broxton

"Geochemical Modelling of Basalts from DSDP Leg 65, East

Pacific Rise, Gulf of California: Evidence for fractional
crystallization".

Coauthors: S. E. Barker, K. Keil, and M. H. Beeson

"Timing of the Heart Mountain Detachment Fault,

Northwestern Wyoming."

Coauthors: B. Harvey, C. Naeser, W. Pierce

"Petrology and Geochemistry of the Basalts from the T. or

C. area, New Mexico."

Coauthor: R. Warren

Barry S. KuesSponsored Research

"Compilation of New Mexico Paleontology Locality Information,"

New Mexico Natural Resources Department

May 1-June 30, 1981\$2,000

(Completed)

"Gastropods of the Flechado Formation (Pennsylvanian) near Taos,

New Mexico," UNM Research Allocations Committee

July 1, 1981-June 30, 1982\$700

Un-sponsored Research

"An estuarine fossil assemblage from the Fruitland Formation (Late

Cretaceous) of northwestern New Mexico"

Papers in Preparation

"The fauna and paleoecology of the Oketo Member, Barneston

Limestone (Lower Permian) of Kansas and Nebraska"

"Invertebrate fauna of the uppermost Pennsylvanian Red Tanks

Member, Madera Formation, in central New Mexico, Part

1--Gastropods and Scaphopods"

"Pennsylvanian trilobites from the Madera Formation, Cedro

Canyon, New Mexico"

"Associated nautiloid phragmocones and aptychi from the

Pennsylvanian Madera Formation, Cedro Canyon, New Mexico"

Books in Preparation

"Annotated catalogue of New Mexico fossils"

Coauthor: S. A. Northrop

Kenneth D. MahrerSponsored Research

"Modeling Surface Deformation from a Buried Crack in

Heterogeneous Crust," American Chemical Society, Petroleum
Research Fund.

Sept. 1982-Sept. 1984\$10,000.00

"A Geophysical Survey West of Placitas, New Mexico," Research
Allocation Committee (RAC)

Un-sponsored Research (in progress)

"Geophysical Study in the Placitas Quadrangle West of the Sandia
Mountains."

"On Using Edge Dislocations in Crustal Deformation Modeling"

Project: Investigating sediments and pediments in Tijeras
Canyon.

Paper in Preparation

"Geomagnetic Anomalies Associated with the Geomorphology in the
Placitas Quadrangle West of the Sandia Mountains."

Proposals submitted

"The Effect of Earth Layering on Subsurface Crack Dynamics,"
Sandia-University Research Programs (SURP).

"Modeling Surface Deformation from a Buried Crack in a
Heterogeneous Crust," American Chemical Society, Petroleum
Research.

"Modeling Surface Deformation from Subsurface Crack Growth in
Heterogeneous Crust" SURP.

"Gravity & Magnetism of the Rio Grande Rift in the vicinity of
Elephant Butte Reservoir, Sierra County, New Mexico,"
Sigma Xi

Coauthor: B. Honea

"Landform Effects on the Local Geomagnetic Field Northwest of the Sandia Mountains, New Mexico", Sigma Xi

Coauthor: S. Newsome

New Course Creation

Working with Dr. L. Teufel (Sandia Labs and Adjunct UNM Professor

in Geology) creating new Earthquake Prediction course.

Leslie D. McFadden

Research Proposals Submitted

"Geomorphology, Quaternary Geology, and Soils of the Tpotla-Cottonwood Wash Area Applied to Archeological sites of the UII," Office of Contract Archeology.

.....\$ 3,000.00

"A proposal to establish a new laboratory for the Quaternary Studies Program in the department of geology, to the University of New Mexico Foundation, Inc.

..... \$35,480.00

Co-author: S. G. Wells

"Soils-geomorphological studies of Quaternary Surficial Deposits in the Mojave Desert, Southern California," to the United States Geological Survey.....\$18,000.00

"Development of a Soils Chronosequence for a Suite of Fluvial and Eolian Deposits in Northwestern New Mexico," funded by the Research Allocations Committee of the University of New Mexico .

.....\$1,930.00

Un-sponsored Research

Studies on development of calcic horizons in arid and semiarid climates as a function of soil age and climate.

Papers in Preparation

"Systematic Changes in the Composition of Pedogenic Iron Oxyhydroxides in Alluvial Soils forming in semiarid to xeric climates, for Quaternary Research,"

"Simulated Calcic-Horizon Development in Alluvial Soils," an invited paper and article for the symposium, Surficial Deposits of the Southwestern United States, and a subsequent special publication of the Geological Society of America.

"Late Quaternary Pedogenesis and Alluvial Chronologies of the Los Angeles Basin and San Gabriel Mountains Areas, Southern California," a guide for the Geological Society of America, Cordilleran Section sponsored fieldtrip.

"Compositional changes in pedogenic iron oxyhydroxides as a function of time and climate in alluvial soils in southern California," for Quaternary Research.

"Clay mineral paragenesis in alluvial soils chronosequences in southern California," for Quaternary Research.

Submitted for Publication, or in press

"Quantitative Comparison of Soil Development from Virginia and California; for Geological Society of America National meetings, in New Orleans, LA.

Coauthors: M. J. Pavich, J. W. Harden and H. W.,
Markewich

"Quaternary Geology, Geomorphology, and Soils of the Tpolta and Cottonwood Drainage Basins, UUI Lease, Northwestern New Mexico".

Coauthors: S. G. Wells and T. F. Bullard

"A Compartment Model for prediction of accumulation of pedogenic calcium carbonate in alluvial soils, for the Journal of Geological Society of America."

Coauthor: J. C. Tinsley

Stephen G. WellsSponsored Research

"Geomorphic Criteria for Selecting Stable Uranium Tailings Disposal Areas, 1981-82 (Phase I)," New Mexico Energy and Minerals Department, with Dr. T. Gardner, Penn State University.

.....\$ 54,917

Pending

"Proposal to Establish a New Laboratory for the Quaternary

Studies Program in the Geology Dept.", UNM Foundation,
with L. McFadden.

.....\$ 35,480

Un-sponsored Research

Geomorphology and hydrology of Gypsum Plain, Eddy Co., New
Mexico.

Quaternary geology and geomorphology of the southeastern
Colorado Plateau.

Geomorphology and sedimentology of fluviokarst systems in
Central Kentucky.

Papers in Preparation

"Geomorphology and Quaternary History of the Chaco Dune Field,
Northwestern New Mexico", to be submitted to Geological
Society of America Bulletin.

Coauthors: J. D. Schultz and T. F. Bullard*

"Quaternary Landscapes and Deposits of the Chaco River Region,
Southeastern Colorado Plateau" to be in Geological Society of
America Special Paper or Monograph on Surficial Deposits of
the Southwestern U.S.A., D. Weide and D. Hoover editors
(INVITED).

Coauthors: L. N. Smith* and T. F. Bullard*

Lee A. Woodward

Research in Progress

- a. Geology of the Nacimiento Mountains and adjacent areas,
New Mexico.

b. Geology of Western Overthrust Belt.

Research Proposal

Geology of Nacimiento Mountains and Adjacent San

Juan Basin, for \$4,000 submitted to New Mexico Bureau of
Mines and Mineral Resources. Favorably reviewed but not
funded due to fiscal problems at New Mexico Bureau of
Mines.....\$ 4,000

Crayton J. YappSponsored Research

"Investigation of Stable Isotope Hydrology of the Upper Rio
Grande Drainage Basin"; SURP funding

Oct. 1, 1980-Sept. 30, 1982\$ 36,800

"Investigation of the link between climate and river hydrology
using Holocene tree cellulose D/H ratios", NSF.

July, 1982-June 1984\$ 93,067

"Investigation of the stable isotope hydrology of the Upper Rio
Grande Drainage Basin-II," Sandia National Laboratories

.....\$12,000

Papers in Presentation

"A re-examination of cellulose carbon-bound hydrogen D
measurements and some factors affecting plant-water D/H
relationships, submitted to Geochim. Cosmochim. Acta.

Coauthor: S. Epstein

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

Roger Y. Anderson

American Association of Petroleum Geologists, Annual Meeting, San Francisco.

"Character and Timing of Rapid Environmental and Climatic Changes", (INVITED) AMQUA, Seattle.

"Spectral Analysis of a 260,000 year geoclimatic record in Permian Varves", in The Absolute and Radiocarbon Chronology of Varves, Ice-Cores, and Tree-rings, University of London, Warburg Institute, International Geological Correlation Programme IGCP No. 158, 1981. Paper read by Rhodes Fairbridge.

Member, Geological Society of America; AAAS.

F. Donald Bloss

"Synthetic cordierite: X-ray and optical properties" (with Th. Ambruster), abstract in 1981 G.S.A. Abstracts with Programs, p. 411.

Douglas G. Brookins

Fourth International Symposium on the Scientific Basis for Nuclear Waste Management (Boston, MA; Nov. 1981).

- i. Associate Editor for Proceedings Volume 4.
- ii. Session co-chairman
- iii. Named Program Chairman for 1982 Fall Meeting (6th International Symposium).

Fourth National Symposium on Uranium Mill Tailings (Fort Collins, CO; Oct., 1981).

Rocky Mountain Section of the Geological Society of America
(Logan, UT; May, 1981).

U.S.D.O.E. Low Level Radioactive Waste Program Review
Committee

- i. Los Angeles, CA (March, 1981)
- ii. Sun Valley, ID (July, 1981)

U.S. Nuclear Regulatory Commission sponsored meeting on
Symposium on Uncertainties Associated with Regulation of the
Geologic Disposal of High Level Waste (Gatlinburg, TN;
March, 1981)

Symposium on migration in the Terrestrial Environment of
Long-Lived Radionuclides (sponsored by: International
Atomic Energy Agency (Symn. 244), Nuclear Energy Agency
(Europe), and OECD); in Knoxville, TN; July 1981.

Rocky Mountain Section - American Association of Petroleum
Geologists (Albuquerque, NM; April, 1981).

Papers Presented

"Tartaric Acid Leaching of Selected Ore Samples, Grants Mineral
Belt," Amer. Assoc. Petroleum Geol. Bull., vol. 65 (1981),
557 pp.

Coauthors: R. S. Della Valle, C. I. Mora

"Distribution of Uranium as a Function of Sediment Particle Size,"
Amer. Assoc. Petroleum Geol. Bull., vol. 65 (1981), 556 pp.

Coauthor: R. S. Della Valle

"Tertiary Mineralization in Part of the Grants Mineral Belts, NM,"
Amer. Assoc. Petroleum Geol. Bull., Vol. 65 (1981), 556 pp.
Coauthor: R. S. Della Valle

"Geochronologic Studies Near the WIPP Site, Southeastern New
Mexico: Summary and Interpretation," Amer. Assoc.
Petroleum Geol. Bull., vol. 65 (1981), pp. 555-556.

"Geochemistry of a Contact Metamorphosed Zone: Implications for
Radwaste Disposal in Crystalline Rocks," Sym. on
Uncertainties Assoc. w. Regulation of Geol. Disposal of High
Level Waste, (1981), 44 pp.
Coauthors: L. H. Cohen, H. A. Wollenberg

"The Bryan-Eldora Stock, Colorado: Application to the Disposal of
Radioactive Waste in Crystalline Rocks," Inter. Atomic
Energy Agency; sym. on migration in the terrestrial
environment of long-lived radionuclides from the nuclear fuel
cycle, Prog. w. Abs., (1981), 8 pp.
Coauthors: L. H. Cohen, H. A. Wollenberg, M. S. Abashian

"Study of Polyhalite from the WIPP Site, New Mexico," 4th Int.
Sym. Sci. Nuc. Wste. Mngmt., Prog. w. Abs., (1981), 139
pp.

"Uranium-Lead Radiometric Age Determinations of Naturally
Occurring U(VI) Minerals: Application to Radwaste Storage,"

4th Int. Sym. Sci. Nuc. Wste. Mngmt., Prog. w. Abs.,
(1981), 139 pp.

"A Natural Analogue for Storage of Radwaste in Crystalline
Rocks," 4th Int. Sym. Sci. Nuc. Wste. Mngmt., Prog. w.
Abs., (1981), 129 pp.

Coauthors: M. S. Abashian, L. H. Cohen, H. A. Wollenberg

"Caliche-Cover for Stabilization of Abandoned Uranium Mill
Tailings," 4th Sym. on Uranium Mill Tailings Mngmt.,
(1981), 309-318 pp.

"Aqueous Geochemical Interactions Between Ground Water and
Uranium Minestope Backfilling - Grants Mineral Belt, New
Mexico: Application of Eh-pH Diagrams," 4th Sym. on
Uranium Mill Tailings Mngmt., (1981), pp. 389-414.

Co-Executive Editor of Uranium (Sci. Journal; Elsevier Pub.
Co.).

Joined International Association for the Study of Clays.

Annual Meeting of the Rocky Mountain Section of The Geological
Society of America (Bozeman, Montana; May 7-8):

"Suitability of crystalline rocks for radwaste storage I.
investigation of two plutons, Colorado"

"Suitability of crystalline rocks for radwaste storage, II.
study of the Idaho Springs formation, Colorado"

"The age of the Fruitland and Kirtland formations, San Juan
Basin, New Mexico" (co-author)

"Rare earth element geochemical studies of hydrothermal
 fluorite-carbonate deposits, Mineral County, Montana"
 Annual Meeting of the American Chemical Society (Las Vegas,
 Nevada; Mar. 29-Apr. 2)"Geochemical studies at the WIPP
 site, New Mexico"
 Annual Meeting of the American Nuclear Society (Los Angeles,
 California; June 7-11) "Low level radwaste disposal in
 poisoned land/inland seas"

Jonathan F. Callender

Elected to Association of Earth Science Editors
 Managing Editor, New Mexico Geological Society
 Science Editor, New Mexico Geological Society Guidebook 32
 Technical Editor, Geotectonics, American Geophysical Union and
 Geological Society of America
 Project Correspondent, U.S. Geodynamics Committee
 Blue Line Committee, Association of Earth Science Editors
 Field trip chairman, America Association of Petroleum Geologists,
 Rocky Mountain section.
 Secretary, UNM Chapter, Sigma Xi.

Wolfgang E. Elston

Attended NASA Planetary Geology Principal Investigators
 Conference, Louisiana State University, Baton Rouge,
 Louisiana, January 6-8, 1981. Read paper on "Vertical
 structure and erosion rates of pahoehoe basalt flows
 (co-authors: J. C. Aubele and L. S. Crumpler).

Attended annual meeting, Cordilleran Section, Geological Society of America, Hermosillo, Sonora, Mexico, March 25-27, 1981. Read paper on "Mid-Tertiary volcanic rocks of Hidalgo County, New Mexico, link between Mexican and U. S. volcanic fields (co-authors: E. E. Erb and E. G. Deal).

Invited participant in Symposium on Geology and Mineral Resources of the Sierra Madre Occidental, Mexico.

Attended annual meeting, New Mexico Section, American Institute of Professional Geologists, Albuquerque, April 14, 1981.

Attended 17th Forum on the Geology of Industrial Minerals, Albuquerque, May 12-15, 1981.

Participant, Gordon Research Conference on Inorganic Geochemistry-Geochemistry of Hydrothermal Ore Deposits, Colby-Sawyer College, New London, New Hampshire, August 17-21, 1981.

Invited Participant, Conference on Zoning in Volcanic and Subvolcanic Ore Deposits: Implications for Exploration, Crystal Bay, Nevada, October 5-7, 1981. Read paper on "Ore deposits related to mid-Tertiary volcanic centers, New Mexico.

Elected Secretary-Treasurer (1982) New Mexico Chapter, American Institute of Professional Geologists

Member of Committee for the Geologic Map of New Mexico, New Mexico Geological Society.

Rodney C. Ewing

Professional Presentation

"The Harding Pegmatite: A Summary of Recent Research".

Invited presentation to the joint Mineralogical Society of America and Friends of Mineralogy Symposium on the Mineralogy of Pegmatites, Tucson, February 15-16.

"Radiation Damage in Crystalline Materials: A Summary". An invited presentation for a symposium on radioactive waste forms sponsored by the American Physical Society, Phoenix, Arizona, March 13-20.

"High Resolution Study of the Metamict State in Zircon". A paper presented at the Annual Meeting of the Electron Microscopy Society of America, Atlanta, Georgia, August 10-14 (given by T. J. Headley).

"Zirconolites from Sri Lanka, South Africa and Brazil". A paper presented at the Fourth International Symposium on the Scientific Basis for Nuclear Waste Management of the Materials Research Society, Boston, November 16-19.

"Radiation Effects in Geologic Materials". An invited paper for the Third Argonne Workshop on Basic Problems in Nuclear Waste Management, Argonne National Laboratory, Argonne, Illinois, October 1-2 (Prepared by Rodney C. Ewing, given by R. F. Haaker).

Activities in Professional Societies:

President, New Mexico Geological Society

Associate Editor of The American Mineralogist

Program committee member of the Fifth International Symposium on the Scientific Basis for Nuclear Waste Management sponsored by the Materials Research Society, Berlin, Federal Republic of Germany.

Member of the Alternative Waste Form Peer Review Panel for the
Department of Energy (1979-1981).

Stephen P. Huestis

"Structural relationship between a northeast-trending Precambrian shear system and a mafic intrusion beneath the Lucero uplift, New Mexico," paper presented at Fall 1981 meeting of American Geophysical Union.

Coauthor: M. E. Ander

Invited participant, U.S.G.S. Geomagnetic Workshop, April 13-15, 1982 - Golden, Colorado. "Inferences about the source of marine magnetic anomalies: coping with non-uniqueness".

"The heat flow inverse problem", talk at Scripps Inst. of Oceanography, May 28, 1982.

Jeffrey A. Grambling

"Precambrian geology of the Rio Mora area, north-central New Mexico: refolded isoclinal folds and the nature of the Vadito-Ortega contact," to Geological Society of America, Cordilleran Section, Hermosillo, Sonora, Mexico, March 27, 1981.

"Reversals in partitioning of Fe and Mg between coexisting staurolite and chloritoid," to Geological Society of America, Annual Meeting, Cincinnati, Ohio, November 5, 1981.

"Regional gradients in the composition of metamorphic fluids in pelitic schist", March 5, 1982, SMU, Dallas, Texas.

Raymond V. Ingersoll

"Recognition of shelf-slope break along tectonically active,

ancient continental margins". Invited presentation at the annual meeting of the American Association of Petroleum Geologists and the Society of Economic Paleontologists and Mineralogists, San Francisco, 2 June 1981.

"Triple-junction instability as cause for late Cenozoic extension and fragmentation of western United States". Presentation at the annual meeting of the Geological Society of America, Cincinnati, 2 Nov. 1981

Coconvener of symposium on "Tertiary continental deposits of northern New Mexico", Rocky Mountain Section, Society of Economic Paleontologists and Mineralogists, Albuquerque, April 13, 1981.

Chairperson, Best-paper-award committee, Rocky Mountain Sections, AAPG-SEPM, Albuquerque, April 1981.

Attended Rocky Mountain Sections, AAPG-SEPM annual meeting, Albuquerque, 12-15 April 1981.

Associate Editor, December issue, Geological Society of America Bulletin, v. 92.

Campus Representative, Society of Economic Paleontologists and Mineralogists.

Attended Geological Society of America annual meeting, Cincinnati, 2-5 Nov. 1981.

Leader, AAPG Fieldtrip 1, Reno - San Francisco, 29-31 May 1981.

Attended annual meeting of the AAPG-SEPM, San Francisco, 1-3 June 1981.

Leader, SEPM Fieldtrip 4, San Francisco, 4-5 June 1981.

Attended annual fieldtrip of the New Mexico Geological Society to the western slope of Colorado, 8-10 October 1981.

Member, New Mexico Geological Society Scholarship Committee.

Invited speaker, Geological Society of America Penrose Conference
on the Ouachita Orogeny, Arkadelphia, Arkansas, May 22-28
1982.

Coconvener of symposium on "Cenozoic nonmarine deposits of
western USA", Pacific Section, Society of Economic
Paleontologists and Mineralogists, Anaheim, CA, April 16
1982.

Attended Pacific Sections, AAPG-SEPM-SEG annual meeting,
Anaheim, California, April 15-16, 1982.

Attended Pacific Sections, SEPM Field trip to the Ridge Basin,
California.

Klaus Keil

Offices held

Member, Program Committee, Lunar and Planetary Science
Conference.

Convener and organizer, one-day Symposium on "Geological
aspects of high-level nuclear waste disposal in igneous
rocks, to be held in conjunction with the Geological Society
Meeting, Rocky Mountain Section, Bozeman, Montana, May,
1982.

Member, Advisory Committee on Comparative Planetology,
International Union of Geological Sciences.

Chairman, Session on "Parent bodies", Meteoritical Society
Meeting, Berne, Switzerland, August 17-21, 1981.

Associate Editor Journal of Geophysical Research.

Attended Meteoritical Society Meeting Berne, Switzerland, chaired session, presented 3 papers and co-authored 6 papers. August 17-21, 1981.

Presentations and coauthorships at professional society meetings.

(speaker⁺, student author*).

- C. C. Allen⁺ and K. Keil: Hydrothermal alteration of melt rocks in impact craters. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- D. D. Bogard⁺, G. J. Taylor, K. Keil, M. R. Smith, R. A. Schmitt and J. Danon: Impact melting and brecciation of the Cachari eucrite 3.0 Gy ago. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. Danon, M. Christophe Michel-Levy, C. Jehanno, K. Keil⁺, C. B. Gomes, R. B. Scorzelli and I. Souza Azevedo: Awaruite (Ni₃Fe) in the genomict LL chondrite Parambu: Formation under high FO₂. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. L. Gooding*, K. Keil⁺, T. Fukuoka and R. A. Schmitt: Correlations between physical and petrological properties of chondrules. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- J. P. McKinley⁺*, G. J. Taylor and K. Keil: The origin of Apollo 16 dimict breccias. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
- S. G. McKinley⁺*, E. R. D. Scott, G. J. Taylor and K. Keil: A unique type 3 ordinary chondrite containing

graphite-magnetite aggregates: Allan Hills A77011.
Meteoritical Society Meeting, Berne, Switzerland, August
17-21, 1981.

A. Okada and K. Keil[†]: Caswellsilverite, NaCrS₂, a new mineral
in the Norton County enstatite achondrite. Meteoritical
Society Meeting, Berne, Switzerland, August 17-21, 1981.

A. E. Rubin*, E. R. D. Scott, G. J. Taylor and K. Keil: The
Dimmitt H chondrite regolith breccia and implications for the
structure of the H chondrite parent body. Meteoritical
Society Meeting, Berne, Switzerland, Aug. 17-21, 1981.

E. R. D. Scott[†], G. J. Taylor, P. Maggiore*, K. Keil, S. G.
McKinley* and H. Y. McSween, Jr.: Three CO₃ chondrites
from Antarctica--Comparison of carbonaceous and ordinary
type 3 chondrites. Meteoritical Society Meeting, Berne,
Switzerland, August 17-21, 1981.

A. M. Kudo[†], S. E. Barker*, K. Keil and M. H. Beeson:
Coherence of major and trace element modelling: Evidence
for fractional crystallization of basalts from DSDP Leg 65,
East Pacific Rise. Meeting of the Amer. Geophys. Union,
San Francisco, Calif., Dec., 1981.

Albert M. Kudo

Presented paper at American Geophysical Union Annual Meeting in
San Francisco, California, Dec. 6-11. "Coherence of major
and trace element modelling: Evidence for fractional
crystallization of basalts from DSDP Leg 65, East Pacific
Rise," on Dec. 8. Attended Field Conference of New Mexico

Geological Society, around Grand Junction, Colorado.
(Western Slope of Colorado)

Barry S. Kues

Attended A.A.P.G. Rocky Mountain Section Meeting, April 13-15.

Leslie D. McFadden

Professional Presentations

"Changes in Pedogenic Iron-oxyhydroxides with Time in Soils Formed on Lithic Arkosic Alluvium" and "The Impact of Holocene-Pleistocene Climatic Change on Soils Genesis in the Eastern Mojave Desert, California," papers presented at the Geological Society of America, Cordilleran Section Meeting, Hermosillo, Sonora, Mexico, March 25-27.

Stephen G. Wells

Professional Papers Read

"Geomorphic Effects of the La Mesa Fire, Bandelier National Monument, New Mexico" with W. D. White, presented at the La Mesa Fire Symposium, Oct. 6, 1981, sponsored by the Southwest Fire Council, National Park Service, Los Alamos National Laboratory.

"Quaternary Landscape Evolution in the Southeastern Colorado Plateau" with L. N. Smith*, T. F. Bullard* and J. D. Schultz, presented at the Geological Society of America, Cordilleran Sectional meeting, Mar. 25-27, 1981, Hermosillo, Mexico.

"Geomorphology of the Chaco Dune Field, Northwestern New Mexico", with J. D. Schultz, presented at the Geological Society of America, Cordilleran Sectional meeting, Mar. 25-27, 1981, Hermosillo, Mexico.

"Applications of Geomorphology to Surface Coal-mining Reclamation, Northwestern New Mexico" with D. E. Rose*, presented at symposium on Environmental Geology and Hydrology in New Mexico, Rocky Mt. Section, American Association of Petroleum Geologists, April, Albuquerque, New Mexico.

"Evolution of Geothermal Potential of Truth or Consequences Area, New Mexico", with M. Mahoney* and G. R. Jiracek, presented at the Rocky Mt. Section, American Association of Petroleum Geologists, April, Albuquerque, New Mexico.

Meetings attended

Geological Society of America, Cordilleran Sectional Meeting in Hermosillo, Mexico.

Geological Society of America, Annual Meeting in Cincinnati, Ohio.

GSA Hydrogeology Fieldtrip in Central Kentucky.

American Association of Petroleum Geologists, Rocky Mountain Section Meeting in Albuquerque, New Mexico.

Reviews

Co-chairman, Sedimentology Session, Cordilleran Sectional Meeting, Geological Society of America, Hermosillo, Mexico.

Reviewed article for Geological Society of America Bulletin.

Reviewed article for Geological Society of America Geology.

Reviewed abstracts for publication in the American Association of Petroleum Geologist Bulletin.

Lee A. Woodward

Associate Editor, Geological Society of America Bulletin.

Program Chairman, American Association of Petroleum

Geologists Rocky Mountain Section Meeting, April 12-15, 1981,
Albuquerque.

Presented paper on Montana Overthrust Belt at American

Association of Petroleum Geologists Rocky Mountain Section
Meeting, April 13, 1981, Albuquerque.

Attended Montana Geological Society field conference on southwest
Montana, August 23-26, 1981, Billings and Dillon, Montana.

7. OTHER PROFESSIONAL ACTIVITIES

Roger Y. Anderson

Peer review of proposals for NSF

Lake acidification in Washington State ...

Development of soils on slopes ...

Paleopalynology of Eureka Sound Fm ...

Studies of isotopic carbon ...

Soil Chronosequences in arid regions ...

Late Pleistocene-Holocene Chronology, Calif. ...

Consultant, State of New Mexico, Environmental Evaluation Group,
Santa Fe.

Participant and speaker, Technical Workshop on WIPP. Paper
read: "Bacteria-induced permeability in Delaware Basin
Evaporites." September, 1981.

Presentation to State of New Mexico, Governor's Task Force on
Radioactive waste disposal, Santa Fe: "Deep-seated
dissolution of Salt in the Delaware Basin", April.

Poster Session on "Departmental Research", New Mexico Geol.
Society Meeting, Albuquerque.

TV Appearance, KNME Weekly Journal, as Consultant on WIPP.

TV Interviews, KOAT-TV and KOB-TV, on WIPP brine discovery.

Expert witness (subpoened), U.S. District Court; on dissolution
and stability of WIPP site.

Lecturer (two sessions) in College of Arts & Sciences

undergraduate courses on Environmental Problems; lecture on "Future Climatic Changes" and on "Problems of Radioactive Waste Disposal".

Douglas G. Brookins

"Geologic Aspects of Radioactive Waste Disposal" (Downtown Albuquerque Kiwanis Club, Jan. 1981).

"Radioactive Waste Disposal" (Albuquerque Rockhounds Club; April, 1981).

"Geology and Radioactive Waste" (Manzano Kiwanis Club; May, 1981).

Kimberlites workshop, Manhattan, KS; summary paper on "Isotopic and trace element geochemistry and mineralogy of Kansas Kimberlites".

One-day short course on "Geology and geochemistry of the Grants Mineral Belt, NM" (Grants, NM; May 1981).

Workshop on natural analogues for radwaste studies, Berkeley, CA; May 1981.

Workshop on crystalline rocks for radwaste analogues; Riverside, CA; Sept. 1981.

"Update on the Oklo Natural Reactor" to Dept. of Chem. Nuc. Engg.; Feb. 1981.

"Some Geochronological Studies in New Mexico", to Geology 401 Seminar, Nov. 1981.

Visiting staff member, Los Alamos National Laboratory (part-time).

Visits with Sandia Laboratories personnel on radwaste, uranium mill tailings, theoretical studies on radwaste, evaporites.

Visits with LLNL-SAI personnel to assess poisoned lands/inland seas, and other areas of geotoxicity.

Summer Science Research Assistantship Program for Albuquerque Public Schools.

Reviewed proposals to U.S.D.O.E., ACS-PRF, NRC, NSF.

Reviewed manuscripts for Jour. Geol., Min. Soc. Amer., Jour. Volcan. Geothermal Res., Materials Res. Soc. (Sym. Volume), Nuclear Technology.

Reviewed seven papers for Math. Geol., Science, AAPG Bull., Geology, Uranium

Reviewed six proposals for NSF and ACS-PRF

Editor for Uranium

Attended MRS workshop in Atlanta, Georgia, Jan. 7-8, 1982

Attended NRC workshop in Berkeley, CA (LBL) Mar. 23-25, 1982

Guest lecturer at Calif. State-Los Angeles, Feb. 1, 1982

Appointed to Publications Committee of the MRS

Elected to UNM Faculty Senate for 1982-84

Jonathan F. Callender

Invited oral report to Governor B. King, New Mexico, Concerning United Nuclear Corp. Church Rock operation, Jan. 6, 1981.

Invited Oral report to the New Mexico State Radioactive Waste Consultation Task Force concerning the WIPP project, April 27, 1981.

Reviewer; National Science Foundation Geological Society of America, American Geophysical Union, Southwest Resource Center for Science & Engineering, Environmental Policy Institute, McGraw-Hill, Inc.

Invited speaker, Mississippi Nuclear Waste Forum, Biloxi,
Mississippi, Nov. 8, 1982.

TV interview, KUNM-TV

Interview, Science Magazine, Salem, Oregon Newspaper, etc.

Field trips for geologists from Marathon Oil Company, Tenneco
mineral Company, and Conoco Minerals Co.

UNM Community College, "Geology of New Mexico"

Consultant for Albuquerque Museum of Science; State of New
Mexico Environmental Policy Institute; New Mexico Museum of
Natural History; and other.

Wolfgang E. Elston

Colloquium speaker, New Mexico State University, Las Cruces,
November 19-20, 1981. "Mid-Tertiary Volcanism and
extensional tectonics, southwestern North America."

Geologic field trip with personnel from New Mexico Bureau of
Mines and Mineral Resources, December 16, 1981.

Consultant to the mining industry, engineering firms.

Rodney C. Ewing

Secretary and member of the Board of Directors of the Caswell
Silver Foundation.

Treasurer and member of the Board of Directors of Energy,
Exploration Education, Inc.

Member of the Department of Energy's Review Panel for
Alternative Radioactive Waste Forms.

Reviewed manuscripts and proposals for the following:
Burgess Press

Prentice Hall, Inc.
Research Corporation
The American Chemical Society
Nature
Science
The American Mineralogist

The National Endowment for the Humanities
Recipient of Oak Ridge Associated Universities Contract to
support travel and research at Oak Ridge National
Laboratory.

Stephen P. Huestis

"Plate Tectonics" - talk delivered to Albuquerque Gem and Mineral
Club, Oct. 26, 1981.

"Some Methods of Linear Geophysical Inverse Theory" colloquium
given to Mathematics Dept., UNM, Nov. 19, 1981.

Papers reviewed for J. Geophys. Res., Geophys. J. R. Astr.
Soc.

Proposals reviewed for NSF

Taught geophysics section of Sandia Labs. Tech. Course,
"Fundamentals of Geoscience"

Jeffrey A. Grambling

Reviewed manuscripts: American Mineralogist, Canadian
Mineralogist, Chemical Geology.

Consulting project completed: Associated Mining Properties,
Portales, New Mexico

Raymond V. Ingersoll

Gave talk at the United States Geological Survey, Menlo Park,
California, 28 May 1981.

Visited School of Earth Sciences, Stanford University, Stanford,
California.

Gave two talks at Indiana University, Bloomington, Indiana.

Gave talk at Northwestern University, Evanston, Illinois;
University of California, Berkeley, California; California
Institute of Technology, Pasadena, California; California
State University, Los Angeles, California; New Mexico State
University, Las Cruces, New Mexico; Los Alamos National
Laboratories, Los Alamos, New Mexico.

Visited the University of Southern California, Los Angeles,
California (twice).

Visited the University of California, Los Angeles, California (six
times) (gave one talk).

Visited the University of California, Riverside, California

Visited the University of California, Santa Barbara, California
(gave two talks).

Reviewed manuscripts for the following publications:

Geological Society of America (17)

Journal of Sedimentary Petrology (3)

Earth and Planetary Science Letters

SEPM Special Publication (2)

Initial Reports of the Deep Sea Drilling Project

Geology

Reviewed textbooks for:

W. C. Brown Publishing Co.

Burgess Publishing Co.

Reviewed two grant proposals for the National Science Foundation

Reviewed one grant proposal for the American Chemical Society,
Petroleum Research Fund.

Consultant for Gulf Oil Corporation

Consultant for archeology dig in north valley of Albuquerque

Klaus Keil

Consultant, Sandia National Laboratories, Albuquerque, N.M.

Reviewed two proposals submitted to NASA for funding.

Reviewed nine scientific papers submitted for publication to

Geochimica et Cosmochimica Acta, Meteoritics, Science, and
Nature.

Several interview with Lobo, Albuquerque Tribune and Journal,
regarding Caswellsilverite (a new mineral).

Served on Program Committee for 12th Lunar and Planetary
Science Conference, to be held in Houston, Texas.

Served on 4-man review panel of Geology Department and its
programs, North Carolina State University, Raleigh, North
Carolina.

Appointed Distinguished Visiting Scientist, Jet Propulsion
Laboratory, Pasadena, California (for 1981).

Member, Editorial Board, Journal "Chemical Geology".

Member, Editorial Board, Colorado School of Mines Quarterly,
Golden, Col.

Chairman, Lunar and Planetary Science Council, Universities
Space Research Association, Houston, Texas.

Member, Antarctic Meteorite Working Group, National Science
Foundation - National Aeronautics and Space Administration.

Member, Editorial Board, Tschermak's Mineralogisch-
Petrographische Mitteilungen, Vienna, Austria.

Together with Dr. E. R. D. Scott, organized and co-hosted
Biweekly Brown Bag Seminar, Institute of Meteoritics and
Department of Geology, with the following speakers and their
topics (student speakers are indicated by asterisk*):

- M. Jercinovic* (UNM): Subglacial volcanism in north-central
British Columbia: Analog processes to formation of
Martian soil. Jan. 23, 1981.
- L. D. Nealey* (UNM): Geology, petrology, and
geochemistry of the Mount Baldy volcano, Arizona.
Feb. 6, 1981.
- A. Okada (UNM): The origin of the Norton County
achondrite. April 10, 1981.
- A. Rubin* (UNM): History of the H chondrite parent body
regolith. May 15, 1981.
- Dr. R. S. Clarke, Jr. (Dept. of Mineral Sciences,
Smithsonian Institution, Natl. Museum of Natural
History, Washington, D. C.): Structural development
in meteoritic metal. June 5, 1981.
- Dr. C. C. Allen (UNM): What can we learn from impact
melts? June 25, 1981.
- Dr. S. Reed (Dept. of Mineralogy, Cambridge University,
Cambridge, England). Adventures with an ion probe.
July 10, 1981.
- Dr. G. J. Taylor (UNM): Origin of the lunar crust. July
23, 1981.

P. Maggiore* (UNM): Oscillatory zoning in birefringent garnets from metacarbonates, Emery Cauldron, Southwestern, New Mexico. Oct. 19, 1981.

Dr. P. H. Warren (UNM): Fieldwork in the Fongenhyllingen layered intrusion, Norway. Oct. 30, 1981.

Dr. K. Keil (UNM): Composition and origin of chondritic breccias. Nov. 5, 1981.

Dr. E. R. D. Scott (UNM): Primitive breccias among type 3 ordinary chondrites- Origin and relation to regolith breccias. Nov. 5, 1981.

A. E. Rubin* (UNM): Petrologic insights into the fragmentation history of asteroids. Nov. 5, 1981.

Dr. G. J. Taylor (UNM): Petrologic comparison of lunar and meteoritic breccias. Nov. 5, 1981.

Hosted the meeting of the New Mexico Microbeam Analysis Society and their annual national tour speaker, Dr. Charles Evans. Dr. Evans presented 2 talks on "Advances in thin film microanalysis and scanning Auger electron spectroscopy" and "Secondary ion mass spectrometry". Oct. 20, 1981.

Hosted Professor H. E. Suess (Univ. of California, La Jolla), a Caswell Silver Distinguished Lecturer. Dr. Suess presented two talks on "Terrestrial cosmogenic radiocarbon, solar activity and the climate", and "Solar system abundances of the elements". Dec. 2-3, 1981.

Organized and hosted the visit of Professor F. Freund, Univ. of Cologne, West-Germany. Dr. Freund presented a talk entitled "Atomic and molecular hydrogen in minerals of

deep-seated origin: Implications to mantle petrology".

August 27-28, 1981.

Hosted visit of Dr. Derek Sears, Dept. of Geological Sciences,
Univ. of California, Los Angeles. Dr. Sears presented a
talk on "Thermoluminescence and meteorite classification".
August 3-4, 1981.

Hosted the visit of Dr. R. V. Fodor, Department of Geosciences,
North Carolina State University, Raleigh, N.C. Dr. Fodor
did research with our electron microprobe facilities. August
17-24, 1981.

Hosted the visit of Professor L. Grossman, Dept. of Geosciences,
Univ. of Chicago, Chicago, Illinois, who served as a Caswell
Silver Distinguished Lecturer. Dr. Grossman presented 2
talks on the Allende meteorite, its light-colored inclusions,
and nuclear isotopic anomalies. Sept. 23-24, 1981.

Television Press Conference (with Dr. A. Okada) on the newly
discovered mineral Caswellsilverite. Oct. 9, 1981.

Gave radio interview on Caswellsilverite, a newly discovered
mineral, Oct. 15, 1981.

Gave radio interview for Radio Free Europe on research activities
of the Institute of Meteoritics. Oct. 17, 1981.

Hosted the visit of Dr. S. J. Rajan, Jet Propulsion Laboratory,
Pasadena, California. Dr. Rajan gave a talk on
"Carbonaceous chondrite breccias". July 8, 1981.

Albert M. Kudo

Presentation to Albuquerque Gem and Mineral Club

Reviewed two papers: one for Jour. of Geophysical Research,

the other for Geological Society of America

Reviewed one proposal for National Science Foundation

Consulting: Keradamex, Inc.; Terra Southwest-Doma Corp

Teaching: Sandia Laboratories

TV Tape presentation on Volcanoes for the Cable Education
Channel

Barry S. Kues

Interviews with Sunset Magazine on Bisti Badlands area fossils
(July-August, 1981)

Advised Public Service Company of New Mexico concerning their
traveling exhibit of fossils (Aug. 3, 1981)

Reviewed manuscript of "The Fossil Record and Evolution, for W.
H. Freeman Co. (Aug., 1981)

Led a Sierra Club fieldtrip through parts of the San Juan Basin,
explained geology and paleontology (Sept. 19-20, 1981)

Talk on the history of life to Manzano High School Honors Class
(Oct. 22, 1981)

Talk to Crestview Elementary School on dinosaurs (Oct. 28, 1981)

Talk on New Mexico dinosaurs to Eisenhower Middle School Class
(Nov. 23, 1981)

Identified fossils for the public and University of New Mexico
personnel (throughout year)

Led tours through the Geology Museum and paleontology
laboratories (throughout year)

Consulted with lawyers for Sierra Club on San Juan Basin
paleontology (Feb. 5, 1982)

- Television interview with Newsweek Magazine on Bisti Badlands controversy (Feb. 11, 1982).
- Lectures to University of New Mexico General Studies 122 class on evolution and paleontology (Feb. 15, 17, 1982).
- Testified before New Mexico Senate Rules Committee on Natural History Museum (Feb. 16, 1982).
- Participated in the drafting of a plan for dealing with paleontological materials found on state lands during mining activities (Feb. 19, 1982).
- Talk on fossils and dinosaurs to Puesta del Sol Elementary School class, Rio Rancho (March 10, 1982).
- Talk to Texas Tech graduate museology class on accession and cataloging procedures in Dept. of Geology paleontological collections (April 1, 1982).
- Talk on New Mexico paleontology to Rio Rancho Rockhound club (April 6, 1982).
- Participated in filming of a story on New Mexico dinosaur fossils, KGGM-TV (April 28, 1982).
- Talk on dinosaurs to 4 John Baker Elementary School Classes (May 11, 1982).
- Identified fossils for the public and U.N.M. personnel (throughout year)

Kenneth D. Mahrer

- Consulted with J. Hunter of Los Alamos' Geologic Applications Group on Geophysical measurements applied to the geothermal energy north of Bernalillo.

Leslie D. McFadden

Reviewed proposal for the following:

Assistance in formal review of NSF proposal

Article Review

Formal Review of "Preliminary Plant Succession on Debris Flows in Wood Canyon, Death Valley National Monument," Chapter III in U.S.G.S. Professional Paper, by Weeb, R. H.

Travel to other Institutions

California State University at Los Angeles

Stephen G. WellsConsultancies

Environmental Improvement Division, Department of Health and Environment, State of New Mexico, Radiation & Water Pollution Division

Simons, Li & Associates, Inc., Fort Collins, Colorado.

Office of Contract Archaeology, University of New Mexico.

Media

Television interviews on New Mexico Water Supply, KOB-TV, April, 1981.

Newspaper interviews on water supply & pollution, Albuquerque Journal & Tribune, April-May, 1981.

Newspaper articles on uranium-tailings research in several New Mexico papers, Summer, 1981. etc.

Hosted Dr. Victor Baker, University of Arizona for presentations at Department of Geology, University of New Mexico.

Served on Science Committee for nonprofit organization, Cave
Research Foundation.

Lee A. Woodward

Reviewed research proposals for National Science Foundation.
Taught seminar on Western Overthrust Belt for Sun Oil Company,
Dallas, Texas, October 1981.
Travel to Southern Methodist University, Montana State
University, and Arizona State University.

Crayton J. Yapp

Reviewed manuscript for Nature
Reviewed proposal for National Science Foundation
Presented talk at New Mexico Tech in Socorro on January 21,
1982
Reviewed proposal for Southwest Resource Center for Science and
Engineering
Sample collection trip to southwestern and eastern New Mexico
Participation in UNM's "Calling Campaign" to recruit
undergraduate students
Elected to UNM Faculty Senate

 8. NON-TEACHING UNIVERSITY SERVICE

Roger Y. Anderson

Chairperson, UNM Committee on Paleocology

Chairperson, Promotion Advisory Committee for Natural Sciences
and Math, College of Arts & Sciences

Member, Arts and Sciences Tenure Committee

Douglas G. BrookinsDepartmental

Caswell Silver Lecturers Committee, 1980-81

Director, Geochronology Laboratory

Committee work

Dissertations and Theses Completed in 1981 (Supervisor)

Ph.D. dissertation: "Geochemical studies of the Grants Mineral
Belt, New Mexico" (R. S. Della Valle)

M.S. Thesis: "Diagenesis of the Westwater Canyon Member,
Morrison Formation, East Chaco Canyon Drilling Project, New
Mexico" (R. T. Hicks)

M.S. Thesis: "Geology of the Eastern Smith Lake Ore Trend,
McKinley County, New Mexico" (S. J. Ristorcelli).

M.S. Thesis: "Geology and Geochemistry of the Mariano Lake
Uranium Mine, Grants Mineral Belt, New Mexico" (J. T.
Place).

Supervisor for the following M.S. Students

M. S. Abashian, C. E. Olsen, R. M. Lowy (Theses to be
completed Spring 1982)

H. A. Vogler, A. J. Leonard, J. Hudson (Theses in progress)

R. Abitz, T. Heller, M. Murphy, P. Longmire, R. Boyd
(M.S Advisor)

Member of advisory committee for eight other M.S. students

Joint UNM-Dept. Geology Services

Represented the Geology Department for NSF - U. S.

Congregational Staff Visit to UNM on May 27, 1981. Gave overview on departmental programs and arranged tour of Geology facilities.

Jonathan F. Callender

Academic recruitment of high school students for UNM (calling campaign, Athletic Department, Senior Day, etc)

Presentation to University of New Mexico Foundation, Inc. Board of Directors, Talks to Albuquerque Gem & Mineral Club; Sierra Club (Santa Fe and Albuquerque) New Mexico State Parks and Recreation Division; Albuquerque Junior League ("Story of Albuquerque"); YMCA Evening Program

Managing Editor, Department of Geology; Undergraduate advisor, Department of Geology, Numerous Department of Geology committees; BRSO/SURP Review Committee (UNM)

Senior thesis, M.S. and Ph.D. thesis chairman and committee member; Career Enrichment Program, UNM; Legislators Day speaker, UNM; M.S. thesis committee, NMIMT

Wolfgang E. Elston

Member, Research Policy Committee and Chairman, Research

Administration Subcommittee.

Appointed Acting Chairman, Department of Geology, for 1982.

Member, Department Graduate Program Committee.

Member, Department Search Committee for Caswell Silver

Distinguished Professor.

Participant, University Telephone recruitment campaign, February
2, 1981.

Participant, University freshman orientation program, June 17,
1981.

Member, Tenure Advisory Committee, College of Arts and Sciences
(academic year 1980-81).

Appointed to Board of Directors, Caswell Silver Foundation for
1982.

Rodney C. Ewing

Served as Chairman of the Department (member or ex officio
member of all Department Committees).

Stephen P. Huestis

Advisor - Four Masters students, one Ph.D. student.

Co-Advisor - one Ph.D student in math department

Various departmental committes

Member - College of Arts & Sciences Computer Use Committee

Jeffrey A. Grambling

Coordinator, Geology exhibit, New Mexico State Fair, 1981.

Thesis advisor, three M.S. students (P. Maggiore, D. B.

Codding, D. Plummer).

Committee work: member, Committee on Graduate Admissions and Financial Aid, Geology; supervisor, thin section laboratory; supervisor, teaching microscopes.

Raymond V. Ingersoll

Chairperson, Geology Department Scholarship Committee.

Chairperson, Geology Department AAPG Lecture Series.

Chairperson, Geology Department Soft-Rock Search Committee.

Member, Geology Department EEEEC-Professorship Committee

Department host for the following visitors:

Peter J. Coney

Stephan A. Graham

Warren B. Hamilton

Paul Heller

Jeremy K. Leggett

Roelof J. Murriss

Raymond Siever

Member, eight thesis committees.

Chairperson, one thesis committee.

Klaus Keil

Administration of Institute of Meteoritics and its collections.

Chairman and member of several thesis and dissertation committees in the Department of Geology.

Served on UNM - University of Sao Paulo, Brazil joint research and exchange program committee.

Participated in Parent Day, UNM.

Chaired committee on promotions of Associate Professors,

Department of Geology, UNM.

Served as Director of the Caswell Silver Foundation, Department
of Geology, UNM.

Chaired search committee for Caswell Silver Distinguished Visiting
Professor, Department of Geology, UNM.

Served on A & S Search Committee for a new Dean, UNM.

Served on several M.S. and Ph.D. comprehensive examinations
committees.

Assisted in setting up Department of Geology-Institute of
Meteoritics exhibit at New Mexico State Fair.

Assisted in supervision of renovation of basement into
laboratories, Dept. of Geology Building.

Served on several M. S. Qualifying and comprehensive
examination committees in the Department of Geology.

Served on Department of Geology Committee to revise
requirements for geology Ph.D. program at UNM.

Albert M. Kudo

Chairman of UNM-Sandia Colloquium Committee

Chairman of UNM Science Colloquium Committee

Member of University Library Committee, UNM

Member of several departmental committees including Graduate
Admissions, Scholarship

Chairman or Co-chairman of the Following M.S. Thesis Committees

Bruce Harvey

Rick Lozinsky

Brian Honea

Ellen Lambert

Kevin Guilbeau

Harlan Stein

Member of many M.S. and Ph.D. Thesis Committees including:

A. Rubin, Ph.D.

C. Condit, Ph.D.

D. Nealey, Ph.D.

J. Mackenzie, Ph.D.

S. McKinely, M.S.

T. Woodard, M.S.

R. McCarty, M.S.

K. Emmanuel, M.S.

J. Connolly, M.S.

M. Jercinovic, M.S.

G. Atwood, M.S.

P. Kautz, M.S.

Barry S. Kues

Geology Department representative on Arts & Sciences Graduate
Committee

Geology Department liaison with Zimmerman Library

Geology Department representative on Arts & Sciences Teaching
Resources Committee

Assistant Chairman, Department of Geology

Chairman, Geology Department Graduate Admissions Committee and
Petitions Committee

Chairman, Geology Dept. Publications Committee

Revised Geology Dept. information brochure

Kenneth D. Mahrer

Faculty Advisor of Geology Club, 1981-1982.

Geology Faculty representative to UNM Seniors Day,
1981.

Geology Faculty Committees: graduate admissions committee,
computer use committee, Caswell Silver Visiting Professorship
Committee, reading room committee.

Curator Geology Department's geophysical equipment.

Stephen G. Wells

Served on the following Departmental committees: undergraduate;
departmental vehicles; map room; sed./strat. lab

Faculty Theses advisor to ten M.S. level graduate students.

Helped develop program on Quaternary Studies with Dr. L.
McFadden.

Developed and organized Photogeology library for Geology
Department.

Lee A. Woodward

Chairman of five thesis committees, member of three other thesis
committees.

Crayton J. Yapp

Chaired Committee to review departmental Ph.D. requirements,
chairman of committee on departmental reading room, member
departmental scholarship committee.

9. PUBLIC SERVICE

Roger Y. Anderson

Identification of fossils, rocks, and minerals for public.

Douglas G. Brookins

Board of Trustees, Congregation Albert (to Jan. 31, 1981).

Service work for Congregation Albert.

Invited to participate in U. S. Governments People-to-People Program to People's Republic of China; declined due to lack of funding.

Jonathan F. Callender

Consultant to Action Line, Albuquerque Journal

Many items in Appendix 8 are partially public service

Wolfgang E. Elston

Member, Board of Directors, Family Support Center of New Mexico (Ronald McDonald House).

Klaus Keil

Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite museum to interested citizens, school classes, civic groups, etc.

Investigated without charge many rocks suspected to be meteorites and brought to the Institute by citizens.

Presented talk in "Jupiter, Saturn and their Moons: Results of the Jupiter fly-by missions. Santa Fe Astronomers, Santa Fe, NM June 15, 1981.

Albuquerque Science Fiction Club, July 11, 1981; Mensa Organization, Albuquerque, September 19, 1981; Albuquerque Gem and Mineral Club, September 28, 1981; Masonic Lodge, Albuquerque, October 22, 1981; McKinley Middle School, Albuquerque, November 30, 1981; Solomon Middle School, Los Lunas, December 8, 1981; Four Corners Geological Society, Farmington, December 10, 1981.

Hosted Astronomy Class of Albuquerque Career Enrichment Center, showed Meteoritic Museum, and presented talk on "Lunar geology", Oct. 1, 1981.

Presented talk on "The future in Space" at the UNM German Summer School, Taos, NM, July 7, 1981.

Barry S. Kues

Member, Policy Advisory Committee for New Mexico State Museum of Natural History; chairman of bylaws and personnel screening subcommittees

Secretary, Natural History Resource Management, Inc. (the Natural History Museum foundation) Member, Albuquerque Museum Program Committee

Member, Albuquerque Museum Program Committee

Many activities cited Appendix 8 were of a public service nature

Kenneth D. Mahrer

Consulted with Pathfinder Mines Corp. on using the Induced Polarization geophysical exploration technique for finding uranium.

Stephen G. Wells

Provided service to Sierra Club concerning reclamation in New Mexico.

Provided service for mountain area residents concern over water quantity and quality.

Helped develop exhibit on energy and mineral resources of New Mexico for 1981 State Fair.

APPENDIX A. COMPANIES INTERVIEWING GEOLOGY STUDENTS
1981-82

<u>DATE</u>	<u>COMPANY</u>	<u>CAREER SERVICES</u>	<u>GEOLOGY DEPARTMENT</u>
10-01-81	Phillips	xx	
10-02	Phillips	xx	
10-08	Shell Oil	xx	
10-09	Shell Oil	xx	
10-12	Mitchell Energy & Development Corporation	xx	
10-14	Western Mining of North America	xx	
10-14	Mobil (Houston)		xx
10-16	Texaco		xx
10-19	Shell-Oil - Technical	xx	
10-22,23	Exxon		xx
10-26	El Paso Natural Gas		xx
10-27	Anaconda		xx
10-27	Atlantic Richfield		xx
10-28	Conoco		xx
11-04	Mobil (Uranium & Minerals)		xx
11-11	Gulf		xx
11-12	Gulf		xx
03-04-82	Rocky Mountain Geo-Engineering Co.		xx

APPENDIX B. REQUIREMENTS AND PROCEDURES
FOR Ph.D. IN GEOLOGY

1. Ordinarily, an individual should have an M.S. degree in order to be considered for the graduate program leading towards a Ph.D. Applications are encouraged from qualified individuals with M.S. degrees in geological sciences, chemistry, physics, astronomy, planetary science, biology or mathematics.

A qualified student who matriculates with a bachelors degree, but who seeks to enter the Ph.D. program, must first satisfy the requirements for obtaining an M.S. degree. However, it should be noted that research which is performed to satisfy the requirements for the M.S. degree may be used as the basis for further Ph.D. research, once an individual is admitted to the Ph.D. program and provided that the M.S.-level work shows such promise. The latter determination will be made at the time of the oral examination for admission to the Ph.D. program. Furthermore, high quality M.S. research which is presented in the form of a manuscript (to be submitted for publication in a respected, refereed journal) may satisfy the requirements for the M.S. thesis, although additional documentation of research may be required by the student's thesis advisor.

In rare cases only, exceptions may be made to the rule requiring an M.S. degree for admission to the Ph.D. program. By petition to the faculty, applicants with no M.S., but with considerable professional experience, as evidenced by high-quality published research, may be considered for admission to the Ph.D. program. In that event, the candidate may earn the M.S. degree with Plan II (see Graduate School requirements for the M.S.).

2. Temporary advisor: Each student will be assigned a temporary advisor to assist in registration, selecting courses, and planning of the program.
3. In general, a graduate student will take at least one field-mapping course while in residence. Students without previous course work in geological mapping will begin with Geology 319L, while those with such previous course work will take Geology 420L.

APPENDIX B. (continued)

4.1 Counseling interview: A $\frac{1}{2}$ hour counseling interview will be given to each student during registration week of the first semester of residence to determine proficiency in the following fundamental subjects:

- a) Mineralogy
- b) Petrology - geochemistry
- c) Structure - geophysics
- d) Sedimentology - stratigraphy - paleontology
- e) General geology

Upon evaluation of above subjects and transcripts by the interviewing committee, review of course work in these topics may be required in order to assure proficiency in these fundamentals. Students are urged to review all previous course work before the interview.

4.2 A rock identification exam will also be given during registration week of the first semester of residence, to all new students with a degree in geology.

5. Supervisor: Not later than the end of the first semester, the student should select a dissertation supervisor, who need not be the temporary advisor, and two additional members of a Committee on Studies.

6. Admission into the Ph.D. program: An oral examination will be given to determine whether the student has the potential to continue work towards the Ph.D., with emphasis on the student's ability to conduct independent, original research at the post-M.S. level. This Ph.D. Admission Examination must be taken not later than at the end of the third semester in residence and shall consist of the following:

6.1 The student will defend an original research project (for example: an M.S. thesis; some original research performed while in the first year of residence in the Ph.D. program, etc.). This defense should consist of an oral presentation of the research by the student (about $\frac{1}{2}$ hour). Emphasis should be on the research problem in question, the approach used to solve the problem, the results of the study and a discussion of the conclusions. After the oral presentation, the student will be questioned by the Admissions Examination Committee (see 6.3 below) regarding the specific research project and closely related subjects of which the student can reasonably be expected to be knowledgeable. The emphasis will be on the student's ability to carry out original independent research projects. This examination will normally take about $1\frac{1}{2}$ hours. The student must submit to his Admissions Examination Committee, at least one month before the exam, a written report detailing the research project which is to be presented.

APPENDIX B. (continued)

- 6.2 After a $\frac{1}{2}$ hour coffee break, the student will be given a comprehensive examination lasting about $1\frac{1}{2}$ hours. For this examination, the student may choose three topics from the list of disciplines given below (6.3). In addition, the student will be examined in general geology (see 6.3).
- 6.3 The Ph.D. Admissions Examination Committee shall consist of 5 faculty members. The examination in the three areas of competence of the student's choice shall be administered by 3 faculty members selected by the student and should include the student's supervisor, who normally serves as the Admissions Examinations Committee Chairperson. The Department Chairperson will assign 2 additional faculty members to the student's Admissions Examinations Committee who shall examine the student in areas of general geology. The Department Chairperson will choose faculty members in an effort to balance the examination to cover required basic geological disciplines. The 13 areas of competence are as follows:
- a) Mineralogy
 - b) Igneous petrology
 - c) Metamorphic petrology
 - d) Sedimentary petrology
 - e) Sedimentology
 - f) Stratigraphy
 - g) Paleontology
 - h) Structure - tectonics
 - i) Geochemistry
 - j) Economic geology
 - k) Geophysics
 - l) Astrogeology - meteoritics
 - m) Geomorphology
- 6.4 There are only 2 possible grades for the Ph.D. Admissions Examination, namely PASS of both parts of the exam (in which case the student is admitted into the Ph.D. program) or FAIL of one part. In case the student fails the first part (see 6.1) of the Admissions Examination, the exam will not continue to the second part (see 6.2). In case the student fails the first part of the exam, the entire exam consisting of two parts (6.1, 6.2) may be taken over once. If the student fails the second part of the exam, that part may be taken over once. This retake must take place in the following semester and will normally be given by the same committee. If the student passes the retake exam, the student is admitted to the Ph.D. program (without penalty). Failure to pass the exam for the second time will end the student's participation in the Ph.D. program.
7. The student must pass an examination in one foreign language with a significant scientific literature, approved by the faculty. The examination may be given by a member of

APPENDIX B. (continued)

the geology faculty. Alternatively, completion of the fourth undergraduate semester (or equivalent) of a foreign language with a minimum grade of C will satisfy the language requirement. Graduate students in the United States on a foreign student visa, who command English as a second language and who have passed the TOEFL exam, will be considered to have satisfied the language requirement.

8. Course work: The student must complete 24 hours (beyond the M.S. degree) of 400- and 500-level courses in geology with a minimum grade point average of 3.0 (B average). These courses must have the following distribution:
 - a) at least 18 hours of 500-level courses
 - b) no more than half the total graduate course hours counted toward the required total may be taken with any one professor
 - c) no more than six hours of C grades may be included in the degree program
 - d) students entering the Ph.D. program with M.S. degrees in such areas as chemistry, physics, biology, mathematics, etc. and with no previous training in geology will take certain basic geology courses to provide a sound geological foundation for future work in both the 24 hours of course electives and concurrent thesis research. The appropriate basic geology courses will be determined in consultation with the student's adviser and must be approved by the geology faculty. Most basic courses do not carry graduate credit for geology students (see Graduate Bulletin).

9. Advancement to candidacy: After completion of at least 12 hours of course work beyond the M.S. and passing the Ph.D. Admissions Examination, application forms for advancement to candidacy should be submitted to the student's supervisor. The student must present a written dissertation proposal to the faculty for approval, prior to beginning work on the dissertation.

10. Dissertation: At least 18 hours of Geology 699 (Dissertation) must be taken. Two copies of an acceptable dissertation must be submitted to the Graduate School, 1 copy to the Geology Department, and 1 copy to the supervisor. Dissertation copies to Graduate School and Department must be unbound. In addition, the Department must receive mylar copies, suitable for blue-line reproduction, of any plates not included in the text of the dissertation (i.e., pocket plates).

11. Oral Defense of Dissertation: An oral presentation dealing with the dissertation will be given by the student; this is open to the public. The Committee on Studies will then have a closed period for questioning the candidate.

APPENDIX B. (continued)

12. All departmental charges, keys, reading room materials and so forth must be settled or returned before dissertation is approved. See Departmental Secretary for Thesis Approval Checklist.
13. Ten-year time limit: All work offered for the Ph.D. must fall within a ten-year period.
14. Please refer to the Graduate Bulletin for additional information concerning the requirements for the Ph.D.

 APPENDIX C. PROPOSED CURRICULUM IN GEOCHEMICAL ENGINEERING

 Proposed Two-year Curriculum for M.S. Candidates with
 B.S. in Chemical and Nuclear Engineering

YEAR I		YEAR 2	
<u>Sem. I</u>		<u>Sem. I</u>	
Geol 311L	4*	Geol 313L	3*
Geol 317L	3*	Geol 319L	4
Ch E 521 Adv. Transport I	3	Ch E 542 Adv. thermodyn.	3
Ch E 525 Analysis in Ch & NE	3	Elective	3-4
	<u>13</u>		<u>12-14</u>
 <u>Sem. II</u>		 <u>Sem. II</u>	
Geol 312 L	3*	Geol 314L	3*
Ch E 561 Kinetics	3	Elective	3-4
Elective	3-4		<u>6-7</u>
Elective	3-4		
	<u>12-14</u>	<u>Summers - Thesis</u>	<u>6</u>

30-34 hrs graduate credit

* Not for graduate credit (20 hrs)

 Proposed Two-year Curriculum for M.S. Candidates with B.S.
 in Geology (incl. Geol. 318, 405)

YEAR I		YEAR II	
<u>Sem. I</u>		<u>Sem. I</u>	
Math 316 App. ordinary diff. eq.	3*	Ch E 461 Applied che. kinetics	3*
Ch E 251L Chemical calculations	3*	Ch E 521 Advanced transport I	3
Ch E 311 Unit operations I	3	Ch E 525 Analy. in Ch & NE eng.	3
Elective	3	Ch E 542 Adv. thermodynamics	3
	<u>12</u>		<u>12</u>
 <u>Sem. II</u>		 <u>Sem. II</u>	
Ch E 252 Intro. to transport	3*	Ch E 561 Kinetics of chem processes	3
Ch E 312 Unit operations II	3	Elective	3
Elective	3		<u>6</u>
Elective	3	<u>Summers - Thesis</u>	<u>6</u>

* Not for graduate credit (18 hrs)

APPENDIX C. (continued)

Electives

Geology

410	Geochem	3
426L	Expl. geophys	4
471L	Mineral deposits	4
442	Petroleum	3
462	Hydrogeology	3
551-552	(w/permission)	
510	Adv. min. dep.	3
542L	Subsurface	
	Others by permission	

Chemical and Nuclear Engineering

431	Pet. process eng.	3
432	Geothermal eng.	3
533	Mineral process eng.	3
551-552	Probl.-fossil energy	3-6
501-502	(Proposed) seminar	3-6

APPENDIX D. FACULTY AND STUDENT TRAVEL TO CONFERENCES
SPONSORED BY THE CASWELL SILVER FOUNDATION

1. James McKinley, graduate student, Meteoritical Society,
Bern, Switzerland, August 20, 1981; "The origin of
Apollo 16 dimict breccias." Coauthors: G. J. Taylor,
K. Keil.
2. Wolfgang E. Elston, Professor, Conference on Zoning in
Volcanic and Subvolcanic Mineral Deposits, Crystal Bay
Nevada, October 5-7, 1981; "Ore deposits related to
mid-Tertiary volcanic centers, New Mexico."
3. Rodney C. Ewing, Department Chairman, 8th Annual
Stanford Synchrotron Users Group Meeting, Palo Alto,
California, October 22-23; "EXAFS investigation of the
local coordination of titanium in metamict minerals."
Coauthors: R. B. Gregor, F. W. Lytle.
4. Peter Maggiore, graduate student, Geological Society of
America, Cincinnati, Ohio, November 4, 1981;
"Oscillatory zoning of birefringent garnets from
metacarbonates, Emory cauldron, New Mexico."
Coauthor: J. A. Grambling.
5. Raymond V. Ingersoll, Associate Professor, Geological
Society of America, Cincinnati, Ohio, November 1-5,
1981; "Triple-junction instability as cause for late
Cenozoic extension and fragmentation of western United
States."

APPENDIX D. (continued)

6. Stephen P. Huestis, Assistant Professor, Fall Meeting, American Geophysical Union, San Francisco, California, December 1-11, 1981; "Structural relationship between a northeast-trending Precambrian shear system and a mafic intrusion beneath the Lucero uplift, New Mexico." Coauthor: Mark E. Ander.
7. Albert M. Kudo, Associate Professor, Fall Meeting, American Geophysical Union, San Francisco, California, December 7-11, 1981; "Coherence of major-and trace-element modelling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise." Coauthors: S. E. Barker, K. Keil, M. H. Beeson.
8. Charles W. Criswell, graduate student, 13th Annual Meeting, NASA Planetary Geology Principal Investigators Conference, Jet Propulsion Laboratory, Pasadena, California, January 12-14, 1982; "Morphological characteristics of terrestrial ash-flow tuff (ignimbrite) and related pyroclastic deposits." Coauthor: W. E. Elston.
9. Leslie D. McFadden, Assistant Professor, Cordilleran Section, Geological Society of America, Anaheim, California, April 19-23, 1982; "Simulated calcic-horizon development in alluvial soils." Coauthor: J. C. Tinsley. Coleader, Field Trip 12
10. Stephen G. Wells, Assistant Professor; Cordilleran Section, Geological Society of America, Anaheim, California,

APPENDIX D. (continued)

April 19-23, 1982; "Quaternary Deposits and Landscapes of the Chaco River Area, southeastern Colorado plateau. Co-Chairman of symposium section on Surficial Deposits of Southwestern U.S.

11. Lee A. Woodward, Professor, Rocky Mountain Section, Geological Society of America, Bozeman, Montana, May 7-8, 1982; "Structure of disturbed belt of west-central Montana."
12. Carlton C. Allen, post-doctoral Research Associate, Fifth International Symposium on the Scientific Basis for Radioactive Waste Management, Berlin, West Germany, June 7-10, 1982; "Stability and alteration of naturally-occurring low-silica glasses. Implications for the long-term stability of waste-form glasses."
13. Roger Y. Anderson, Professor, Fifth International Symposium on Scientific Basis of Radioactive Waste Management, Berlin, West Germany, June 7-10, 1982; "Deformation-dissolution potential of bedded salt, WIPP site, Delaware Basin, New Mexico."
14. Richard F. Haaker, Fifth International Symposium on Scientific Basis of Radioactive Waste Management, Berlin, West Germany, June 7-10, 1982 "Zirconolites from Sri Lanka, South Africa, and Brazil;" Coauthor: R. C. Ewing.

APPENDIX E. GEOLOGY DEPARTMENT COLLOQUIUM SPEAKERS,
1981-82

The following scientists visited the Department of Geology to present lectures and to discuss their research with faculty and students.

1. Dr. Stephen Reed, University of Cambridge, U.K.
"Adventures with an ion probe"
July 10, 1981
2. Dr. G. J. Taylor, University of New Mexico.
"Origin of the lunar crust"
July 23, 1981
3. Dr. Paul Warren, University of New Mexico.
"Petrology of pristine lunar rocks" and "Europium
'anomalies' among eucrites and lunar rocks"
July 31, 1981
4. Dr. Friedemann Freund, University of Cologne, West
Germany.
"Atomic and molecular hydrogen in minerals of deepseated
origin: Implications to mantle petrology"
August 28, 1981
5. Dr. Donald F. Bloss, Caswell Silver Distinguished Professor.
"Cordierites: 2V or not 2V and other questions"
September 3, 10, 1981
6. Mr. David E. Roberts, Roxby Management Services Adelaide,
South Australia.
"The geology of the Olympic Dam, copper-uranium deposit,
South Australia"
September 8, 1981
7. Dr. W. S. Fyfe, University of Western Ontario, London,
Ontario, Canada.
"Energy options and the environment"
September 22, 1981
8. Dr. W. S. Fyfe, University of Western Ontario, London,
Ontario, Canada.
"Hydrosphere - crust interaction"
September 23, 1981
9. Dr. Lawrence Grossman, Caswell Silver Distinguished
Lecturer, University of Chicago.
"Recent studies of refractory condensate inclusions in the
Murchison Type 2 carbonaceous chondrite"
September 23, 1981

APPENDIX E. (continued)

10. Dr. Lawrence Grossman, Caswell Silver Distinguished Lecturer, University of Chicago.
"The Allende meteorite: Implications for the origin of the solar system"
September 24, 1981
11. Dr. Peter J. Coney, University of Arizona.
"Accretionary tectonics in western North America"
October 1, 1981
12. Mr. Peter Maggiore, University of New Mexico.
"Oscillatory zoning in birefringent garnets from metacarbonates, Emory cauldron, southwestern New Mexico."
October 8, 1981
13. Dr. Victor R. Baker, University of Arizona.
"Catastrophic flooding: the origin of the Channeled Scablands"
14. Dr. Victor R. Baker, University of Arizona.
"Channels and valleys of Mars" October 15, 1981.
October 15, 1981
15. Dr. Warren Hamilton, U.S. Geological Survey.
"Crustal evolution by arc magmatism"
October 22, 1981
16. Dr. John Bristow, University of Cape Town, South Africa.
"Karoo volcanics of southern Africa: a general account of field relationships, geochronology and geochemistry"
October 29, 1981
17. Dr. J. J. Cohen, Scientific Applications, Inc.
"How dangerous is radioactive waste?"
October 30, 1982
18. Dr. Richard H. Flood, Macquarie University, Sydney Australia.
"The New England batholith, eastern Australia: geochemical variations in space and time"
November 5, 1981
19. Dr. Douglas G. Brookins, University of New Mexico.
"Some geochronologic studies in New Mexico"
November 12, 1981
20. Dr. Stephen A. Graham, Stanford University.
"Tectonic control on styles of sedimentation, structuring and petroleum occurrences: the California story"
November 19, 1981
21. Dr. Hans Suess, Caswell Silver Distinguished Lecturer, University of California, San Diego.

APPENDIX E. (continued)

- "Terrestrial cosmogenic radiocarbon, solar activity and the climate."
December 2, 1981
22. Dr. Hans Suess, Caswell Silver Distinguished Lecturer, University of California, San Diego.
"Solar-system abundances of the elements."
December 3, 1981
23. Dr. Lewis Ashwal, Lunar and Planetary Institute, Houston.
"Proterozoic anorthosite massifs: a review."
December 10, 1981
24. Dr. William W. Hay, University of Miami, Florida.
"The effects of rifting of Pangaea."
January 25, 1982
25. Dr. Donald F. Sangster, Thayer Lindsley Distinguished Lecturer, Society of Economic Geologists, Geological Survey of Canada. "Physical parameters of ore fluids and depositional environments controlling formative sites of submarine exhalative deposits in volcanic and sedimentary terranes"
January 28, 1982
26. Dr. Donald F. Sangster, Thayer Lindsley Distinguished Lecturer, Society of Economic Geologists, Geological Survey of Canada. "Sandstone-hosted lead deposits: A review of their geology and genesis."
January 29, 1982
27. Dr. Charles Dodge, American Association of Petroleum Geologists Distinguished Lecturer.
"Old oil fields never die - the history of the Barnhart Field, Texas."
February 3, 1982
28. Dr. William T. Holser, University of Oregon.
"Chemical changes in the ocean during the Phanerozoic."
February 4, 1982
29. Dr. John Bristow, University of Cape Town, South Africa.
"Diamond mining in southern Africa."
February 4, 1982
30. Dr. Phillip Kyle, New Mexico Institute of Mining and Technology.
"Volcanic activity associated with the phonolite Lava Lake at Mt. Erebus, Antarctica."
February 11, 1982
31. Dr. Rodney S. Thurston, Sigma Xi Distinguished Lecturer.
"Synfuels, SASOL, and politics."
February 12, 1982

APPENDIX E. (continued)

32. Dr. J. Keith Rigby, Jr., Albuquerque Office, Bureau of Land Management.
"Age of the Fruitland and Kirtland Formations, and Cretaceous-Tertiary boundary problems in the San Juan Basin."
February 18, 1982
33. Mr. Robin Hickson, Manager, Ortiz Gold Mine, Goldfields Ltd.
"Mining practices at the Ortiz gold mine, Santa Fe County, New Mexico" March 4, 1982."
34. Dr. H. Forster, Technical Institute, Aachen, West Germany.
"Oxygen partial pressure measurements in silicate melts."
March 9, 1982
35. Dr. Arnold Bouma, Distinguished Senior Research Scientist, Gulf Research and Development Co., American Association of Petroleum Geologists Distinguished Lecturer.
"Intraslope basins on an active diapiric continental slope: A key to sandbody geometry in ancient submarine canyons."
March 11, 1982
36. Mr. Patrick Gratton. American Association of Petroleum Geologists Distinguished Lecturer.
"Employment factors for geologists in the petroleum industry."
March 22, 1982
37. Dr. A. Flexer, Caswell Silver Distinguished Lecturer, Department of Geophysics and Planetary Sciences Tel Aviv University, Israel, and Colorado School of Mines, Colorado.
A series of nine lectures on:
"Regional geology of the Middle East and its relation to petroleum explorations."
1. Introduction, previous studies, geographic background.
March 25, 1982
 2. General geological setting - the Arabo Nubian craton (part of the Gondwana supercontinent) vs. the Alpine orogenic belt. Role of plate tectonics? Is a Benioff Zone present?
March 26, 1982
 3. The Precambrian crystalline and metamorphic rocks of the Arabo-Nubian craton, past orogenic activities and age determination.
March 29, 1982

APPENDIX E. (continued)

- 4-5. Stratigraphy of the Phanerozoic rocks with emphasis on paleogeography, depositional environments, sedimentation rates and hydrocarbon occurrence.
March 30, 1982
- a) The Paleozoic - the "Lower Clastic Division" - the Nubian Sandstone problem
 - b) The Mesozoic - the "Middle Calcareous Division" - reef models and sabkhas, limestone vs. chalk, bathymetry, flint and phosphate association.
 - c) The Cenozoic - the "Upper Clastic Division" - tectonic influence on sedimentation.
6. The 6,000 km long Syrian-African Rift Valley. The Red Sea spreading centers, hot brines and mineralization; spreading rate. The Jordan Valley - a ramp, a graben, a wrench fault or a new oceanic break-up?
March 31st
- 7-8. Oil exploration - giant oil fields; selected case histories.
#7 - April 1, 1982; #8 - April 1, 1982
9. Summary and conclusions. Future oil exploration; the future geologic setting of the Middle East and the Eastern Mediterranean in the light of present-day tectonic activities and earthquakes.
April 2, 1982
38. Dr. A. Flexer, Caswell Silver Distinguished Lecturer.
"Biblical record of geologic events that affect the Holy Land."
April 2, 1982
39. Dr. Matthew Golombek, Lunar and Planetary Institute, Houston.
"The Rio Grande Rift: Active or passive?"
March 31, 1982
40. Dr. Jack Oliver, Sandia-UNM Colloquium Lecturer, Cornell University.
"Exploration of the deep continental crust."
April 1, 1982
41. Dr. Jack Oliver, Sandia-UNM Colloquium Lecturer, Cornell University.
"Some results and some speculations based on COCORP seismic reflection profiling of the continental crust."
April 2, 1982

APPENDIX E. (continued)

42. Dr. Robert Weimer, Caswell Silver Distinguished Lecturer,
Colorado School of Mines. "intrabasin tectonics and
sedimentation in petroleum exploration."
April 8, 1982
43. Dr. Robert Weimer, Caswell Silver Distinguished Lecturer
Colorado School of Mines.
"Relation of unconformities, tectonics, and sea level changes,
Cretaceous, Western Interior USA."
April 9, 1982
44. Dr. Peter Francis, Lunar and Planetary Science Institute,
Houston.
"Geology from Space."
April 18, 1982
45. Dr. David McTigue, Sandia National Laboratories.
"The Palmdale Bulge: Real or imaginary?"
April 22, 1982
46. Dr. Steve Kissin, Lakehead University, Thunder Bay,
Ontario Canada.
"Sphalerite geobarometry and cosmobarometry."
April 29, 1982
47. Mr. Tim T. Schowalter, American Association of Petroleum
Geologists Distinguished Lecturer.
"Interpretation of subsurface hydrocarbon shows."
April 30, 1982
48. Dr. Allen Cogbill, University of California, Los Alamos.
"Uses of bore hole gravity data to infer geologic processes."
May 6, 1982

APPENDIX F. BOARD OF DIRECTORS,
ENERGY EXPLORATION EDUCATION INC.

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Consulting Geologist
Albuquerque, New Mexico

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Black Oil
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Dr. Charles F. Dodge
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Farmington, New Mexico

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Questa Petroleum
Albuquerque, New Mexico

APPENDIX G. RESOLUTION ON HARDING MINE
ADOPTED BY UNM BOARD OF REGENTS,
FEBRUARY 2, 1982

Noting the generous gift of the Harding Mine made to the University by Arthur Montgomery, it was moved by Dr. Martinez, seconded by Mrs. Jourdan, that the Regents approve the following resolution:

Whereas, the Harding pegmatite mine in Taos County, New Mexico is a classic example of its kind, containing more than 50 minerals, many of them rare; and

Whereas, Arthur Montgomery, recognizing the tremendous educational value of this mine, has donated it to the University of New Mexico; and

Whereas, the Congress of the United States of America has enacted legislation enabling the transfer of the mineral claims to the University of New Mexico; and

Whereas, present and future generations of students and scientists will be able to use this unique site as a most valuable outdoor laboratory,

Now, therefore be it resolved by the Regents of the University of New Mexico on this 2nd day of February, 1982, that the University of New Mexico express its gratitude and appreciation to Arthur Montgomery, professor, scientist, and philanthropist, for his most generous gift to the University.

The motion carried.

APPENDIX H. CONTRIBUTORS TO GEOLOGY ALUMNI FELLOWSHIP
FUND, 1981-82

John & Doris Anderson	Albert A. Kudo
Roger Y. Anderson	Barry S. Kues
Emery & Melba Arnold	Georgianna Kues
William A. Bisbee	Wayne Lambert
Mr. & Mrs. Albert J. Black	Jean La Paz
Charles Black	Robin & Nancy Lease
John H. Blagbrough	Moon J. Lee
Stephen & Kay Bolivar	Robert J. Leonard
Douglas G. Brookins	Winfried Leopoldt
Burton Brown	Joyce & John Lookingbill
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Russ Clemons	John M'Gonigle
Peter J. Coney	Keith Meador
Joseph Cramer	Mr. & Mrs. Tom O. Meeks
Ed Cruft	DeWayne A. Miller, Jr.
Charles Dodge	David & Bonnie Paffett
Mr. & Mrs. Wolfgang E. Elston	Glen E. Rawson
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Rodney C. Ewing	Alva and Evelyn Saucier
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Floyd Graham	Phillip Sterling
Patrick or Jean Gratton	Alan Dahl Strand
Philip T. & Helen Hayes	Ms. Susan Supernaw
George Hemenway	David Swensen
Stephen P. Huestis	Sam Thompson III
Rex Hewitt	Lawrence W. Wagner
Neal Immega	Alexander & Geraldine Wanek
Raymond V. Ingersoll	Stephen G. Wells
James & Beth Jameson	Dr. Sherman Wengerd
Eldred & Patricia Johnson	John K. White
James & Terri Kasten	John & Bertha Willett
Klaus Keil	Steven B. Willcut
Anne Robertson Kelley	Mr. & Mrs. Grant W. Wilson
Vincent C. Kelley	Lee A. Woodward
Mr. & Mrs. Douglas W. Kirkland	Robert Wyant

 APPENDIX I. DONORS OF GIFTS, 1981-1982

Phillips Petroleum Co. Exploration and Production Group	\$2,000	Unrestricted
ARCO Exploration Co.	\$4,000	Teaching of field geology
Anaconda Copper Company	\$6,500	Research, analysis, field exploration
Rufus H. Carter, Jr.	\$ 150	NMGS-Student Registration Scholarship
C. E. Tranter, Exploration Manager Mobil Producing, Texas & TVM Inc.	\$2,000	Unrestricted
Amoco Foundation, Inc.	\$1,500	Unrestricted
Los Alamos Geological Society	\$ 100	Undergraduate scholarships/Fall Field Conferences of NMGS
Val R. Reese, Inc.	\$ 25	AAPG
Sandra C. Feldman, AAPG	\$ 375	AAPG Lecturers
Atlantic Richfield	\$1,250	Unrestricted
Exxon Education Foundation	\$3,000	Unrestricted
Continental Oil Co.	\$1,000	Unrestricted
Dr. James Lee Martin	\$ 100	Unrestricted
Sandia National Labs.	\$ 120	Matching grant tuition-graduate students
Phillips Uranium Corp.	\$ 500	Professional development
M. Hermann	\$ 10	Unrestricted
Mr. and Mrs. William K. Shepard	\$14,700	Topaz, 245.00 carats
Mr. David Gaskill	\$ 100	Unrestricted
Mr. William E. Devereux	\$ 50	Unrestricted

The Department of Geology would like to acknowledge the following people for their contributions to the 1981-1982 Annual Report preparation:

Dr. Barry Kues, Assistant Chairman

Ms. Elaine Newman, Department Secretary

Ms. Veronica Grady, Word Processing Co-ordinator

The Annual Report of the
Institute of Meteoritics
July 1, 1980 to June 30, 1982
Klaus Keil, Director

Institute of Meteoritics
Department of Geology
University of New Mexico
Albuquerque, New Mexico 87131

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Jim McKinley
 Scott McKinley
 Alfred Koehler
 Ed Scott
 Robert Trues
 Alan Rubin
 Klaus Kell
 Alice Zerkow
 Avery Filimon
 Jeff Taylor
 Audie Boghart
 Tammy Dickinson
 Cecelia Williams
 Paul Warren

2. Institute Staff

- Dr. Klaus Keil, Director and Professor of Geology
- Ms. Mary Fillmon, Secretary
- Dr. G.J. Taylor, Senior Research Scientist
- Dr. E.R.D. Scott, Research Scientist
- Mr. G.H. Conrad, Microprobe Specialist
- Dr. C.C. Allen, Postdoctoral Fellow
- Dr. A. Kracher, Postdoctoral Fellow
- Dr. A. Okada, Postdoctoral Fellow
- Dr. P. Warren, Postdoctoral Fellow
- Ms. J. Allen, Preparator
- Mr. J. Calhoun, Photographer
- Mr. J. Connolly, Consultant and Staff Scientist (part-time)
- Dr. W. Mansker, Consultant (part-time)
- Mr. S. Barker, Graduate Research Assistant
- Mr. A. Bischoff, Graduate Research Assistant
- Ms. T. Dickinson, Graduate Research Assistant
- Mr. M. Jercinovic, Graduate Research Assistant
- Mr. P. Maggiore, Graduate Research Assistant
- Mr. J. McKinley, Graduate Research Assistant
- Ms. S. McKinley, Graduate Research Assistant
- Mr. A. Rubin, Graduate Research Assistant
- Ms. C. Williams, Graduate Research Assistant
- Mr. K.M. Emanuel, Graduate Research Assistant (part-time)
- Mr. R. Hicks, Graduate Research Assistant (part-time)
- Ms. D. Arens, Undergraduate Research Assistant
- Ms. D. Dean, Undergraduate Research Assistant
- Ms. J. Dean, Undergraduate Research Assistant
- Mr. S. Johnson, Undergraduate Research Assistant
- Ms. S. Rhoades, Undergraduate Research Assistant
- Ms. R. Sandoval, Undergraduate Research Assistant

3. General Departmental Information

The Institute of Meteoritics, during the report period, continued to develop vigorously as one of the most active centers in the world devoted to research and teaching of Planetary Sciences, Cosmochemistry and Meteoritics. Major activities of the Institute concern research, teaching and public service.

3.1. Research

Research activities of staff and students of the Institute of Meteoritics cover a wide range of topics aimed at an understanding of the origin and early history of our solar system and the evolution of the planets. Our research has resulted in the publication of eighty-two (82) scientific articles in major national and international journals (see 5.4.1., #s 1-82, of this Report), as well as in the publication of twenty-six (26) abstracts of papers presented at national and international conferences (see 5.4.2, # 83-108). Furthermore, staff and students of the Institute presented the results of their research in the form of seventy-six (76) professional papers at national and international scientific meetings (see 5.4.3., #s 109-184). The extensive involvement of students in original research projects in the Institute of Meteoritics is particularly important for their education. Specifically, students were twenty-one (21) times senior authors on major scientific publications, twenty-two (22) times co-authors of major scientific articles; nine (9) times senior authors of abstracts; presented fourteen (14) professional talks before national and international meetings; and co-authored eleven (11) professional talks. Staff members of the Institute were on one-hundred-one (101) professional travel assignments in this country as well as abroad (see 5.2), and students were on eleven (11) such assignments. Note that the overwhelming majority of these travel assignments were on funds provided by outside funding agencies through grants and contracts

We were also successful in attracting many research grants and contracts to the Institute of Meteoritics in support of the research

activities of staff and students. During the report period, grants and contracts totalling \$1,604,974.00 were in effect (see 5.5 of this Report). Funding came from the National Aeronautics and Space Administration, the National Science Foundation, and Sandia National Laboratories.

Our research activities attracted many foreign and domestic researchers to the Institute of Meteoritics for the purpose of short-term study, research and lectures. These were:

1. Dr. Martin Prinz, Chairman, Department of Mineral Sciences, American Museum of Natural History, New York, N.Y. August 29, 1980.
2. Dr. Paul Pellas, Museu National d' Histoire Naturelle, Department of Mineralogy, Paris, France. September 8-10, 1980.
3. Dr. Mary Roberson, Department of Chemistry, Carnegie-Mellon University, Pittsburgh, Pa. September 10-11, 1980.
4. Professor Dr. Dieter Stoffler, Department of Mineralogy, Munster University, Munster, West-Germany. September 24-26, 1980.
5. Dr. J. Wood, Smithsonian Astrophysical Observatory, Cambridge, Mass. November 19-21, 1980.
6. Dr. R.S. Clarke Jr, Smithsonian Institution, U.S. National Museum, Washington, D.C. May 31-June 12, 1981.
7. Dr. S.J. Rajan, Jet Propulsion Laboratory, Pasadena, CA. Dr. Rajan presented a talk on "Carbonaceous chondrite breccias". July 7-8, 1981.
8. Dr. S. Reed, Dept. of Mineralogy and Petrology, Cambridge University, Cambridge, England. Dr. Reed gave a talk as part of our Brown Bag Seminar (see below). July 8-12, 1981.
9. Dr. W.G. Sears, Dept. of Geological Sciences, University of California, Los Angeles, CA. Dr. Sears presented a talk on "Thermoluminescence and meteorite classification". August 3-4, 1981.
10. Dr. R.V. Fodor, Dept. of Geosciences, North Carolina State University, Raleigh, N.C. Dr. Fodor did research in our electron microprobe laboratory. August 17-24, 1981.
11. Professor F. Freund, Dept. of Mineralogy, University of Cologne, Cologne, West-Germany. Dr. Freund presented a talk on "Atomic

and molecular hydrogen in minerals of deep-seated origin: Implications to mantle petrology". August 27-29, 1981.

12. Professor L. Grossman, Dept. of Geosciences, University of Chicago, Chicago, Illinois. Dr. Grossman was the Caswell Silver Distinguished Lecturer and presented 2 talks on the Allende meteorite, its light-colored inclusions, and nuclear isotopic anomalies.
13. Professor H.E. Suess, Dept. of Chemistry, University of California, La Jolla, CA. Dr. Suess was the Caswell Silver Distinguished Lecturer and presented 2 talks on "Terrestrial cosmogenic radiocarbon, solar activity, and the climate" and "Solar system abundances of the elements". Dec. 1-5, 1981.
14. Dr. A. Daphee, Los Alamos National Laboratory, Los Alamos, NM. Jan. 20, 1982.
15. Dr. P. Englert, Dept. of Nuclear Chemistry, University of Cologne, Cologne, West-Germany. Feb. 1, 1982.
16. Professor R. Coleman, Dept. of Geophysics and Planetary Sciences, University of California, Los Angeles, CA. Feb. 2, 1982.
17. Professor A. Binder, Mineralogical Institute, University of Munster, Munster, West-Germany. Dr. Binder presented a talk as part of our Brown Bag Seminar (see below). March 11-12, 1982.
18. Professor W. Muller, Mineralogical Institute, Technical University, Darmstadt, West-Germany. Dr. Muller presented a talk as part of our Brown Bag Seminar (see below).
19. Dr. R. Ostertag, Mineralogical Institute, University of Munster, Munster, West-Germany, . March 22-23, 1982.
20. Professor V. Szebehely, Mathematics Dept., University of Texas, Austin, Texas. March 23, 1982.
21. Professor J. Arndt, Mineralogical Institute, University of Tubingen, Tubingen, West-Germany. Dr. Arndt presented a talk as part of our Brown Bag Seminar (see below). March 24-26, 1982.
22. Dr. H. Taguchi, Nippon Steel Company, Tokyo, Japan. March 26-27, 1982.
23. Professor F. Freund, Mineralogical Institute, University of Cologne, Cologne, West-Germany. March 31-April 5, 1982.
24. Professor K. Runcorn, Geophysics Department, Newcastle upon Tyne, England. April 15-16, 1982.
25. Dr. S. Kissin, Dept. of Geology, Lakehead University, Thunder Bay, Ontario, Canada. Dr. Kissin presented one talk as part of

our Brown Bag Seminar (see below) and one additional talk on "Sphalerite geothermometry and cosmobarometry". April 28-30, 1982.

Research of staff and students of the Institute of Meteoritics as well as of visiting scholars was also presented in a series of Brown Bag Seminars, initiated by Dr. E.R.D. Scott. The following Brown Bag Seminars were held during the report period (student speakers are underlined).

1. M. Jercinovic (UNM): Subglacial volcanism in north-central British Columbia: Analog processes to formation of Martian soil. January 23, 1981.
2. L.D. Nealey (UNM): Geology, petrology and geochemistry of the Mount Baldy volcano, Arizona. Feb. 6, 1981.
3. Dr. A. Okada (UNM): The origin of the Norton County achondrite. April 10, 1981.
4. A. Rubin (UNM): History of the H chondrite parent body regolith. May 15, 1981.
5. Dr. R.S. Clarke, Jr. (Dept. of Mineral Sciences, Smithsonian Institution, Natl. Museum of Natural History, Washington, D.C.): Structural development in meteoritic metal. June 5, 1981.
6. Dr. C.C. Allen (UNM): What can we learn from impact melts? June 25, 1981.
7. Dr. S. Reed (Dept. of Mineralogy, Cambridge University, Cambridge, England): Adventures with an ion probe. July 10, 1981.
8. Dr. G.J. Taylor (UNM): Origin of the lunar crust. July 23, 1981.
9. P. Maggiore (UNM): Oscillatory zoning in birefringent garnets from metacarbonates, Emery Cauldron, Southwestern, New Mexico. Oct. 19, 1981.
10. Dr. P.H. Warren (UNM): Fieldwork in the Fongen-Hyllingen layered intrusion, Norway. Oct. 30, 1981.
11. Dr. K. Keil (UNM) Composition and origin of chondritic breccias. Nov. 5, 1981.
12. Dr. E.R.D. Scott (UNM): Primitive breccias among type 3 ordinary chondrites--Origin and relation to regolith breccias. Nov. 5, 1981.

13. A.E. Rubin (UNM): Petrologic insights into the fragmentation history of asteroids. Nov. 5, 1981.
14. Dr. G.J. Taylor (UNM): Petrologic comparison of lunar and meteoritic breccias. Nov. 5, 1981.
15. Addi Bischoff (Mineralogical Institute, University of Munster, West-Germany): Thermal metamorphism of feldspar clasts in impact melt rocks from Lappajarvi Crater, Finland. January 22, 1982.
16. Dr. A. Kracher (UNM): Influence of sulfur on the formation of iron meteorites. March 5, 1982.
17. Dr. C. Allen (UNM): Altered impact melt rock and breccia: Contribution to Martian soil. March 11, 1982.
18. Dr. C. Allen (UNM): Effects of target water on shock lithification. March 11, 1982.
19. A. Rubin (UNM): Microchondrules: Their occurrences in new kinds of type 3 chondrites and their bearing on the origin of chondrules. March 11, 1982.
20. Dr. E.R.D. Scott (UNM): Origins of ordinary and carbonaceous type 3 chondrites and their components. March 11, 1982.
21. Dr. G.J. Taylor (UNM): Structure and fragmentation of the parent asteroids of ordinary chondrites. March 11, 1982.
22. J. McKinley (UNM): Geologic history of the Apollo 16 region. March 11, 1982.
23. Dr. P.H. Warren (UNM): Graphic granite from the Moon. March 11, 1982.
24. Dr. A. Kracher (UNM): The role of sulfur in the evolution of iron meteorite parent melts. March 11, 1982.
25. Dr. A. Binder (Mineralogical Institute, University of Munster, West-Germany): Mare basalt magma genesis. March 12, 1982.
26. Dr. W. Muller (Mineralogical Institute, Technical University, Darmstadt, West-Germany): Transmission electron microscopy of the Leoville carbonaceous chondrite. March 23, 1982.
27. Dr. J. Arndt (Mineralogical Institute, University of Tubingen, West-Germany): Diaplectic glass and fusion-formed glass: A comparative study of shocked anorthosite from Manicouagan Crater, Canada. March 26, 1982.
28. Dr. P.H. Warren (UNM): Pristine non-mare rocks and the igneous differentiation of the Moon. March 30, 1982.

29. E.A. Sveum (UNM): Nucleosynthesis in supernovae. April 9, 1982.
30. R.B. Trumbell (UNM): Nature and origin of the iridium anomaly at the Cretaceous-Tertiary boundary. April 23, 1982.
31. S. McKinley (UNM): ALH A77156: An enstatite chondrite (E4) from Antarctica. April 27, 1982.
32. Dr. S. Kissin (Dept. of Geology, Lakehead University, Thunder Bay, Ontario, Canada): Sulfide minerals in type IAB iron meteorites. April 28, 1982.
33. J. McKinley (UNM): The thermal history of meteoritic chondrules. April 30, 1982.

Modern research in the forefront of sciences depends critically upon the availability of state-of-the-art equipment. This equipment is extremely expensive, and funding agencies are besieged by requests from outstanding individuals from top Universities from across the U.S. Thus, competition for equipment dollars is extremely tough. Institute of Meteoritics personnel have been very successful in bringing to the Department of Geology and Institute of Meteoritics major pieces of equipment via proposals written to NASA and NSF. Our success in obtaining outside funding for major scientific equipment in these difficult times is an expression of the excellent reputation the Institute of Meteoritics and its staff and students enjoy amongst our peers on a national and international scale. However, our success was only possible because farsighted State of New Mexico Legislators approved the pioneering issue of State Bonds solely designated for the purchase of research equipment. We have made use of our allocation of Bond moneys as matching funds to generate additional outside funds, as follows:

1. Scanning electron microscope. Grant money from NASA, \$45,000.00. State of New Mexico Bond issue matching funds, \$40,000. Total purchase price \$95,000.00.

2. Fully-automated electron microprobe. Grant money from the National Science Foundation, \$180,000.00. State of New Mexico Bond issue matching funds, \$250,000.00. Total purchase price, \$430,000.00.

Research in the Institute of Meteoritics, during the report period, concentrated in four major areas, all of which are heavily supported by outside funds. These deal with the origin of the solar system and evolution of meteorite parent bodies (see 3.1.1.); the origin and evolution of the lunar crust (see 3.1.2.); nature and origin of the soil that covers much of the surface of the planet Mars (see 3.1.3); and the disposal of high-level nuclear wastes in igneous rocks (see 3.1.4.).

3.1.1. Origin and Evolution of Solids in the Solar System and the History of Meteorite Parent Bodies (Asteroids). (NASA-supported)

Meteorites are rock samples left over from the time of formation of our solar system and, in fact, some may contain materials that pre-date our solar system. Thus, meteorites are unique and scientifically most valuable specimens that allow us to decipher the origin and evolution of solids in the early solar system and the history of the meteorite parent bodies, the asteroids. Our aims in studying primitive components in meteorites, specifically chondrites, are to learn more about the earliest stages in the formation of planets from dust and gas, and to understand how these components accreted into planetesimals. By studying metamorphosed and brecciated meteorites and those that formed from

melts by igneous processes, we hope to learn more about the internal and external processes that subsequently affected these planetesimals.

During the report period, our work concerned four major areas of meteorite research, namely primitive components in type 3 chondrites; the formation of chondritic breccias and the nature of chondrite parent bodies; the origin and evolution of the achondrite parent bodies; and the classification and properties of Antarctic meteorites.

Primitive components in type 3 chondrites are less affected by metamorphism and secondary alteration than any other meteorite type and, thus, offer the best opportunity for understanding the origin of chondrules, matrix material, metallic Fe,Ni, Ca-Al-rich inclusions, and graphite-magnetite assemblages. Our major findings are: Primitive materials in carbonaceous and ordinary type 3 chondrites are very similar, suggesting that they formed under similar conditions. Furthermore, chondrules (millimeter-sized silicate spherules) formed by melting of pre-existing dust similar to silicate matrix material, probably by shock wave heating in the solar nebula. The dust grains were mineralogically sorted before aggregating into millimeter-sized, chondrule-precursor dustballs, and the latter were size-sorted prior to melting. Clearly, most chondrules did not form by impact on parent bodies. Finally, our discovery of clasts representing new chondrite types suggests that many other chondrite types may exist with different chondrule abundances, size-ranges, and proportions of textural types different from known groups.

Studies of chondritic breccias provide data on where breccias formed, the identification and origin of their exotic and indigenous ingredients, how and when they were assembled, and the structure of

their parent bodies. Our major findings include the identification of some breccias that may have formed during accretion of their parent bodies. We further find additional evidence that the onion-shell model for the structure of H- and L-group chondrite parent asteroids (most reheated type 6 chondrites in the core, followed by shells of the less reheated types 5, 4 and 3) is erroneous. Instead the different types were heated in kilometer-sized objects prior to assemblage into larger parent asteroids. Finally, the H parent asteroid must have been disrupted by large impacts and the fragments reassembled due to gravitational pull, so that this asteroid became a rubble pile of reassembled material.

Achondritic meteorites are igneous rocks that formed by melting and differentiation of parent asteroids. The Norton County achondrite parent object, for example, underwent a period of melting followed by fractional crystallization and subsequent brecciation that may have involved break-up and reassembly of the entire asteroid. We further found that clasts in achondrite breccias such as the Kapoeta howardite contain valuable information as to the degree of differentiation and the diversity of the rocks on the mostly highly-evolved achondrite parent asteroid, the so-called eucrite parent body.

Finally, study of a suite of 145 Antarctic meteorites collected on the ice at Allan Hills yielded many exciting, rare new meteorites whose study has resulted in major discoveries, for example, the finding of the primitive graphite-magnetite matrices in certain type 3 chondrites.

3.1.2. Origin and Evolution of the Lunar Crust. (NASA-supported)

Staff and students of the Institute of Meteoritics have been involved in the study of returned lunar samples since the first Apollo landing on the Moon in 1969. We have worked extensively on thousands of samples from all Apollo Missions (Apollo 11, 12, 14, 15, 16, 17), as well as on samples returned by the unmanned Soviet lunar probes, Luna 16, 20 and 24. During the report period, our work has focussed on the origin of the lunar crust and the geology of the Apollo 16 region.

Rocks of the ancient lunar crust, as they existed 4.5 billion years ago, have largely been destroyed by meteorite impacts which caused large-scale melting, brecciation and mixing. Only a few "pristine" (i.e., unadulterated and largely unaltered by impact) rocks remain, but they are of great significance because they allow us to decipher the very early history of the crust of the Moon. Accordingly, we expended considerable effort in the search of such pristine rocks which largely occur as clasts in breccias. We were very successful in this endeavour and have discovered many new pristine samples from the Apollo 14 as well as other sites. Among these pristine rocks are two comparatively large clasts of granite that are 10 and 1000 times larger than any other pristine lunar granites previously described. Granites are very SiO₂-rich, highly differentiated rocks that are abundant on the Earth (most of the continents are made of "granitic" rocks), whereas they are exceedingly rare on the Moon. Their study sheds light on the nature of the crustal formation processes of the Moon. We have further discovered a new, pristine lunar rock type which we term alkali-rich anorthosite. The discovery of these rocks lends additional support to the genetically highly significant compositional differences of lunar highlands rocks as a function of longitude, which we have previously described. We have

also studied late-stage differentiates from the Fongen-Hyllingen layered igneous complex in Norway which, in many respects, appears to offer a terrestrial analog to certain lunar highland rocks. We are also taking a new look at the bulk composition of the Moon which may be the most important parameter to determine if we are to deduce the origin of the Moon. Specifically, we are addressing the question whether the moon is indeed enriched by a factor of 4 to 10 over solar abundances in refractory (i.e., high boiling point) elements, as is widely held. We have reason to question this hypothesis.

We have also been trying to unravel the very complex geologic history of the Apollo 16 landing site. The Apollo 16 site is especially significant because it is the only certified lunar highlands site that was visited by Apollo missions. An essential step in understanding the geologic history of this site is to determine the petrologic nature of the Descartes Mountains and the Cayley Plains, by detailed study of all samples available. We suggest that the Descartes Mountains are underlain by feldspathic fragmental breccias and that the Cayley Plains consist dominantly of impact melt breccias. Dimict breccias (those consisting of 2 lithologies) may underlie the Cayley. We have further discovered that numerous individual melt sheets are represented among Apollo 16 samples, but some discrete impact events were also recognized.

3.1.3. Chemical Weathering on Mars: Theoretical and Terrestrial Analog Studies of Possible Processes and Products. (NASA-supported)

Personnel of the Institute of Meteoritics, since 1971, had been involved in the design and testing of the X-ray fluorescence

spectrometer (XRF) flown on the 2 Viking Landing Spacecraft which landed on the surface of Mars in 1976. We have been members of the Viking Flight Team and participated through all phases of this exciting mission, including the data retrieval, analysis and interpretation, until the end of the flight research program in 1979.

The XRF data provided us with a good understanding of the bulk composition of the soil of Mars, but neither this instrument nor any others on board gave direct data as to the mineralogical make-up of the soil. Furthermore, we showed through thermodynamic calculations that the iron-rich clays which were inferred from the XRF data to make-up the major portion of the Martian soil, would not form under present-day Martian temperature conditions and H_2O-CO_2 pressures. We therefore initiated an extensive theoretical and terrestrial analog research program to unravel the origin of the clay-bearing soil on Mars. During the report period we made major progress in this effort and concluded that 2 processes are responsible for the formation of clay-bearing soils on Mars, namely subglacial volcanic eruptions and large impacts, both associated with the production of hydrothermal aqueous solutions.

Subglacial volcanic eruptions are those which occur into glaciers and frozen ground (permafrost). Gigantic volcanoes and ground-ice are very common on Mars. We hypothesize that on Mars, basaltic volcanic lava erupting into permafrost cooled (quenched) very fast, thus forming basaltic glass. Hot water produced during the eruption readily converted the metastable glass into clay-like minerals, and wind erosion distributed the fine-grained clays as a blanket across much of the surface of the planet. Formation of clay (specifically, palagonite) during volcanic eruptions into ice on the earth (e.g., in Iceland, British

Columbia, etc) were common during the Earth's ice age, and we studied terrestrial materials in great detail to verify what might have happened on Mars.

Although we concluded that alteration of glass produced by sub-glacial volcanic eruptions was probably the most important process of forming clay on Mars, we have also studied other terrestrial analogs first proposed by Newsom of the University of Arizona for the origin of clays, namely alteration of impact-produced melt rocks and breccia piles by impact-generated, hot water. Mars has been bombarded by large meteorites since it formed. These impacts melted and crushed rocks and also melted ground ice to form hot water. These hydrothermal aqueous solutions are hypothesized to have converted minerals and glasses into water-bearing clays. We found during extensive studies that most large terrestrial impact craters contain melt rocks that are partially converted into clay. This suggests that this process may have been important, albeit less so than sub-glacial volcanic eruption, for the formation of clays on Mars.

3.1.4. Geological Aspects of the Disposal of High-level Nuclear Wastes in Igneous Rocks. (Sandia-supported).

Because of the relatively short-lived stabilities of man-made containers and even various types of high-level nuclear waste forms, geologic media (i.e., rock formations) of great geological stability will have to serve as the long-range barriers between radioactive wastes and the biosphere. Thus, detailed studies of the properties of potentially suitable geologic media for the disposal of high-level nuclear wastes are

of great scientific and practical value. During the report period we have been involved in the study of silicic volcanic tuffs from the Nevada Test Site (NTS), through contract with Sandia National Laboratories. Rocks on NTS are being explored by a number of institutions for their potential as repositories for high-level nuclear wastes. Our studies have been theoretical as well as experimental and are basically in support of in-house Sandia physical properties measurements, including heater field tests. We have carried out extensive literature surveys covering all pertinent literature regarding geological and geophysical studies in the broadest sense of the NTS. We have also carried out literature studies of relevant mineral stabilities, particularly for zeolites and various forms of SiO_2 . Extensive mineralogic-petrographic-chemical studies have been carried out of rocks from Tunnel Bed 5 and the Grouse Canyon Member in G-tunnel on NTS, involving optical and electron microscopy, electron microprobe analysis, X-ray diffraction, and major and trace element chemical analysis.

3.2 Teaching

Teaching activities of the Institute of Meteoritics staff concerned formal classes in Physical Geology (101L), Earth Resources (211), Mineralogy I (311L), Petrography of Opaque Ores (512L), Meteoritics and Cosmochemistry (513L), and Electron Microprobe Analysis and Scanning Electron Microscopy (518L). In addition, many arranged courses were given to certify Department of Geology and Institute of Meteoritics faculty, staff and students as operators of the electron microprobe and the scanning electron microscope. A great deal of emphasis was given to

the direction and supervision of graduate student research projects, problems courses, theses and dissertations, as well as the publication of these research results (see 5.4 of this Report). Two students, S.E. Barker and Susan J. Wentworth, received their M.S. degrees in the Department of Geology with research having been carried out in part (S.E.B.) or totally (S.J.W.) in the Institute of Meteoritics. The theses topics were:

1. S.E. Barker: Mineral chemistry and crystallization history of basalts from holes 483, 483B and 485A, DSDP Leg 65, East Pacific Rise, Gulf of California.
2. Susan J. Wentworth: The petrology of light-colored loose fragments from the Apollo 17 deep drill core.

Dr. James L. Gooding (Ph.D UNM, 1979) did his dissertation in the Institute of Meteoritics and received his Ph.D. in the Department of Geology. Dr. Gooding was the 1982 recipient of the Tom L. Popejoy Award for the best dissertation in the sciences at UNM for the period from 1979-1981. His dissertation is entitled "Petrogenetic properties of chondrules in unequilibrated H-, L-, and LL-group chondritic meteorites".

During the report period, the following graduate and undergraduate students did their research in the Institute of Meteoritics and were supported by Grant and Contract funds generated by Institute of Meteoritics staff (source of support in parenthesis).

Graduate students

1. S. Barker (NASA)
2. A. Bischoff (NASA)
3. J. Connolly (Sandia)
4. T. Dickinson (NASA)
5. M. Jercinovic (NASA)
6. P. Maggiore (NASA)
7. J. McKinley (NASA)
8. S. McKinley (NASA)

- 9. A. Rubin (NASA)
- 10. C. Williams (NASA)
- 11. K.M. Emanuel (Sandia, part-time)
- 12. R. Hicks (Sandia, part-time)

Undergraduate students

- 1. D. Arens (NASA)
- 2. J. Calhoun (NASA)
- 3. D. Dean (NASA)
- 4. J. Dean (NASA)
- 5. S. Johnson (NASA)
- 6. R. Sandoval (NASA)
- 7. S. Rhoades (NASA)

During the report period, a number of post-doctoral fellows were in residence in the Institute of Meteoritics for advanced training and research. These were:

- 1. Dr. C. C. Allen (Ph.D., Univ. of Arizona) (NASA)
- 2. Dr. A. Kracher (Ph.D., Vienna, Austria) (NASA)
- 3. Dr. A. Okada (Ph.D., Tokyo, Japan) (NASA)
- 4. Dr. P. Warren (Ph.D., UCLA) (NASA)

3.3. Public Service

Public service activities of members of the staff of the Institute of Meteoritics as well as students are largely devoted to maintenance and enlargement of the Institute's outstanding collection of meteorites, and making research specimens available to Institute members as well as colleagues in the USA and abroad. Many special, private showings of the Collection, the Museum, as well as lunar samples were given, frequently on weekends and after-duty hours. Furthermore, many public lectures on meteorites, lunar geology, high-level nuclear waste disposal were given in the State of New Mexico, the USA and abroad. Finally, many rocks suspected to be of meteoritic origin and brought to the Institute by the public were analyzed without charge, and major

efforts were made to educate the interested public in the recognition and recovery of meteorites (see 5.9 of this Report).

Considerable time and effort was devoted by staff and students of the Institute to the design of an exhibit at the 1981 New Mexico State Fair. The Department of Geology and Institute of Meteoritics were the featured UNM Departments at the Fair, and our exhibit was on "Volcanism in our solar system". This was a very timely show in view of the recent eruption of Mt. St. Helens and dealt with beautifully illustrated examples of volcanism on the Earth, meteorite parent bodies (asteroids), the Earth's Moon, Mars, Mercury, Venus, and Io (one of the moons of Jupiter). The exhibit was a great success and was visited by many tens of thousands of citizens.

4. Significant Plans and Recommendations.

One important and urgent need for the Institute is the addition of a full-time, permanently employed, Ph.D. level Research Scientist. The present permanent scientific staff of the Institute consists only of the Director (9 months), the Senior Research Scientist (80% time) and one Research Scientist (50% time). All other scientific personnel is on contract and grant salaries. The addition of a second permanent Research Scientist to the staff would allow us to increase our involvement in sponsored research and the cost would ultimately be off-set by increased outside funding that a new person could attract. Specifically, we would like to get involved on a large scale in the study of oceanic basalts drilled from the ocean floor, a project that the present scientific personnel could not do justice to, without neglecting other

duties. Consideration of an additional Research Scientist (Ph.D.) for the Institute of Meteoritics is therefore urgently requested.

5. Composite of Individual Biographical Supplements

5.1. Advanced Studies

J. Connolly

1. Completed requirements for M.S. degree in Geology at UNM with thesis entitled "Geology of the Precambrian rocks of Tijeras Canyon area, Bernalillo County, New Mexico," August, 1981.

M. Jercinovic

1. Continued progress toward M.S. degree in Geology with research in Institute of Meteoritics on "Subglacial volcanism in north-central British Columbia: analog process to the formation of the Martian regolith".

J. McKinley

1. Continued progress towards M.S. degree in Geology with research in Institute of Meteoritics on "Petrography and chemistry of rocks from Apollo 16, Stations 4 and 5".

S. McKinley

1. Continued progress towards M.S. degree in Geology with research in Institute of Meteoritics on "Mineralogic-petrographic study of 145 meteorites from the 1977 collection from Allan Hills, Antarctica".

A. Rubin

1. Passed Ph.D. comprehensive examination, April 17, 1981.
2. Continued progress towards Ph.D. degree in Geology with research in Institute of Meteoritics on "Brecciated stone meteorites and the histories of their parent bodies". Completed writing of dissertation.

5.2. Sabbaticals, Leaves of Absence, Summer Teaching Elsewhere, Travel, etc.

Klaus Keil

1. Houston, Texas. Served on Cometary Mission Review Board, NASA L.B. Johnson Space Center. August 3, 1980.

2. Nevada Test Site. Field inspections for exploration of tuff sites for high-level nuclear waste disposal. August 20-22, 1980.
3. La Jolla, California. Attended Annual Meeting of the Meteoritical Society at the University of California; presented one paper and co-authored five others. August 2-6, 1980.
4. La Jolla, California. Attended planning meeting for workshop on comparison of lunar and meteoritic breccias, University of California. August 6, 1980.
5. Washington, D.C. Attended meeting of the joint NSF-NASA Antarctic Meteorite Working Group, Smithsonian Institution. September 12-15, 1980.
6. Barraboo, Wisconsin. Attended Edison Foundation Meeting and presented invited talk, University of Wisconsin. October 3-4, 1980.
7. Houston, Texas. Chaired meeting of Lunar and Planetary Science Council, Lunar and Planetary Institute. October 23-24, 1980.
8. Nevada Test Site. Field inspections for exploration of tuff sites for high-level nuclear waste disposal. November 7-8, 1980.
9. Raleigh, North Carolina. Reviewed Geology Department at North Carolina State University. December 3-5, 1980.
10. Sabbatical leave of absence, Spring semester, 1981. (Jan. 1-May 15, 1981).
11. Houston, Texas. Served on Program Committee for 12th Lunar and Planetary Science Conference, Lunar and Planetary Institute. January 29 - February 1, 1981.
12. Detroit, Michigan. Attended Edison Foundation Meeting and presented invited talk. February 10-11, 1981.
13. Pasadena, California. Served as Distinguished Visiting Scientist, Jet Propulsion Laboratory. Feb. 16-28, 1981. Worked on resource and exploitation potential of asteroids and presented invited talk.
14. Sao Paulo, Brazil. Served as Distinguished Visiting Professor, Institute of Astronomy and Geophysics, University of Sao Paulo, presented a series of 12 lectures on the relationship of meteorites to comets and asteroids, and one invited talk. March 8-28, 1981.
15. Rio de Janeiro, Brazil. Carried out research on Brazilian meteorites and presented two invited talks at the Brazilian National Astronomical Observatory and at the Brazilian Center for Research in Physics. March 28-April 4, 1981.

16. Houston, Texas. Attended meeting of the joint NSF-NASA Antarctic Meteorite Working Group, Lunar and Planetary Institute. April 10-14, 1981.
17. Mainz, West-Germany. Carried out and initiated new research on five meteorites, and completed writing of joint paper on the Johnstown pyroxenite, Max-Planck-Institute for Chemistry. April 23-May 9, 1981.
18. Munster, West-Germany. Visited Departments of Chemistry and Mineralogy to discuss joint research and exchange of graduate students (2 Munster students are now working at UNM) as well as presented talk. April 29-30, 1981.
19. Cologne, West-Germany, Visited Department of Mineralogy and Petrology and presented talk. May 7, 1981.
20. Madrid, Spain. Initiated joint research program on Spanish meteorites between Institute of Meteoritics, UNM, and the National Museum of Natural History (Madrid), the Geological Institute of the Supreme Council of Scientific Investigations (Madrid), and the Geological Museum (Barcelona); obtained meteorite specimens for research and presented talk. May 10-15, 1981.
21. Saarbrucken, West-Germany. Presented two talks at the Department of Inorganic Chemistry and Mineralogy, University of Saarbrucken. May 17-19, 1981.
22. Paris, France. Initiated joint research and completed joint paper on the meteorite Parambu, Museum National d'Histoire Naturelle. May 20-25, 1981.
23. Taos, New Mexico. Gave invited lecture at German Summer School, Univ. of New Mexico, Dept. of Modern and Classical Languages. July 7-8, 1981.
24. Snowmass, Colorado. Participated in workshop on "Spacewatch": The effects of asteroidal impacts on the earth". July 12-17, 1981.
25. Baltimore, Maryland. Participated in review panel on "Future Instrumentation for Space Flight", Goddard Space Flight Center. July 27-30, 1981.
26. Berne, Switzerland. Attended Meteoritical Society Meeting, chaired session, presented 3 papers and co-authored 6 papers. August 17-22, 1981.
27. Pasadena, California. Participated in review of NASA programs, California Institute of Technology. Sept. 3, 1981,
28. Washington, D.C. Participated in meeting of Antarctic Meteorite Working Group, NASA-NSF, Smithsonian Institution. Sept. 12-15, 1981.

29. Houston, Texas. Attended the workshop on "Comparison of meteoritic and lunar breccias", presented 1 invited talk, and co-authored 1 paper. Lunar and Planetary Institute. Nov. 9-11, 1981.
30. Los Lunas, New Mexico. Presented talk at Solomon Middle School. Dec. 8, 1981.
31. Farmington, New Mexico. Presented talk before Farmington Geological Society. Dec. 10, 1981.
32. Boston, Mass. Tested new electron microprobe at Jeol. Jan. 13-17, 1982.
33. Beaumont, Texas. Presented talk at the meeting of the Edison Foundation. Jan. 25-26, 1982.
34. Houston, Texas. Served in Program Committee of the Lunar and Planetary Science Conference, Lunar and Planetary Institute. Jan. 27-29, 1982.
35. Los Angeles, California. Tested new electron microprobe at ARL. Feb. 3-7, 1982.
36. Detroit, Michigan. Presented talk at the meeting of the Edison Foundation. Feb. 10-11, 1982.
37. Houston, Texas. Chaired meeting of the Lunar and Planetary Science Council, Lunar and Planetary Institute. Feb. 25-27, 1982.
38. Houston, Texas. Chaired meeting of the Lunar and Planetary Science Council, Lunar and Planetary Institute. March 13-14, 1982.
39. Houston, Texas. Attended Lunar and Planetary Science Conference at the Johnson Space Center, co-authored 7 talks and chaired session. March 15-19, 1982.
40. Houston, Texas. Served on NASA-NSF Antarctic Meteorite Working Group, Lunar and Planetary Institute. April 16-18, 1982.
41. Houston, Texas. Participated in the Conference on Antarctic Meteorites and Glaciology, Lunar and Planetary Institute, and presented 2 invited talks. April 19-21, 1982.
42. Meteor Crater, Arizona. Led field trip to Meteor Crater, Arizona; Astrogeology Branch, U.S. Geological Survey, Flagstaff, Arizona; and Sunset Crater. Arizona May 2-3, 1982.
43. Bozeman, Montana, Attended Rocky Mountain Sectional Meeting, Geological Society of America, and organized 1 day symposium on the disposal of high-level nuclear waste in igneous rocks. May 6-8, 1982.

44. Taos, New Mexico. Presented invited talk at the German Summer School, Univ. of New Mexico, Dept. of Modern and Classical Languages. June 24-25, 1982.

G. J. Taylor

1. Houston, Texas. Attended meeting of Lunar and Planetary Review Panel, Lunar and Planetary Institute. September 27-October 2, 1980.
2. Houston, Texas. Attended meeting of Lunar and Planetary Review Panel, Lunar and Planetary Institute. October 25-November 1, 1980.
3. Houston, Texas. Attended workshop on Apollo 16. Lunar and Planetary Institute. November 13-15, 1980.
4. Houston, Texas. Attended meeting of Lunar and Planetary Sample Team, Johnson Space Center. November 24-28, 1980.
5. Houston, Texas. Attended meeting of Lunar and Planetary Sample Team, Johnson Space Center. March 12-15, 1981.
6. Houston, Texas. Attended 12th Lunar and Planetary Science Conf., Johnson Space Center, and gave talk. March 16-20, 1981.
7. Houston, Texas. Attended meeting of Lunar and Planetary Review Panel, Lunar and Planetary Institute. March 20-22, 1981.
8. Houston, Texas. Attended meeting of Lunar and Planetary Sample Team, Lunar and Planetary Institute. May 14-17, 1982.
9. Billings, Montana. Attended Workshop on Magmatic Processes in Early Planetary Crusts, and presented invited paper. Aug. 3-8, 1981.
10. Houston, Texas. Attended meeting of Group chiefs of the Lunar and Planetary Review Panel and a meeting of the Lunar and Planetary Sample Team at the Lunar and Planetary Institute. Aug. 27-31, 1981.
11. Houston, Texas. Attended meeting of the Lunar and Planetary Review Panel at the Lunar and Planetary Institute. Sept. 28-Oct. 3, 1981.
12. Houston, Texas. Attended meeting of the Lunar and Planetary Review Panel at the Lunar and Planetary Institute. Oct. 26-30, 1981.
13. Houston, Texas. Organized and attended Workshop on Lunar Breccias and Soils and their Meteorite Analogs and presented invited paper. Nov. 9-11, 1981.

14. Houston, Texas. Attended meeting of the Lunar and Planetary Sample Team of the Lunar and Planetary Institute. Nov. 9-11, 1981.
15. Washington, D.C. Made presentation as a Group Chief of the Lunar and Planetary Review Panel to officials at NASA Headquarters, Jan. 18, 1982, and examined meteorite specimens at the Smithsonian Institution.
16. Houston, Texas. Attended meeting of the Steering Committee organizing the Workshop on Pristine Highlands Rocks and the Early History of the Moon, and a meeting of the Lunar and Planetary Sample Team at the Lunar and Planetary Institute. Feb. 24-28, 1982.
17. Houston, Texas. Attended and gave talk at the 13th Lunar and Planetary Science Conference, Johnson Space Center. March 15-19, 1982.
18. Houston, Texas. Attended meeting of the Lunar and Planetary Sample Team at the Lunar and Planetary Institute. May 13-15, 1982.
19. Washington, D.C. Gave presentation as a member of the Lunar and Planetary Sample Team to NASA officials, and examined meteorites at Smithsonian Institution. June 10-11, 1982.

E. R. D. Scott

1. La Jolla, California. Attended Annual Meeting of the Meteoritical Society, Univ. of California, and presented one talk. September 3-5, 1980.
2. Houston, Texas. Attended Lunar and Planetary Science Conf., L.B. Johnson Space Center, and presented one talk. March 16-20, 1981.
3. Bern, Switzerland. Attended Meteoritical Society Annual Meeting and presented 2 talks. Aug. 17-21, 1981.
4. Cambridge University, U.K. Discussed collaborative research in Dept. of Earth Sciences. Sept. 1, 1981.
5. London, U.K. Studied meteorite collection at British Museum and arranged for loan of specimens. Sept. 3, 1981.
6. Houston, Texas. Attended Workshop on Lunar Breccias and Soils and their Meteoritic Analogs, Lunar and Planetary Institute, presented one talk and acted as discussion leader and summarizer. Nov. 9-11, 1981.

7. Houston, Texas. Attended Lunar and Planetary Science Conference, Johnson Space Center and gave one talk. March 15-19, 1982.
8. Pasadena, California. Discussions on collaborative research with scientists at the Jet Propulsion Laboratory. Apr. 30, 1982.

C. C. Allen

1. British Columbia, Canada. Field geology of subglacial volcanoes. July-August, 1980.
2. Tucson, Arizona. Attended Division of Planetary Science Meeting, Amer. Astronomical Society and presented one talk. October 14-17, 1980.
3. Socorro, New Mexico. Attended Second New Mexico Minerals Symp. and presented one talk. October 25, 1980.
4. Houston, Texas. Attended 12th Lunar and Planetary Science Conf., L.B. Johnson Space Center, and presented one talk. March 16-20, 1981.
5. Berne, Switzerland. Attended Meteoritical Society Meeting and presented 1 talk. Aug. 17-21, 1981.
6. Pasadena, California. Attended 3rd International Colloquium on Mars and presented 1 talk. Aug. 31-Sept. 2, 1981.
7. Houston, Texas. Attended Lunar and Planetary Science Conference, Johnson Space Center, presented 2 talks and chaired session. March 15-19, 1982.
8. Richland, Washington. Visited Rockwell Hanford Operations Facilities and presented 1 talk. April 19-21, 1982.
9. Eugene, Oregon. Visited Department of Geology, Univ. of Oregon, and presented 1 talk. May 10-12, 1982.
10. Berlin, West-Germany. Attended 5th International Symposium on the Scientific Basis for Radioactive Waste Disposal, and presented 1 talk. June 7-10, 1982.

A. Kracher

1. Houston, Texas. Attended Lunar and Planetary Science Conference, Johnson Space Center, and presented 1 talk. March 16-20, 1982.
2. Taos, New Mexico. Presented invited talk at German Summer School, Univ. of New Mexico, Dept. of Modern and Classical Languages. June 17, 1982.

A. Okada

1. La Jolla, California. Attended Annual Meeting of the Meteoritical Society, University of California, and presented one talk. September 2-6, 1980.
2. Houston, Texas. Attended Lunar and Planetary Science Conference, Johnson Space Center and co-authored two talks. March 16-20, 1981.

P. H. Warren

1. Los Angeles, California. Visited Department of Chemistry, University of California at Los Angeles, to prepare lunar samples for neutron activation analysis, and to discuss forthcoming papers with J.T. Wasson. August 26-September 1 and September 6-17, 1980.
2. La Jolla, California. Attended Meteoritical Society Meeting at University of California, San Diego, presented one talk. September 2-6, 1980.
3. Houston, Texas. Attended Conference on Multi-ring Basins and Workshop on Apollo 16, both at the Lunar and Planetary Institute, and studied lunar samples in the Lunar Receiving Laboratory. Nov. 2-16, 1980.
4. Los Angeles, California. Visited Dept. of Chemistry, University of California at Los Angeles, to prepare lunar samples for neutron activation analysis, and to discuss forthcoming papers with J.T. Wasson. March 12-15, 1981.
5. Houston, Texas. Attended Lunar and Planetary Science Conference at L.B. Johnson Space Center, presented one talk. March 15-20, 1981.
6. Los Angeles, California. Visited Dept. of Chemistry, University of California at Los Angeles, to prepare lunar samples for neutron activation analysis. July 2-21, 1981.
7. Billings, Montana. Attended Workshop on Magmatic Processes of Early Planetary Crusts, presented 1 invited lecture. August 3-6, 1981.
8. Berne, Switzerland. Attended 44th Annual Meeting of the Meteoritical Society, presented 1 talk. August 17-21, 1981.
9. Tydal, Norway. Collected samples at the Fongen-Hyllingen layered intrusion. August 23-28, 1981.
10. Moscow, U.S.S.R. Visited the V.I. Vernadsky Institute (storage place for the Russian lunar samples). September 2, 1981.

11. Warrenton, Virginia. Attended Early Crustal Genesis Conference, presented 1 invited lecture. Nov. 12-17, 1981.
12. Los Angeles, California. Visited Dept. of Chemistry, University of California at Los Angeles, to prepare lunar samples for neutron activation analysis. Feb. 8-10, 1982.
13. Houston, Texas. Attended Lunar and Planetary Science Conference at L.B. Johnson Space Center, presented 1 talk and studied lunar samples at curatorial building. March 14-27, 1982.

J. R. Connolly

1. Nevada Test Site. Led field trip to Yucca Mountain for Sandia National Laboratory personnel. August 20-22, 1980.
2. Nevada Test Site. Collected samples for study in U12g Tunnel. November 6-7, 1980 and March 24-25, 1981.
3. Bozeman, Montana. Attended Geological Society of America Rocky Mountain Sectional Meeting at Montana State University and presented 1 talk. May 7-8, 1982.

M. Jercinovic

1. British Columbia, Canada. Field geology of subglacial volcanoes. July-August, 1980.
2. Houston, Texas. Joint work with Dr. F. Horz at NASA Johnson Space Center on impact studies of rock powders. May 18-22, 1981.
3. Aspen, Colorado. Participated in field trip for "Friends of the Pleistocene". Subject: Local glacial history and Pleistocene soil development. Oct. 16-18, 1981.

J. McKinley

1. Houston, Texas. Attended 12th Lunar and Planetary Science Conf., NASA Johnson Space Center, and presented one talk. March 16-20, 1981.
2. Berne, Switzerland, Attended Meteoritical Society Meeting and presented 1 talk. August 17-21, 1981.
3. Houston, Texas. Attended 13th Lunar and Planetary Science Conference, Johnson Space Center, and gave 1 talk. March 15-19, 1982.

S. G. McKinley

1. Berne, Switzerland. Attended Meteoritical Society Meeting and presented 1 talk. Aug. 17-21, 1981.

A. E. Rubin

1. La Jolla, California. Attended Annual Meeting of the Meteoritical Society, Univ. of California, and presented two talks. September 2-6, 1980.
2. Houston, Texas. Attended Lunar and Planetary Science Conference, Johnson Space Center, and presented one talk. March 16-20, 1981.
3. Houston, Texas. Attended workshop on "Lunar breccias and soils and their meteoritic analogs", Lunar and Planetary Institute, and presented 1 talk. Nov. 9-11, 1981.
4. Houston, Texas. Attended 13th Lunar and Planetary Science Conference, Johnson Space Center, and presented 1 talk. March 15-19, 1982.

5.3. New Scholastic Honors, Fellowships, etc.Klaus Keil

1. University of New Mexico Annual Research Lecturer for 1981.
2. Appointed Distinguished Visiting Scientist for 1981, Jet Propulsion Laboratory, Pasadena, California.
3. Appointed Distinguished Visiting Professor for 1981, Department of Astronomy and Geophysics, University of Sao Paulo, Sao Paulo, Brazil.
4. Member, Program Committee, Lunar and Planetary Science Conference, Houston, Texas. 1981-1983.
5. Member, Advisory Committee on Comparative Planetology, International Union of Geological Sciences. 1982-1985.
6. Associate Editor, Journal of Geophysical Research, American Geophysical Union. 1982-1985.

E. R. D. Scott

1. Member, Leonard Medal Committee, Meteoritical Society.

C. C. Allen

1. Was offered and declined National Research Council Post-doctoral Fellowship at NASA Johnson Space Center for fiscal year 1982.
2. Recipient of travel grant from 5th International Symposium on the Scientific Basis for Radioactive Waste Management, to attend, Berlin, West-Germany meeting.

P. H. Warren

1. Elected to Full Membership, Mineralogical Society of America.
2. Selected for inclusion in "American Men and Women of Science"

J. L. Gooding

1. Recipient of the 1982 T. Popejoy Award for the best Ph.D. dissertation at UNM.

M. J. Jercinovic

1. Student Member, Meteoritical Society.
2. Student Member, Mineralogical Society of America.
3. Received Albuquerque Gem and Mineral Club Scholarship through Department of Geology, UNM. Spring, 1982.

P. Maggiore

1. Received \$100.00 Mobil Oil Student Scholarship, 1980.

J. McKinley

1. President, Beta Mu Chapter of Sigma Gamma Epsilon.
2. Recipient of travel grant from the Caswell Silver Foundation to attend the Meteoritical Society Meeting, Berne, Switzerland, and present talk.

S. G. McKinley

1. Recipient of student travel scholarship from the Meteoritical Society to attend the Annual Meeting in Berne, Switzerland.

A. Rubin

1. Ninger Meteorite Award for 1980 (\$500.00).
2. Albuquerque Gem and Mineral Scholarship for 1980 (\$180.00).
3. Received student grant to attend the 1980 Meteoritical Society Meeting in La Jolla, California.
4. Graduate School of UNM Scholarship Award for 1981 (\$900.00).
5. Awarded Smithsonian Institution Postdoctoral Fellowship for period of Sept. 1, 1982-Sept. 1, 1983.
6. Recipient of student travel grant from Meteoritical Society to attend the St. Louis Annual Meeting.

5.4. Publications

Listed are only publications that have appeared in the report period. Not listed are papers that are in press or in preparation. Since most publications of the Institute of Meteoritics are co-authored by several members of the Institute, only one list of publications is given, rather than duplicating listings on an individual-by-individual basis. Note that to draw your attention to the active participation of students in research of the Institute of Meteoritics, names of student authors and speakers have been underlined.

5.4.1. Scientific Articles Published in Major National and International, Reviewed Journals; Scientific Publications of the Institute of Meteoritics; as well as Books.

1. G. Lux, K. Keil and G.J. Taylor: Metamorphism of the H-group chondrites; implications from compositional and textural trends in chondrules. *Geochim. Cosmochim. Acta* 44, 841-855, 1980.
2. D.E. Lange, K. Keil, and L. LaPaz: Catalog of the Meteorite Collection of the Institute of Meteoritics at the University of New Mexico. *Spec. Publ. 21*, Univ. of New Mexico - Institute of Meteoritics, 1-48, 1980.
3. G.J. Taylor, R.D. Warner, K. Keil, M.S. Ma and R.A. Schmitt: Silicate liquid immiscibility, evolved lunar rocks and the formation of KREEP. *Proc. Conf. Lunar Highlands Crust*, 339-352, 1980.
4. R.D. Warner, G.J. Taylor and K. Keil: Petrology of 60035: Evolution of a polymict ANT breccia. *Proc. Conf. Lunar Highlands Crust*, 377-394, 1980.
5. J.L. Berkley, G.J. Taylor, K. Keil, G.E. Harlow and M. Prinz: The nature and origin of ureilites. *Geochim. Cosmochim. Acta* 44, 1579-1597, 1980.
6. R.V. Fodor, J.L. Berkley, K. Keil, J.W. Husler, M.S. Ma and R.A. Schmitt: Petrology of basalt drilled from the Galapagos spreading center, Deep Sea Drilling Project, Leg 54. *Init. Rep. DSDP, LIV*, 737-749, 1980.
7. J.L. Gooding, K. Keil, T. Fukuoka and R.A. Schmitt: Elemental abundances in chondrules from unequilibrated chondrites: Evidence for chondrule origin by melting of pre-existing materials. *Earth Planet. Sci. Lett.* 50, 171-180, 1980.
8. C.B. Gomes and K. Keil: Brazilian Stone Meteorites (with a brief introduction on the significance, classification, mineralogy, bulk composition and recognition of stone meteorites). University of New Mexico Press, 1-162, 1980.
9. K. Keil, R.V. Fodor, P.M. Starzyk, R.A. Schmitt, D.D. Bogard and L. Husain: A 3.6 b.y. old impact-melt rock fragment in the

Plainview chondrite: implications for the age of the H-group chondrite parent body regolith formation. *Earth Planet. Sci. Lett.* 51, 235-247, 1980.

10. R.D. Warner, G.J. Taylor, K. Keil, M.S. Ma and R.A. Schmitt: Aluminous mare basalts: New data from Apollo 14 coarse fines. *Proc. Lunar Planet. Sci. Conf. 11th*, 87-104, 1980.
11. J. L. Berkley, K. Keil and M. Prinz: Comparative petrology and origin of Governador Valadares and other nakhlites. *Proc. Lunar Planet. Sci. Conf. 11th*, 1089-1102, 1980.
12. G. R. Huss, K. Keil and G. J. Taylor: The matrices of unequilibrated ordinary chondrites: implications for the origin and history of chondrites. *Geochim. Cosmochim. Acta* 45, 33-51, 1981.
13. C. C. Allen, J. L. Gooding, M. Jercinovic, and K. Keil: Martian soil and terrestrial palagonite. *Lunar Planet. Sci.* XII, 13-15, 1981.
14. C. C. Allen, J. L. Gooding and K. Keil: Hydrothermally altered impact melt from Brent and Ries Craters. *Lunar Planet. Sci.* XII, 16-18, 1981.
15. R. N. Clayton, T. K. Mayeda, J. L. Gooding, K. Keil and E. J. Olsen: Redox processes in chondrules and chondrites. *Lunar Planet. Sci.* XII, 154-156, 1981.
16. J. L. Gooding and K. Keil: Estimated viscosities and implied histories of droplet chondrules. *Lunar Planet. Sci.* XII, 353-355, 1981.
17. M. S. Ma, R. A. Schmitt, G. J. Taylor, R. D. Warner and K. Keil: Chemical and petrographic study of spinel troctolite in 67435: Implications for the origin of Mg-rich plutonic rocks. *Lunar Planet. Sci.* XII, 640-642, 1981.
18. J. P. McKinley, G. J. Taylor, K. Keil, M.S. Ma and R. A. Schmitt: The origin of Apollo 16 dimict breccias. *Lunar Planet. Sci.* XII, 691-693, 1981.
19. A. E. Rubin, S. McKinley, E. R. D. Scott, G. J. Taylor and K. Keil: A new kind of unequilibrated ordinary chondrite with a graphite-magnetite matrix. *Lunar Planet. Sci.* XII, 908-910, 1981.
20. E. R. D. Scott, G. J. Taylor, A. E. Rubin, A. Okada, K. Keil, B. Hudson and C. M. Hohenberg: Graphite-magnetite inclusions in ordinary chondrites: An important constituent in the early solar system. *Lunar Planet. Sci.* XII, 955-957, 1981.
21. G. J. Taylor, A. Okada, E. R. D. Scott, A. E. Rubin, G. R. Huss and K. Keil: The occurrence and implications of carbide-magnetite assemblages in unequilibrated ordinary chondrites. *Lunar Planet. Sci.* XII, 1076-1078, 1981.

22. P. H. Warren, G. J. Taylor, K. Keil, C. Marshall and J. T. Wasson: Additional pristine nonmare rocks from the western hemisphere of the moon: Implications for petrogenetic models. *Lunar Planet. Sci.* XII. 1154-1156, 1981.
23. G. V. Smith, T. S. Pink, J. R. Lawrence, L. A. Woodward, K. Keil, and A. R. Lappin: Preliminary survey of tuff distribution in Esmeralda, Nye and Lincoln Counties, Nevada. Sandia National Lab., SAND79-1539, 1-123, 1981.
24. G. Lux, K. Keil and G. J. Taylor: Chondrules in H3 chondrites: textures, compositions and origins. *Geochim. Cosmochim. Acta* 45, 675-685, 1981.
25. A. E. Rubin, G. J. Taylor, K. Keil and G. Nelson: The Correo and Suwanee Spring meteorites: Two new ordinary chondrite finds. *Meteoritics* 16, 9-12, 1981.
26. K. Keil, G. H. Conrad and J. E. Welsh: The Beaver-Harrison, Beaver County, Utah L6 chondrite. *Meteoritics* 16, 13-16, 1981.
27. J. L. Gooding and K. Keil: Relative abundances of chondrule primary textural types in ordinary chondrites and their bearing on conditions of chondrule formation. *Meteoritics* 16, 17-43, 1981.
28. E. R. D. Scott, G. J. Taylor, A. E. Rubin, A. Okada and K. Keil: Graphite-magnetite aggregates in ordinary chondritic meteorites. *Nature* 291, 544-546, 1981.
29. C. C. Allen, J. L. Gooding, M. Jercinovic and K. Keil: Altered basaltic glass: A terrestrial analog to the soil of Mars. *Icarus* 45, 347-369, 1981.
30. A. Okada, K. Keil and G. J. Taylor: Unusual weathering products of oldhamite parentage in the Norton County enstatite achondrite. *Meteoritics* 16, 141-152, 1981.
31. C. C. Allen, J. L. Gooding, M. Jercinovic and K. Keil: The surface soil of Mars. Third Intern. Colloquium on Mars, LPI Contrib. 441, 1-3, 1981.
32. A. E. Rubin, K. Keil, G. J. Taylor, M. S. Ma, R. A. Schmitt and D. D. Bogard: Derivation of a heterogeneous lithic fragment in the Bovedy L-group chondrite from impact-melted porphyritic chondrules. *Geochim. Cosmochim. Acta* 45, 2213-2228, 1981.
33. G.J. Taylor and U.B. Marvin: How, when and where did the Apollo 16 breccias and melt rocks form? In "Workshop on Apollo 16", LPI Techn. Rep. 81-01, 9-12, 1981.
34. P.W. Warren and G.J. Taylor: Petrochemical constraints on lateral transport during lunar basin formation. In "Multi-Ringed Basins", Proc. Lunar Planet. Sci. Conf. 12A, 149-154, 1981.

35. E.R.D. Scott and R.S. Rajan: Metallic minerals, thermal histories and parent bodies of some xenolithic ordinary chondrite meteorites. *Geochim. Cosmochim. Acta* 45, 53-67, 1981.
36. E.R.D. Scott and R.S. Clarke, Jr.: Ordering of FeNi in clear taenite from meteorites. *Nature* 287, 255, 1981.
37. E.R.D. Scott: Meteorites - Solar system fossils. *Geotimes* 26, 22-23, 1981.
38. C.C. Allen and M. Jercinovic: Tuyas of British Columbia revisited. *Volcano News* 6, 1-2,
39. D. Stoffler, U.B. Marvin, C.H. Simonds and P.H. Warren: Recommended classification and nomenclature of lunar highland rocks: a committee report. *Proc. Conf. Lunar Highlands Crust*, 51-70, 1980.
40. P.H. Warren and J.T. Wasson: Early lunar petrogenesis, oceanic and extracceanic. *Proc. Conf. Lunar Highlands Crust*, 81-98, 1980.
41. J.T. Wasson and P.H. Warren: Contribution of the mantle to the lunar asymmetry. *Icarus* 44, 752-771, 1980.
42. P.H. Warren and J.T. Wasson: Further foraging for pristine nonmare rocks: Correlations between geochemistry and longitude. *Proc. Lunar Planet. Sci. Conf. 11th*, 431-470, 1980.
43. U.B. Marvin and P.H. Warren: A pristine eucrite-like gabbro from Descartes and its exotic kindred. *Proc. Lunar Planet. Sci. Conf. 11th*, 507-521, 1980.
44. J.S. Allen, S. Nozette, and L.L. Wilkening: A study of chondrule rims and chondrule irradiation records in unequilibrated ordinary chondrites. *Geochim. Cosmochim. Acta* 44, 1161-1175, 1980.
45. J.R. Connolly and L.A. Woodward: Preliminary inventory of clay shales and argillites of the continental United States. Sandia National Laboratories Report, SAND 79-2015, 1-40, 1981.
46. J.L. Berkley and K. Keil: Olivine orientation in the ALHA 77005 achondrite. *Amer. Mineral.* 66, 1233-1236, 1981.
47. R.J. Floran, M. Prinz, P.F. Hlava, K. Keil, B. Spettel and H. Wanke: Mineralogy, petrology and trace element geochemistry of the Johnstown meteorite: a brecciated orthopyroxenite with siderophile and REE-rich components. *Geochim. Cosmochim. Acta* 45, 2385-2391.
48. K. Keil and K. Fredriksson: Electron probe microanalysis . In - "Encyclopedia of mineralogy" (ed. J. Frye), Hutchinson Ross Publ. Comp, 143-148. 1981.

49. E.R.D. Scott, A.E. Rubin, G.J. Taylor and K. Keil: New kind of type 3 chondrite with a graphite-magnetite matrix. *Earth Planet. Sci. Lett.* 56, 19-31, 1981.
50. J.R. Connolly, L.A. Woodward, K.M. Emanuel and K. Keil: Field examination of shale and argillite in Northern Nye County, Nevada. SAND 1-7154, p. 1-136, 1981.
51. P.H. Warren, G.J. Taylor, K. Keil, C. Marshall and J.T. Wasson: Foraging westward for pristine nonmare rocks: Complications for petrogenetic models. *Proc. Lunar Planet. Sci.* 12B, 21-40, 1981.
52. S.G. McKinley, E.R.D. Scott, G.J. Taylor and K. Keil: A unique type 3 ordinary chondrite containing graphite-magnetite aggregates - Allan Hills A77011. *Proc. Lunar Planet. Sci.* 12B, 1039-1048, 1981.
53. H. N. Planner and K. Keil: Evidence for the three-stage cooling history of olivine-porphyrritic fluid droplet chondrules. *Geochim. Cosmochim. Acta* 46, 317-330, 1982.
54. K. Keil, J. L. Berkley and L. H. Fuchs: Suessite, Fe_2Si : A new mineral in the North Haig ureilite. *Amer. Mineral.* 67, 126-131, 1982.
55. A. Okada and K. Keil: Caswellsilverite, $NaCrS_2$: A new mineral in the Norton County enstatite achondrite. *Amer. Mineral.* 67, 132-136, 1982.
56. C.C. Allen, J.L. Gooding and K. Keil: Altered impact melt rock and breccia: Contribution to Martian "soil". *Lunar Planet. Sci.* XIII, 7-8, 1982.
57. C.C. Allen, M. Jercinovic, T.H. See and K. Keil: Effects of target water on shock lithification. *Lunar Planet. Sci.* XIII, 9-10, 1982.
58. J.L. Gooding, T.K. Mayeda, R.N. Clayton, K. Keil, T. Fukuoka and R.A. Schmitt: Oxygen isotopic compositions of chondrules in unequilibrated chondrites: Further petrological interpretations. *Lunar Planet. Sci.* XIII, 271-272, 1982.
59. J. McKinley, G.J. Taylor and K. Keil: Geologic history of the Apollo 16 region. *Lunar Planet. Sci.* XIII, 495-496, 1982.
60. J.P. McKinley, G.J. Taylor, K. Keil, M.S. Ma and R.A. Schmitt: Apollo 16 impact melt sheets. *Lunar Planet. Sci.* XIII, 497-498, 1982.
61. A.E. Rubin, E.R.D. Scott, K. Keil and A. Okada: Microchondrules: Their occurrence in new kinds of type 3 chondrites and their bearing on the origin of chondrules. *Lunar Planet. Sci.* XIII, 663-664, 1982.

62. E.R.D. Scott, G.J. Taylor and K. Keil: Origins of ordinary and carbonaceous type 3 chondrites and their components. *Lunar Planet. Sci.* XIII, 704-705, 1982.
63. G.J. Taylor, E.R.D. Scott, A.E. Rubin, P. Maggiore and K. Keil: Structure and fragmentation of the parent asteroids of ordinary chondrites. *Lunar Planet. Sci.* XIII, 799-800, 1982.
64. P.H. Warren, G.J. Taylor and K. Keil: Graphic granite from the Moon. *Lunar Planet. Sci.* XIII, 839-840, 1982.
65. P.H. Warren, G.J. Taylor, K. Keil, G.W. Kallemeyn, P.S. Rosener and J.T. Wasson: Foraging for pristine nonmare rocks : Four more from the west. *Lunar Planet. Sci.* XIII, 841-842, 1982.
66. K. Keil: Composition and origin of chondritic breccias. In "Workshop on lunar breccias and soils and their meteoritic analogs" (G.J. Taylor and L.L. Wilkening, eds.), LPI Tech. Rep. 82-02, Lunar and Planetary Institute, Houston, 65-83, 1982.
67. A.E. Rubin, G.J. Taylor, E.R.D. Scott and K. Keil: Petrologic insights into the fragmentation history of asteroids. In "Workshop on lunar breccias and soils and their meteoritic analogs" (G.J. Taylor and L.L. Wilkening, eds), LPI Tech. Rep. 82-02, Lunar and Planetary Institute, Houston, 107-110, 1982.
68. G.J. Taylor: Pristine lunar highland rocks: Hypotheses of origin. In "Workshop on Magmatic Processes in Early Planetary Crusts: Magma Oceans and Stratiform Layered Intrusions" (D. Walker and I.S. McCallum, Eds), LPI Tech. Rept. No. 82-01, 147-153, 1982.
69. G.J. Taylor: Petrologic comparison of lunar and meteoritic breccias. In "Workshop on lunar breccias and soils and their meteoritic Analogs" (G.J. Taylor and L.L. Wilkening, Eds.), LPI Tech. Rpt. No. 82-02, 153-167, 1982.
70. G.J. Taylor and L.L. Wilkening (eds.), "Workshop on Lunar Breccias and Soils and their Meteoritic Analogs," LPI Tech. Rpt. No. 82-02, Lunar and Planetary Institute, Houston, 172 pp., 1982.
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72. E.R.D. Scott: Origin of rapidly solidified metal-troilite grains in chondrites and iron meteorites. *Geochim. Cosmochim. Acta* 46, 813-823, 1982.
73. E.R.D. Scott and R.S. Rajan: Polycrystalline taenite and metallographic cooling rates of chondrites: reply to comments of A.W.R. Bevan and H.J. Axon. *Geochim. Cosmochim. Acta* 45, 1959, 1981.

74. E.R.D. Scott: Meteorites - Solar System Fossils. *Geotimes* 26, No. 6, 22-23, 1981.
75. E.R.D. Scott: Isotopic anomalies in meteorites. *Nature* 297, 361-362, 1982.
76. E.R.D. Scott and G.J. Taylor: Primitive breccias among type 3 ordinary chondrites- origin and relation to regolith breccias. In 'Workshop on lunar breccias and soils and their meteoritic analogs' (G.J. Taylor and L.L. Wilkening, Eds), LPI Tech. Rept. 82-02, Lunar and Planetary Institute, Houston, 130-132, 1982.
77. A. Kracher: Crystallization of a S-saturated Fe,Ni-melt, and the origin of iron meteorite groups IAB and III CD. *Geophys. Res. Lett.* 9, 412-415, 1982.
78. A. Kracher and J.T. Wasson: The role of S in the evolution of iron meteorite parent bodies. *Lunar Planet. Sci.* XIII, 407-408, 1982.
79. P.H. Warren and G.J. Taylor: Petrochemical constraints on lateral transport during lunar basin formation. In "Multi-ring Basins" (P.H. Schultz and R.B. Merrill, eds.), 149-154, 1981.
80. P.H. Warren: Petrology of pristine nonmare rocks, survivors of the lunar highlands bombardment. In "Workshop on Magmatic Processes of Early Planetary Crusts" (D. Walker and I.S. McCallum, eds.), 155-160, 1981.
81. P.H. Warren: The Moon is not necessarily enriched in refractory elements. *Lunar Planet. Sci.* XIII, 837-838, 1982.
82. P.S. Rosener, P.H. Warren, K.H. Esbensen, and J.R. Wilson: Distributions of trace elements in the extreme differentiates of the Fongen-Hyllingen layered complex: a possible KREEP analog. *Lunar Planet Sci.* XIII, 657-658, 1982.
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83. J.L. Berkley and K. Keil: Ureilites revisited: Petrologic evidence for a cumulate origin. *Meteoritics* 15, 264, 1980.
84. J.L. Gooding, K. Keil, T.K. Mayeda, R.N. Clayton, T. Fukuoka and R.A. Schmitt: Oxygen isotopic compositions of petrologically characterized chondrules from unequilibrated chondrites. *Meteoritics* 15, 295, 1980.
85. K. Keil, J.L. Berkley and L.H. Fuchs: Suessite Fe₂Si, a new mineral in the North Haig ureilite. *Meteoritics* 15, 312-313, 1980.
86. A. Okada, K. Keil and G.J. Taylor: The Norton County enstatite achondrite: A brecciated plutonic igneous rock. *Meteoritics* 15, 345-346, 1980.

87. A.E. Rubin and K. Keil: Mineralogy and petrology of the Abee enstatite chondrite. *Meteoritics* 15, 358-359, 1980.
88. A.E. Rubin, K. Keil, G.J. Taylor, M.S. Ma, R.A. Schmitt and D.D. Bogard: A heterogeneous lithic fragment in the Bovedy L3 chondrite: Origin by impact melting of porphyritic chondrules. *Meteoritics* 15, 359-360, 1980.
89. E.R.D. Scott: Thermal history of chondrites containing rapidly solidified metal-troilite inclusions. *Meteoritics* 15, 364, 1980.
90. C.C. Allen, J.L. Gooding, M. Jercinovic, and K. Keil: Altered basaltic glass-A Martian soil analog. *Bull. Amer. Astronom. Soc.* 12, 682, 1980.
91. C.C. Allen: Zeolite and palagonite mineralogy of volcanic glass alteration: Isleta and Canjilon volcanoes, N.M. *New Mexico Geology*, Feb. 1981.
92. M. Shima, S. Murayama, S. Yabuki and A. Okada: Petrography, mineralogy and chemical composition of the chondrite Nogata, Nogata-shi, Fukuokaken, Japan: oldest observed fall in the world. *Meteoritics* 15, 365-366.
93. P.H. Warren: Excentric lunar anomalies: geochemistry correlated with longitude. *Meteoritics* 15, 384-385, 1980.
94. W.L. Mansker, K. Keil, J. Husler and R.A. Schmitt: A petrologic comparison of nephelinites and melillite nephelinites: Implications regarding their evolution. *Proc. Geol. Soc. Amer. Meeting*, Atlanta, Georgia.
95. S.E. Barker, A.M. Kudo and K. Keil: Mineral chemistry and chemical modelling of basalts from Holes 483, 483B, 485A, DSDP Leg 65, East Pacific Rise, Gulf of California. *EOS* 61, 1144, 1980.
96. C.C. Allen and K. Keil: Hydrothermal alteration of melt rocks in impact craters. *Meteoritics* 16, 288-289, 1981.
97. D.D. Bogard, G.J. Taylor, K. Keil, M.R. Smith, R.A. Schmitt and J. Danon: Impact melting and brecciation of the Cachari eucrite 3.0 Gy ago. *Meteoritics* 16, 296, 1981.
98. J. Danon, M. Christophe Michel-Levy, C. Jehanno, K. Keil, C.B. Gomes, R.B. Scorzelli and I. Souza Azevedo : Awaruite (Ni₂Fe) in the genomict LL chondrite Parambu: Formation under high FO₂. *Meteoritics* 16, 305, 1981.
99. J.L. Gooding, K. Keil, T. Fukuoka and R.A. Schmitt: Correlations between physical and petrological properties of chondrules. *Meteoritics* 16, 318, 1981.

100. J.P. McKinley, G.J. Taylor and K. Keil: The origin of Apollo 16 dimict breccias. Meteoritics 16, 356-357, 1981.
101. S.G. McKinley, E.R.D. Scott, G.J. Taylor and K. Keil: A unique type 3 ordinary chondrite containing graphite-magnetite aggregates - Allan Hills A77011. Meteoritics 16, 357-358, 1981.
102. A. Okada and K. Keil: Caswellsilverite, NaCrS_2 , a new mineral in the Norton County enstatite achondrite. Meteoritics 16, 270-371, 1981.
103. A.E. Rubin, E.R.D. Scott, G.J. Taylor and K. Keil: The Dimmitt H chondrite regolith breccia and implications for the structure of the H chondrite parent body. Meteoritics 16, 382-383, 1981.
104. E.R.D. Scott, G.J. Taylor, P. Maggiore, K. Keil, S.G. McKinley and H.Y. McSween, Jr.: Three CO_3 chondrites from Antarctica-Comparison of carbonaceous and ordinary type 3 chondrites. Meteoritics 16, 385, 1981.
105. A.M. Kudo, S.E. Barker, K. Keil and M.H. Beeson: Coherence of major and trace element modelling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise. EOS 62, 1067, 1981.
106. C.C. Allen: Stability and alteration of low-silica glass in the natural environment. 5th Intern. Symp. Scientific Basis for Radioactive Waste Management, 1982.
107. P.H. Warren: Eucrites and the Moon: Regularities among europium "anomalies." Meteoritics 16, 399, 1981.
108. J.R. Connolly: Structure and metamorphism of Precambrian Cibola gneiss and Tijeras greenstone, Bernalillo County, New Mexico. Geol. Soc. Amer. Abstr. with Programs 14, 307, 1982.
- 5.4.3. Professional Papers Read (Speaker⁺).
109. J. L. Berkley⁺ and K. Keil: Ureilites revisited: Petrologic evidence for a cumulate origin. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
110. J. L. Gooding⁺, K. Keil, T. K. Mayeda, R. N. Clayton, T. Fukuoka and R. A. Schmitt: Oxygen isotopic compositions of petrologically characterized chondrules from unequilibrated chondrites. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
111. K. Keil⁺, J. L. Berkley and L. H. Fuchs: Suessite, Fe_3Si , a new mineral in the North Haig ureilite. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.

112. A. E. Rubin⁺ and K. Keil: Mineralogy and petrology of the Abee enstatite chondrite. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
113. A. E. Rubin⁺, K. Keil, G. J. Taylor, M. S. Ma, R. A. Schmitt and D. D. Bogard: A heterogeneous lithic fragment in the Bovedy L3 chondrite: Origin by impact-melting of porphyritic chondrules. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
114. A. Okada⁺, K. Keil and G. J. Taylor: The Norton County enstatite achondrite: A brecciated, plutonic igneous rock. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
115. K. Keil⁺: Origin and early history of the solar system: Evidence from meteorites and the planets. Edison Foundation Meeting, Univ. of Wisconsin, Barraboo Campus, October 3, 1980.
116. K. Keil⁺: Electron microprobe facilities and applications at UNM. New Mexico Probe Users Group, Sandia National Laboratories, October 29, 1980.
117. K. Keil⁺: Stone meteorites: Origin as asteroidal regolith impact breccias. Jet Propulsion Laboratory, Pasadena, Calif., Feb. 27, 1981.
118. K. Keil⁺: Series of 12 lectures on "Relationships of meteorites to comets and asteroids", Institute of Astronomy and Geophysics, University of Sao Paulo, Brazil, March 8-28, 1981.
119. K. Keil⁺: Jupiter, Saturn, and their moons: Results of the Voyager fly-by missions. Institutes of Astronomy and Geophysics, University of Sao Paulo, Sao Paulo, Brazil, March 27, 1981.
120. K. Keil⁺: Meteorites and the early history of the solar system. Brazilian Center for Research in Physics, Rio de Janeiro, Brazil, March 31, 1981.
121. K. Keil⁺: Jupiter, Saturn, and their moons: Results of the Voyager fly-by missions. Brazilian National Astronomical Observatory, Rio de Janeiro, Brazil, April 2, 1981.
122. K. Keil⁺: Steinmeteorite: Entstehung als Impaktbrekzien von Asteroiden. Department of Mineralogy, University of Munster, West-Germany, April 29, 1981.
123. K. Keil⁺: Steinmeteorite: Entstehung als Impaktbrekzien von Asteroiden. Department of Mineralogy, University of Cologne, West-Germany, May 7, 1981.
124. K. Keil⁺: Origin and early history of the solar system: Evidence from meteorites. National Museum of Natural History, Madrid, Spain, May 12, 1981.

125. K. Keil⁺: Ursprung und fruhe Geschichte des Sonnensystems. Departments of Inorganic Chemistry and Mineralogy, University of Saarbrucken, West-Germany, May 18, 1981.
126. K. Keil⁺: Jupiter, Saturn, und ihre Monde: Resultate der Voyager Missionen. Departments of Inorganic Chemistry and Mineralogy, University of Saarbrucken, West-Germany, May 19, 1981.
127. E.R.D. Scott⁺: Metallurgy of meteorites. Materials Science Seminar, Sandia Natl. Labs., Albuquerque, NM. July 24, 1980.
128. E.R.D. Scott⁺: Thermal history of chondrites containing rapidly solidified metal-troilite inclusions. Meteoritical Society Meeting, Univ. of California, La Jolla Calif., September 3, 1980.
129. E.R.D. Scott⁺: Origin of iron meteorites. UNM Department of Geology Seminar, October 2, 1980.
130. C.C. Allen⁺, J.L. Gooding, M. Jercinovic and K. Keil: Altered basaltic glass- A Martian soil analog. Division of Planetary Sci. Meeting, Tucson, Arizona.
131. C.C. Allen⁺: Zeolite and palagonite mineralogy of volcanic glass alteration: Isleta and Canjilon volcanoes, N.M. Second New Mexico Minerals Symp., Socorro, N.M.
132. C.C. Allen⁺, J.L. Gooding and K. Keil: Hydrothermally altered impact melt rock from Brent and Ries craters. Lunar Planet. Sci. Conf., Houston, Texas, March 16-20, 1981.
133. G.J. Taylor⁺: Summary of discussion on how, when and where did the Apollo 16 breccias and melt rocks form? Workshop on Apollo 16, Houston, Texas, Nov. 13-15, 1980.
134. G.J. Taylor⁺, A. Okada, E.R.D. Scott, A.E. Rubin, G.R. Huss and K. Keil: The occurrence and implications of carbide-magnetite assemblages in unequilibrated ordinary chondrites. Lunar Planet. Sci. Conf., Houston, Texas, March 16-20, 1981.
135. E.R.D. Scott⁺, G.J. Taylor, A. Rubin, A. Okada and K. Keil: Graphite-magnetite inclusions in ordinary chondrites: an important constituent in the early solar system. 12th Lunar and Planetary Science Conf., Johnson Space Center, Houston, Texas. March 19, 1981.
136. M. Shima⁺, S. Murayama, H. Yabuki and A. Okada: Petrography, mineralogy and chemical composition of the chondrite Nogata, Nogata-shi, Fukuoka-ken, Japan: Oldest observed fall in the world. Ann. Meeting of the Meteoritical Society, Univ. of California, LaJolla, Calif, Sept. 2, 1980.

137. P.H. Warren⁺: Excentric lunar anomalies, geochemistry correlated with longitude. Ann. Meeting of the Meteoritical Society, Univ. of California, La Jolla, Calif., Sept. 2, 1980.
138. P.H. Warren⁺, G.J. Taylor, K. Keil, C. Marshall and J.T. Wasson: Additional pristine nonmare rocks from the western hemisphere of the moon: Implications for petrogenetic models. 12th Lunar and Planetary Science Conf., Johnson Space Center, Houston, Texas, March 19, 1981.
139. J.R. Connolly⁺: Precambrian deformation and metamorphism of Tijeras Greenstone and Cibola gneiss, Tijeras Canyon, Bernalillo County New Mexico. Second Ann. Geoscience Student Research Symp., Socorro, NM., April 18, 1981.
140. W.L. Mansker⁺, K. Keil, J. Husler and R.A. Schmitt: A petrologic comparison of nephelinites and melillite nephelinites: Implications regarding their evolution. Ann. Meeting, Geological Soc. America, Atlanta, Georgia.
141. W.L. Mansker⁺: A survey of diamonds and kimberlites in the U.S.. Albuquerque Geological Society, October, 1980.
142. W.L. Mansker⁺: A survey of diamonds and kimberlites in the U.S. Department of Geology, Univ. of New Mexico, Seminar, Nov., 1980.
143. S.E. Barker⁺, A.M. Kudo and K. Keil: Mineral chemistry and chemical modelling of basalts from holes 483, 483B, 485A, DSDP Leg 65, East Pacific Rise, Gulf of California. Fall Meeting Amer. Geophysical Union, San Francisco, Calif. Dec. 1980
144. J.P. McKinley⁺, G.J. Taylor, K. Keil, M.S. Ma and R.A. Schmitt: The origin of Apollo 16 dimict breccias. Lunar and Planetary Science Conf., NASA Johnson Space Center, Houston, Texas, March 16-20, 1981.
145. A.E. Rubin⁺, S. McKinley, E.R.D. Scott, G.J. Taylor and K. Keil: A new kind of unequilibrated ordinary chondrite with a graphite-magnetite matrix. Lunar and Planetary Science Conference, Houston, Texas. March 16-20, 1981.
146. C. C. Allen⁺ and K. Keil: Hydrothermal alteration of melt rocks in impact craters. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
147. D. D. Bogard⁺, G. J. Taylor, K. Keil, M. R. Smith, R. A. Schmitt and J. Danon: Impact melting and brecciation of the Cachari eucrite 3.0 Gy ago. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
148. J. Danon, M. Christophe Michel-Levy, C. Jehanno, K. Keil⁺, C. B. Gomes, R. B. Scorzelli and I. Souza Azevedo: Awaruite (Ni₃Fe) in

- the genomict LL chondrite Parambu: Formation under high FO_2 . Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
149. J. L. Gooding⁺, K. Keil, T. Fukuoka and R. A. Schmitt: Correlations between physical and petrological properties of chondrules. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
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 151. S. G. McKinley⁺, E. R. D. Scott, G. J. Taylor and K. Keil: A unique type 3 ordinary chondrite containing graphite-magnetite aggregates: Allan Hills A77011. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
 152. A. Okada and K. Keil⁺: Caswellsilverite, $NaCrS_6$, a new mineral in the Norton County enstatite achondrite. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
 153. A. E. Rubin⁺, E. R. D. Scott, G. J. Taylor and K. Keil: The Dimmitt H chondrite regolith breccia and implications for the structure of the H chondrite parent body. Meteoritical Society Meeting, Berne, Switzerland, Aug. 17-21, 1981.
 154. E. R. D. Scott⁺, G. J. Taylor, P. Maggiore, K. Keil, S. G. McKinley and H. Y. McSween, Jr.: Three CO_3 chondrites from Antarctica--Comparison of carbonaceous and ordinary type 3 chondrites. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
 155. A.M. Kudo⁺, S.E. Barker, K. Keil and M.H. Beeson: Coherence of major and trace element modelling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise. Meeting of the Amer. Geophys. Union, San Francisco, Calif., Dec. 1981.
 156. A.E. Rubin⁺, G.J. Taylor, E.R.D. Scott and K. Keil: Petrologic insights into the fragmentation history of asteroids. Workshop on "Lunar breccias and soils and their meteoritic analogs", Lunar and Planetary Institute, Houston, Texas, Nov. 9-11, 1981.
 157. K. Keil⁺: Composition and origin of chondritic breccias. Workshop on "Lunar breccias and soils and their meteoritic analogs", Lunar and Planetary Institute, Houston, Texas. Nov. 8-11, 1981.
 158. G.J. Taylor⁺: Petrologic comparisons of lunar and meteoritic breccias. Workshop on "Lunar Breccias and soils and their meteoritic analogs", Lunar and Planetary Institute, Houston, Texas, Nov. 8-11, 1981.

159. G.J. Taylor⁺: Pristine lunar highland rocks: hypotheses of origin. Workshop on "Magmatic processes in early planetary crusts", Billings, Mt., Aug. 3, 1981.
160. E.R.D. Scott⁺ and G.J. Taylor: Primitive breccias among type 3 ordinary chondrites: Origin and relation to regolith breccias. Workshop on "Lunar breccias and soils and their meteoritic analogs", Lunar and Planetary Institute, Houston, Texas, Nov. 9, 1981.
161. C.C. Allen⁺, J.L. Gooding and K. Keil: Altered impact melt rock and breccia: Contribution to Martian "soil". Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
162. C.C. Allen⁺, M. Jercinovic, T.H. See and K. Keil: Effects of target water on shock lithification. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
163. C.C. Allen⁺: Stability of low-silica glass in the natural environment. 5th Internat. Symp. on the Scientific Basis for Radioactive Waste Management, Berlin, West-Germany, June, 1982.
164. C.C. Allen⁺: Stability and alteration of basaltic glass-Implications for nuclear waste forms. Rockwell Hanford Operations (May, 1982) and University of Oregon (June, 1982).
165. C.C. Allen⁺: The surface soil of Mars. 3rd Internat. Coll. on Mars, Pasadena, Calif., March, 1982.
166. J.L. Gooding⁺, T.K. Mayeda, R.N. Clayton, K. Keil, T. Fukuoka and R.A. Schmitt: Oxygen isotopic compositions of chondrules in unequilibrated chondrites: Further petrological interpretations. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
167. J.P. McKinley⁺, G.J. Taylor and K. Keil: Geologic history of the Apollo 16 region. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
168. P.S. Rosener⁺, P.H. Warren, K.H. Esbensen and J.R. Wilson: Distribution of trace elements in the extreme differentiates of the Fongen-Hyllingen layered complex. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
169. A.E. Rubin⁺, E.R.D. Scott, K. Keil and A. Okada: Microchondrules- Their occurrence in new kinds of type 3 chondrites and their bearing on the origin of chondrules. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
170. E.R.D. Scott⁺, G.J. Taylor and K. Keil: Origins of ordinary and carbonaceous type 3 chondrites and their components. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.

171. G.J. Taylor⁺, E.R.D. Scott, A.E. Rubin, P. Maggiore and K. Keil: Structure and fragmentation of the parent asteroids of ordinary chondrites. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
172. P.H. Warren⁺, G.J. Taylor and K. Keil: Graphic granite from the Moon. Lunar Planet. Sci. Conf., Houston, Texas, March 15-19, 1982.
173. A. Kracher⁺: Weltraum-Museen-Zukunft. German Summer School, Dept. of Modern and Classical Languages, UNM, Taos, N.M., June 17, 1982.
174. P.H. Warren⁺: Petrology of pristine nonmare rocks, survivors of the lunar highlands bombardment. Workshop on "Magmatic processes of early planetary crusts", Billings, Mt., August 4, 1981.
175. P.H. Warren⁺: Eucrites and the Moon - Regularities among europium "anomalies." Meteoritical Society Meeting, Berne, Switzerland, Aug. 18, 1981.
176. P.H. Warren⁺: Pristine nonmare rocks. V.I. Vernadsky Institute, Moscow, U.S.S.R., Sept. 2, 1981.
177. P.H. Warren⁺: Early lunar crustal development. Early Crustal Genesis Conference, Warrenton, Virginia, Nov. 15, 1981.
178. P.H. Warren⁺: Pristine nonmare rocks and the igneous differentiation of the Moon. Dept. of Physical Sciences, Florida International University, Miami, Florida, April 1, 1982.
179. J.R. Connolly⁺: Structure and metamorphism of Precambrian Cibola gneiss and Tijeras greenstone, Bernalillo County, N.M. Rocky Mt. Sectional Meeting, Geol. Soc. Amer., Bozeman, Montana, May 7-8, 1982.
180. K. Keil⁺: Geological aspects of the disposal of high-level nuclear waste. Edison Foundation, Beaumont, Texas, Jan. 25, 1982.
181. K. Keil⁺: Origin and early history of our solar system: Evidence from meteorites and probes of the planets. Edison Foundation, Detroit, Michigan, Feb. 11, 1982.
182. K. Keil⁺: Significance and properties of meteorites. Invited paper, workshop on "Glaciology and Antarctic Meteorites, Lunar Planet. Institute, Houston, Texas, April 19-21, 1982.
183. K. Keil⁺: Mineralogy and petrology of unique Antarctic meteorites. Invited paper, workshop on "Glaciology and Antarctic meteorites", Lunar Planet. Institute, Houston, Texas, April 19-21, 1982.

184. K. Keil⁺: Vulkanismus in unserem Sonnensystem. German Summer School, Dept. of Modern and Classical Languages, UNM, Taos, N.M., June 24, 1982.

5.5. Other Research Projects or Creative Work in Progress or Completed During Period (Research Grants and Contracts)

The following research grants and contracts were in effect during the report period.

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| 1. | Research grant from NASA L. B. Johnson Space Center, Houston, Texas, entitled "Mineralogy, petrology and chemistry of breccias, mare basalts and cores".
Feb. 1, 1978-Jan. 31, 1981 | \$180,996.00 |
| 2. | Research grant from NASA Headquarters, Washington, D. C., entitled "The formation and evolution of stony meteorites".
March 1, 1978-Feb. 28, 1981 | \$145,597.00 |
| 3. | Research grant from NASA Headquarters, Washington, D. C., entitled "The formation and evolution of stony meteorites".
March 1, 1979 Feb. 28, 1981 | \$102,390.00 |
| 4. | Research grant from NASA Headquarters, Washington, D. C., entitled "Chemical weathering on Mars: Theoretical and terrestrial analog studies of possible processes and products".
March 1, 1979-Feb. 28, 1981 | \$100,839.00 |
| 5. | Research grant from NASA L. B. Johnson Space Center, Houston, Texas, entitled "Origin and evolution of lunar crust, mare basalts and regolith".
Feb. 1, 1979-Jan 31, 1981 | \$121,995.00 |
| 6. | Supplement to item 5 | \$ 2,500.00 |
| 7. | Research contract with Sandia Laboratories, Albuquerque N.M. entitled "Shale and tuff in Nevada: Potential for nuclear waste disposal".
Dec. 1, 1979 - Sept. 30, 1980 | 26,624.00 |
| 8. | Research grant from NASA Headquarters, Washington, D.C., entitled "The formation and evolution of stone meteorite parent bodies".
March 1, 1980 - Feb. 28, 1981..... | \$ 85,741.00 |
| 9. | Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Origin and evolution of the lunar crust and mare basalts". | |

	Feb. 1, 1980 - Jan. 31, 1981	\$ 99,910.00
10.	Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Origin and evolution of the lunar crust". Feb. 1, 1981 - Jan. 31, 1982	\$104,150.00
11.	Research grant from NASA Headquarters, Washington, D.C., entitled "The formation and evolution of stony meteorities." March 1, 1981 -Feb. 28, 1982	\$ 94,249.00
12.	Research grant from NASA Headquarters, Washington, D.C., entitled "Chemical weathering on Mars: Theoretical and terrestrial analog studies of possible processes and products". March 1, 1981 - Sept. 30, 1981	\$ 30,051.00
13.	Research grant from NASA Headquarters Washington, D.C., entitled "Origin of clay-bearing soil on planetary surfaces: Hydrothermal alteration of impact melt rocks and breccias". Oct. 1, 1981 - Sept, 30, 1982	\$ 56,782.00
14.	Research contract with Sandia National Laboratories, Albuquerque, N.M., entitled "Potential of silicic volcanic tuff for the disposal of high-level nuclear waste" Oct. 1, 1980 - Sept. 30, 1981.....	\$ 29,909.00
15.	Research contract with Sandia National Laboratories, Albuquerque, N.M., entitled "Literature search, Nevada Test Site" Jan. 15, 1981 - Sept. 30, 1982	\$ 7,119.00
16.	Research contract with Sandia National Laboratories, Albuquerque, N.M. entitled "Silicic volcanic tuff at Nevada Test Site: Geologic support of physical properties measurements". Oct. 1, 1981 - Sept. 30, 1982	\$ 30,139.00
17.	Research grant from NASA L.B. Johnson Space Center, Houston Texas, entitled "Origin and evolution of the lunar crust". Feb. 1, 1982 - Jan. 31, 1983	\$ 97,995.00
18.	Research grant from NASA Headquarters, Washington, D.C. entitled "The formation and evolution of stony meteorites". March 1, 1982 - Feb. 28, 1983	\$107,988.00
19.	Research equipment grant from the National Science Foundation entitled "Partial funding of electron microprobe X-ray analyzer".	

July 1, 1982..... \$180,000.00

Total grants and contracts in effect during
this report period. \$1,604,974.00

5.6. Activities in Learned and Professional Societies

5.6.1. Offices held

Klaus Keil

1. Convener and organizer, one-day Symposium on "Geological aspects of high-level nuclear waste disposal in igneous rocks", held in conjunction with the Geological Society Meeting, Rocky Mountain Section, Bozeman, Montana, May 1982.
2. Member, Advisory Committee on Comparative Planetology, International Union of Geological Sciences.
3. Chairman, Session on "Parent bodies", Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
4. Member, Nominations Committee, Mineralogical Society of America.

E.R.D. Scott

1. Member, Leonard Medal Committee, Meteoritical Society.

5.6.2. Meetings attended

Klaus Keil

1. Attended Meteoritical Society Meeting, La Jolla, Calif., presented paper and co-authored 5 others. Sept. 2-6, 1980
2. Attended Meteoritical Society Meeting, Berne, Switzerland, chaired session, presented 3 papers and co-authored 6 papers. Aug. 17-21, 1981.
3. Attended Rocky Mountain Sectional Meeting, Geological Society of America, Bozeman, Montana, organized and chaired "Symposium on the disposal of high-level nuclear waste in igneous rocks." May 6-8, 1982.

E.R.D. Scott

1. Attended Meteoritical Society Meeting, La Jolla, California, and presented 1 talk. Sept. 3-5, 1980.
2. Attended Meteoritical Society Meeting, Berne, Switzerland, and presented 2 talks. Aug. 17-21, 1981.

C.C. Allen

1. Attended Division of Planetary Science Meeting, Amer. Astronomical Society, Tucson, Arizona, and presented 1 talk. Oct. 14-17, 1981.
2. Attended Meteoritical Society Meeting, Berne, Switzerland, and presented 1 talk. Aug. 17-21, 1981.

A. Okada

1. Attended Meteoritical Society Meeting, La Jolla, California, and presented 1 talk. Sept. 2-6, 1980.

P.H. Warren

1. Attended Meteoritical Society Meeting, La Jolla, California, and presented 1 talk. Sept. 2-6, 1980.
2. Attended Meteoritical Society Meeting, Berne, Switzerland, and presented 1 talk. Aug. 17-21, 1981.

J.R. Connolly

1. Attended Rocky Mountain Sectional Meeting, Geological Society of America, Bozeman, Montana, and presented 1 talk. May 7-8, 1982.

J. McKinley

1. Attended Meteoritical Society Meeting, Berne, Switzerland, and presented 1 talk. Aug. 17-21, 1981.

S.G. McKinley

1. Attended Meteoritical Society Meeting, Berne, Switzerland, and presented 1 talk. Aug. 17-21, 1981.

A.E. Rubin

1. Attended Meteoritical Society Meeting, La Jolla, California, and presented 2 talks. Sept. 2-6, 1980.
- 5.6.3. Presentations at Professional Society Meetings (speaker* ; student author).
1. J.L. Berkley* and K. Keil: Ureilites revisited: petrologic evidence for a cumulate origin. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
 2. J.L. Gooding*, K. Keil, T.K. Mayeda, R.N. Clayton, T. Fukuoka and R.A. Schmitt: Oxygen isotopic compositions of petrologically characterized chondrules from unequilibrated chondrites. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.

3. K. Keil^{*}, J.L. Berkley and L.H. Fuchs: Suessite Fe₂Si, a new mineral in the North Haig ureilite. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
4. A.E. Rubin^{*} and K. Keil: Mineralogy and petrology of the Abee enstatite chondrite. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
5. A.E. Rubin^{*}, K. Keil, G.J. Taylor, M.S. Ma, R.A. Schmitt and D.D. Bogard: A heterogeneous lithic fragment in the Bovedy L3 chondrite: Origin by impact-melting of porphyritic chondrules. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
6. A. Okada^{*}, K. Keil and G.J. Taylor: The Norton County enstatite achondrite: A brecciated, plutonic igneous rock. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
7. E.R.D. Scott^{*}: Thermal history of chondrites containing rapidly solidified metal-troilite inclusions. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
8. M. Shima^{*}, S. Murayama, H. Yabuki and A. Okada: Petrography, mineralogy, and chemical composition of the chondrite Nogata, Nogata-shi, Fukuoka-ken, Japan: oldest observed fall in the world. Meteoritical Society Meeting, La Jolla, Calif., August 2-6, 1980.
9. P.H. Warren^{*}: Excentric lunar anomalies, geochemistry correlated with longitude. Meteoritical Society Meeting, La Jolla, Calif., Aug. 2-6, 1980.
10. C. C. Allen^{*}, J. L. Gooding, M. Jercinovic, and K. Keil: Altered basaltic glass-A Martian soil analog. Division of Planetary Sci. Meeting, Tucson, Arizona.
11. W. L. Mansker^{*}, K. Keil, J. Husler and R. A. Schmitt: A petrologic comparison of nephelinites and melilite nephelinites: Implications regarding their evolution. Ann. Meeting, Geological Soc. America, Atlanta, Georgia.
12. S. E. Barker^{*}, A. M. Kudo and K. Keil: Mineral chemistry and chemical modelling of basalts from Holes 483, 483B, 485A, DSDP Leg 65, East Pacific Rise, Gulf of California. Fall Meeting, Amer. Geophysical Union, San Francisco, Calif., Dec. 1980.
13. C. C. Allen^{*} and K. Keil: Hydrothermal alteration of melt rocks in impact craters. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
14. D. D. Bogard^{*}, G. J. Taylor, K. Keil, M. R. Smith, R. A. Schmitt and J. Danon: Impact melting and brecciation of the Cachari eucrite 3.0 Gy ago. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.

15. J. Danon, M. Christophe Michel-Levy, C. Jehanno, K. Keil*, C. B. Gomes, R. B. Scorzelli and I. Souza Azevedo: Awaruite (Ni₂Fe) in the genomict LL chondrite Parambu: Formation under high FO₂. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
16. J. L. Gooding, K. Keil*, T. Fukuoka and R. A. Schmitt: Correlations between physical and petrological properties of chondrules. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
17. J. P. McKinley*, G. J. Taylor and K. Keil: The origin of Apollo 16 dimict breccias. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
18. S. G. McKinley*, E. R. D. Scott, G. J. Taylor and K. Keil: A unique type 3 ordinary chondrite containing graphite-magnetite aggregates: Allan Hills A77011. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
19. A. Okada and K. Keil*: Caswellsilverite, NaCrS₂, a new mineral in the Norton County enstatite achondrite. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
20. A. E. Rubin*, E. R. D. Scott, G. J. Taylor and K. Keil: The Dimmitt H chondrite regolith breccia and implications for the structure of the H chondrite parent body. Meteoritical Society Meeting, Berne, Switzerland, Aug. 17-21, 1981.
21. E. R. D. Scott*, G. J. Taylor, P. Maggiore, K. Keil, S. G. McKinley and H. Y. McSween, Jr.: Three CO₃ chondrites from Antarctica--Comparison of carbonaceous and ordinary type 3 chondrites. Meteoritical Society Meeting, Berne, Switzerland, August 17-21, 1981.
22. A. M. Kudo*, S. E. Barker, K. Keil and M. H. Beeson: Coherence of major and trace element modelling: Evidence for fractional crystallization of basalts from DSDP Leg 65, East Pacific Rise. Meeting of the Amer. Geophys. Union, San Francisco, Calif., Dec., 1981.
23. P.H. Warren*: Eucrites and the Moon: Regularities among europium anomalies. Meteoritical Society Meeting, Berne, Switzerland, Aug. 17-21, 1981.
24. J.R. Connolly*: Structure and metamorphism of Precambrian Cibola gneiss and Tijeras greenstone, Bernalillo County, N.M. Rocky Mountain Sectional Meeting, Geological Society of America, Bozeman, Montana, May 7-8, 1982.

5.7. Other Professional Activities

Klaus Keil

1. Consultant, Sandia National Laboratories, Albuquerque, N.M.
2. Reviewed four proposals submitted to NASA for funding.
3. Reviewed fourteen scientific papers submitted for publication in Geochimica et Cosmochimica Acta, Meteoritics, Science, and Nature.
4. Several interviews with Lobo, Albuquerque Tribune and Journal, regarding Caswellsilverite (a new mineral).
5. Served on Program Committee for 12th Lunar and Planetary Science Conference, held in Houston, Texas.
6. Served on 4-man review panel of Geology Department and its programs, North Carolina State University, Raleigh, North Carolina.
7. Appointed Distinguished Visiting Scientist, Jet Propulsion Laboratory, Pasadena, California (for 1981).
8. Member, Editorial Board, Journal "Chemical Geology".
9. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Col.
10. Chairman, Lunar and Planetary Science Council, Universities Space Research Association, Houston, Texas.
11. Member, Antarctic Meteorite Working Group, National Science Foundation - National Aeronautics and Space Administration.
12. Member, Editorial Board, Tschermak's Mineralogisch-Petrographische Mitteilungen, Vienna, Austria.
13. Carried out extensive survey of existing electron microprobes, including field visits to 3 manufacturers, for the purpose of purchasing a new instrument for the Department of Geology and Institute of Meteoritics.
14. Assisted in the design and supervision of the construction of new laboratories in the Geology Building (Northrop Hall), UNM.
15. Organized field trip to Meteorite Crater, Arizona, for students and staff.
16. KUNM News Interview with Jim Shields on Associate Editorship for Journal of Geophysical Research.
17. Hosted the meeting of the New Mexico Microbeam Analysis Society and their annual national tour speaker, Dr. Charles Evans. Dr.

- Evans presented 2 talks on "Advances in thin film microanalysis and scanning Auger electron spectroscopy" and "Secondary ion mass spectrometry". Oct. 20, 1981.
18. Television Press Conference (with Dr. A. Okada) on the newly discovered mineral caswellsilverite. Oct. 9, 1981.
 19. Gave radio interview on caswellsilverite, a newly discovered mineral, Oct. 15, 1981.
 20. Gave radio interview for Radio Free Europe on research activities of the Institute of Meteoritics. Oct. 17, 1981.

G.J. Taylor

1. Group Chief, Lunar and Planetary Review Panel, Lunar and Planetary Institute, Houston, Texas.
2. Member, Lunar and Planetary Sample Team, NASA L.B. Johnson Space Center and Lunar and Planetary Institute, Houston, Texas.
3. Reviewed articles, submitted for publication to Geochim. Cosmochim. Acta (9), Earth Planet. Sci. Lett. (2), Meteoritics (3), Proc. Lunar Planet. Sci. Conf. 12th (4) and 13th (1), and Conf. on Multi-Ringed Basins (1).
4. Reviewed proposals submitted to the National Science Foundation and 55 submitted to NASA.
5. Co-organizer of Workshop on "Lunar breccias and soils and their meteoritic analogs", sponsored by the Lunar and Planetary Institute, Houston, Texas.
6. Member of Steering Committee for workshop on "Pristine Highlands rocks and the early history of the Moon".

E.R.D. Scott

1. Reviewed articles submitted for publication in Icarus (2), Meteoritics (2), Geochim. Cosmochim. Acta (5), Earth Planet. Sci. Lett. (4), Nature (2), Contr. Mineral. Petrol. (1), J. Geophys. Res. (1), and Proc. Lunar Planet. Sci. Conf. 12th (2).
2. Reviewed one grant proposal submitted to the National Science Foundation and 3 to NASA.
3. Reviewed book on Meteorites by R.T. Dodd, publ. in Amer. Scientist 70, p. 314, 1982.
4. Reporter for Smithsonian Institution Scientific Event Alert Network.
5. Interview with KOB channel 4 TV News on fireballs, Nov. 16, 1981.

C.C. Allen

1. Scanning electron microscopy consultancies with Leonard Mineral Co. Terra S.W. Doma Corp.; N.M. Environmental Improvement Division; Bureau of Land Management; and Sandia National Laboratories.
2. Reviewed 5 proposals for NASA and papers for the American Mineralogist; Journal of Geophysical Research; and Icarus.
3. Summer teaching at UNM, July, 1981, Geology 209 "The Earth Environment".

A. Kracher

1. Wrote 2 articles for Austrian Newspapers.

P.H. Warren

1. Reviewed 3 papers submitted for publication in Proc. 12th Lunar and Planetary Science Conference, 1 paper to Earth and Planetary Science Letters, 1 paper to Proc. 13th Lunar and Planetary Science Conference, and 2 proposals submitted to NASA.

J.R. Connolly

1. Part-time consultant to Sun Gas Company, Dallas, Texas; Devel and Associates, Environmental Consultants, Albuquerque, N.M.; Santa Fe Mining, Inc., Albuquerque, N.M.; and Anaconda Minerals Comp., Denver, Colorado.

J. McKinley

1. Reviewed 2 papers submitted for publication in the Proceedings of the 12th Lunar and Planetary Science Conference.
2. Instructed visiting student from the University of Arizona in the use of the luminoscope.

A.E. Rubin

1. Reviewed 1 paper for Geochim. Cosmochim. Acta and 1 for the Proc. of the 13th Lunar and Planetary Science Conference.

5.8. Non-Teaching University ServiceKlaus Keil

1. Administration of Institute of Meteoritics and its collections.

2. Chairman and member of several thesis and dissertation committees in the Department of Geology.
3. Served on UNM - University of Sao Paulo, Brazil joint research and exchange program committee.
4. Participated in Parent Day, UNM.
5. Chaired committee on promotions of Associate Professors, Department of Geology, UNM.
6. Served as Director of the Caswell Silver Foundation, Department of Geology, UNM.
7. Chaired search committee for Caswell Silver Distinguished Professor, Department of Geology, UNM.
8. Served on A & S Search Committee for a new Dean, UNM.
9. Served on several M.S. and Ph.D. comprehensive examinations committees.
10. Assisted in designing and setting up of Department of Geology-Institute of Meteoritics exhibit at New Mexico State Fair, 1981.
11. Assisted in design and supervision of renovation of basement into laboratories, Dept. of Geology Building.
12. Served on Department of Geology Committee to revise requirements for geology Ph.D. program at UNM.
13. Conducted tour of Meteorite Museum for UNM Alumni Board orientation, June 19, 1982.

G.J. Taylor

1. Served on Department of Geology thesis defense committees for M.S. thesis by S. Barker (Oct., 1980) and Ph.D. qualifying examination of A.E. Rubin (Nov. 1980).
2. Participated in tour of university laboratories by group of Congressional Staff Members on committees involving the National Science Foundation.
3. Gave presentation about the electron microprobe to group during Legislator's Day.
4. Taped two 15-minute television shows about planetary science for Instructional Media Services; these shows were broadcast on UNM's cable station.

5. Assisted in design and setting up of Department of Geology-Institute of Meteoritics exhibit at New Mexico State Fair, 1981.

E.R.D. Scott

1. Curator, Meteorite Collection, Institute of Meteoritics, UNM.
2. Assisted in design and setting up of Department of Geology-Institute of Meteoritics exhibit at New Mexico State Fair, 1981.

G. Conrad

1. Had Department supervisory task for remodelling of basement of the Department of Geology-Institute of Meteoritics Building (Northrop Hall), for construction of 5 high-quality laboratories for electron beam instrumentation.

C.C. Allen

1. Gave several Scanning Electron Microscopy demonstrations and short courses for Geology Department students, faculty and alumni.

P.H. Warren

1. Advised Department of Geology on a new computer to be purchased for word processing.

5.9 Public Service

Klaus Keil

1. Many private showings of moon rocks to interested citizens, school classes, civic groups, etc., many of which were after working hours and on weekends.
2. Many private showings of the meteorite museum to interested citizens, school classes, civic groups, etc., many of which were after working hours and on weekends.
3. Investigated without charge many rocks suspected to be meteorites and brought to the Institute by citizens.
4. Presented talk on "Jupiter, Saturn, and their moons: Results of the Voyager fly-by missions", Career Enrichment Center, Astronomy Class, Albuquerque, N.M., Nov. 6, 1980.
5. Presented talk on "Jupiter, Saturn and their moons: Results of the Voyager fly-by missions", Santa Fe Geological Society, Santa Fe, N.M., November 21, 1980.

6. Presented talk on "Mars: Results of the Viking Missions", Albuquerque Astronomers, Albuquerque, N.M., December 12, 1980.
7. Guided tour of Institute of Meteoritics, Meteorite Museum, and presentation on research in the Institute, to students of the Southwest Resource Center for Science and Engineering, December 13, 1980.
8. Presented talk in "Jupiter, Saturn and their Moons: Results of the Jupiter fly-by missions". Santa Fe Astronomers, Santa Fe, N.M. June 15, 1981.
9. Presented talk on "The future in Space" at the UNM German Summer School, Taos, N.M. July 7, 1981.
10. Presented talk on "Jupiter, Saturn and their Moons: Results of the Jupiter fly-by missions". Albuquerque Science Fiction Club, Albuquerque, N.M. July 11, 1981.
11. Presented talk to Mensa Organization, Albuquerque, N.M., on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by missions". Sept. 19, 1981.
12. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by Missions", to Albuquerque Gem and Mineral Club. Sept. 28, 1981.
13. Hosted Astronomy Class of Albuquerque Career Enrichment Center, showed Meteorite Museum, and presented talk on "Lunar geology". Oct. 1, 1981.
14. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by Missions" to Masonic Lodge, Albuquerque, N.M. Oct. 22, 1981.
15. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by missions" to McKinley Middle School, Albuquerque, N.M. Nov. 30, 1981.
16. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by missions" to Solomon Middle School, Los Lunas, NM. Dec. 8, 1981.
17. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by missions" to Four Corners Geological Society, Farmington, NM. Dec. 10, 1981.
18. Assisted Laura Trauth, a local high school student, in the study of "The chemical and physical properties of rings in prehistoric alligatorian and crocodillion fossil teeth", which she submitted as a Science Fair Project.

19. Presented talk on "Jupiter, Saturn and their Moons: Results of the Voyager fly-by missions" to Albuquerque Senior Citizens Rock Hound Club, Albuquerque, N.M. March 4, 1982.
20. Met with Senator Harrison "Jack" Schmitt to discuss future of planetary science in US and NASA funding. May 8, 1982.

G.J. Taylor

1. Many tours of meteorite museum and showings of lunar samples to interested citizens, school classes, etc.
2. Talk to Kindergarten class at "A Childs Garden School", January 22, 1981.
3. Talk at Griego Elementary School, February 10, 1981.
4. Talk at Southwest Gem and Mineral Show, Albuquerque State Fair-grounds, March 29, 1981.
5. Talk at Whittier Elementary School, April 28, 1981.
6. Gave talk to third grade class at Dennis Chavez Elementary School, March 10, 1982.
7. Gave tour of Meteorite Museum to first grade class from Alameda Elementary School, May 11, 1982.
8. Gave talk to fifth grade enrichment class at Bandelier Elementary School, May 21, 1982.
9. Judged Science Fair at Wilson Middle School, March 2, 1982.
10. Gave talk to Albuquerque Rock Hounds, May 4, 1982.
11. Gave tours of meteorite museum to several individuals during the report period.

E.R.D. Scott

1. Investigated several rocks suspected to be meteorites brought to the Institute by citizens of New Mexico.
2. Conducted tours of Meteorite Museum and presented talks on meteorites to groups as follows:
 - a) Heights Community Center, July 14, 1980.
 - b) Eldorado High School geology students, Sept. 23, 1980.
 - c) Manzano Base School, October 7, 1980.
 - d) Manzano Base School, October 14, 1980.
 - e) Sunset Mesa School, November 3, 1980.
 - f) UNM Physics and Astronomy Class, November 6, 1980.
 - g) Montgomery School, November 11, 1980.
 - h) Manzano High School, December 18, 1980.

- i) Ashbury School, April 9, 1981.
- j) Alvarado Day School, April 29, 1981.
- k) Manzano High School, Dec. 8, 1981.
- l) Sandia Base School, Jan. 14, 1981.
- m) Los Lunas School, April 20, 1982.
- n) Alpha Academy, May 26, 1982.

C.C. Allen

1. Gave seminar and lead field trip for students at Sandia Preparatory School.
2. Gave SEM demonstration for State Legislators.
3. Gave SEM demonstrations for various pre-school classes.

A. Kracher

1. Investigated several samples thought to be meteorites that were submitted by citizens.

G. Conrad

1. Conducted eleven tours of electron microprobe laboratory, Department of Geology and Institute of Meteoritics, UNM.

J.S. Allen

1. Tour of Geology and Meteorite Museums for Sandia Preparatory School students.
2. Two Geology field trips and basic geology talks for Sandia Preparatory School students.
3. Basic geology talk to Bluebirds.

A. Rubin

1. Several private showings of Meteorite Museum and electron microprobe laboratory.
2. Gave talk on "Planetary Geology" to Mark Twain Elementary School. Oct., 1981.

D. Arens

1. Operated scanning electron microscope for biology graduate students doing thesis research and for two engineers from the UNM Department of Engineering.

5.10. Personal Information

A. Rubin

1. Married Dorene J. Hamerman, August 3, 1980.

C. Allen and J.S. Allen

1. Daughter, June 2, 1981.

M. Jercinovic

1. Married Devon Rose, August 24, 1981.

THE REPORT OF THE DEPARTMENT OF HISTORY

July 1, 1981 - June 30, 1982

Janet Roebuck, Chair

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements:

1. The Department conducted a "Unit Review" this year. This consisted of a self-study followed by an evaluation by prominent historians from other universities. We were extremely fortunate in being able to host such outstanding persons as Peter Smith (Latin American History, MIT), Gary Nash (U.S. History, UCLA), F. Roy Willis (Modern European History, University of California, Davis), and Jeremy Sabloff (Anthropology, UNM). The process, which will be completed when the results of the external evaluators arrive will provide new directions for the Department in coming years.
2. The Department offered a "telecourse", History 161/162, the U. S. History survey on PBS television during fall and spring semesters. This course was aimed at persons who were not able to enroll on the main campus, and the majority of the students came from various Indian pueblos and reservations around the state. Mr. Michael Welsh, History Ph.D. ABD, was the instructor.
3. Professors Kern, Bakewell, Porter and Kramer conducted courses, both fall and spring semesters, in the rise and decline of colonialism in the world. This project

was sponsored by a grant from the Department of Education.

4. The Department adopted the "machine-readable" instructor/course evaluation forms (ICES).
5. The following courses were added to the History curriculum:
 510. Seminar and Studies in History
 565. Seminar and Studies in Southern History
6. The following courses were added to the History schedule under 320. "Studies in History."
 - History of the American Family
 - The West, Myth and Reality
 - The History of Aging
 - History of Latin America
 - 20th Century Chicano History
 - History of the Caribbean, 1750-Present
 - The History of Medicine
 - The History of Religion in America
 - Makers of the Modern World
 - Unearthing the Past: The History of Archaeology
7. Activities Beyond the Formal Curriculum:
 - a. Three History journals, The Historian, Editor, Gerald D. Nash; The New Mexico Historical Review, Editor, Richard Etulain; and the Hispanic American Historical Review, Editor, John Johnson, Associate Editor, Peter Bakewell, Book Review

Editor, Edwin Lieuwen, continue as part of the Department.

- b. The Low Countries Newsletter was edited by Professor Steven Kramer.
- c. Professor Steven Kramer was co-director of the French Summer School in Taos in the summers of 1981 and 1982.
- d. The departmental Newsletter was edited by Professor Michael Conniff and distributed to 400 universities and History Ph.D. alumni.
- e. Professors Robert Kern and David Maciel continue to work on a \$90,000 grant from the Carpenter's Union and the NMHC to compile a history of the Carpenters' Union in New Mexico. Collaborating on this project are six other UNM professors in history, sociology and economics.
- f. Research Associate Professor, John Kessell, was awarded a fellowship from the John Simon Guggenheim Memorial Foundation to edit the journals of Diego de Vargas.
- g. Professor Charles McClelland began research in Germany on the rise of modern professional organizations and their influence on German higher education from 1850 to 1933 under the auspices of an Alexander von Humboldt Fellowship.
- h. On December 7, Dr. Carmen Castenada, University of Texas, gave several public lectures on Mexican

education in the Colonial period, as well as on historiography and historical education.

- i. Susan Porter Benson, Assistant Professor of History at Bristol Community College, Fall River, Mass. gave an address to History faculty and graduate students on "The Customer Ain't God: The Work Culture of Department Store Saleswomen 1890-1940."
- j. David McCullough, well-known author of a biography on Theodore Roosevelt, and Pulitzer Prize winner for his book on the Panama Canal, gave several lectures and colloquiums in the Department and on campus on "Some Methodological Considerations in Writing Biography," "History as Literature: the Case of the West" (moderator, Professor Richard Etulain).
- k. On April 23, Dr. Giuliano Amato, Professor of Political Science, University of Rome, and political columnist of the newspaper, La Repubblica, gave a public lecture on "Problems of Italy Today."
- l. Three lectures were given by Professor Simon Collier, distinguished historian of Latin American History from the University of Essex in England on May 7. His topics were "Conservation in Chile 1830-1860," "Liberalism in Chile, the late 19th century," and an illustrated lecture on Tango and Carlos Cardel.

- m. Dr. Robert Kastenbaum, Editor of Aging and Human Development and Director of Adult and Aging Programs at Arizona State gave a lecture on April 29 entitled: "The Past and Future of Death."
 - n. The Department participated in Parent's Day in October. 40-50 faculty and parents met informally in the Department Commons Room to listen to a series of mini-lectures: Professor Charlie Steen, "Louis XIV and the Splendid Life at Versailles" and Professor Donald Cutter on "Hispanic Adventure in New Mexico."
 - o. The Department also participated in History Day in March and High School Senior Day in April. Professors Charlie Steen and Gerald Nash were available with an exhibit to give advisement. Several professors hosted State Legislators in their tour of the campus on Legislator's Day on November 13 in an effort to improve our relationship with the legislature and to acquaint them with the central business of the University.
 - p. An informal get together for history undergraduate students was held on April 8 in the Department's Common Room. Approximately 50 students and faculty attended.
8. Honors
- a. Sandra Schackel received the France V. Scholes Memorial Award.

- b. A Graduate Tuition Award was given to Michael Casillas.
- c. The Charles Florus Coan Award for the graduating senior with the highest GPA was awarded to Catherine Scheck.
- d. Annabelle Oczon and Matthew Doty were recipients of the Grunsfeld Award.

B. Significant Plans and recommendations for the near future.

1. The Department of History is planning to establish an Applied and Public History Program in 1982-83. The Program is designed to train students for practical careers in private enterprise as well as in government agencies at the federal, state and local level. Students seeking careers in museums, historical societies, archives, federal agencies (such as the National Park Service, military or agency historians, energy-related agencies), historic preservation, contract archaeology and historical editing will find this program helpful as well as those contemplating certain types of careers in the business world. The program will offer courses in museum work, archival management, environmental law, historic preservation, the Historian in Government, and related courses. Internship arrangements have been worked out with the New Mexico Historical Review, The Historian, the University of New Mexico Press, the Museum of Albuquerque,

the New Mexico State Records and Archives Center, The Museum of New Mexico, and arrangements with the Regional Office of the National Park Service in Santa Fe and with Albuquerque City government are being concluded.

C. Appointments to Staff:

1. Visiting or Part-time appointments

- a. Anne Boylan, Visiting Assistant Professor, U.S. survey and Family History, academic year, 1980-81 (part-time).
- b. John J. Johnson, Professor (part-time), Editor, Hispanic American Historical Review, academic year 1981-82. Taught 320. "The History of Latin America," in the spring semester.
- c. Michael Welsh, 161-162, U. S. History survey, Lecturer, Community College, "Telecourse", academic year, part-time. Also taught 220-04 "The West in Films" for History credit through Community College.
- d. Leigh Wright, Professor, University of Hong Kong, Exchange Professor replacing Professor Frank Ikle. Far Eastern History, Semester II, 1982.
- e. Patrick Bryan, Visiting Associate Fulbright Professor, University of West Indies, Jamaica, Semester II, 1982. Caribbean History.
- f. Frank Wozniak, Lecturer, Semester II, 1982, Western Civilization.

g. Professor William M. Dabney taught a course in Constitutional History at the Santa Fe Graduate Center in the fall of 1981.

2. Assistant Chairman, 1981-82:

Professor Donald Sullivan

3. Tenure:

David Maciel

Separations from Staff:

1. Donald Cutter, Professor, retired

2. Marion Honhart, Clerical IV, retired

E. Sponsored Research

1. Approximately nine professors submitted 25 proposals (32% of the current faculty).

2. Of these nine professors submitting proposals, seven obtained awards (24%, of the current faculty).

II. Composite of information requested on individual biographical supplements: (period January 1, 1981 to December 31, 1981.)

2. SABBATICALS, SUMMER TEACHING, TRAVEL, ETC.

- BAKEWELL, Peter J. Travel to Mexico (Zacatecas, Guadalajara, Mexico City, Puebla) in May and June 1981 for photographing of historical buildings and inspection of historical archives.
Travel to Mexico (Guadalajara, Aug. 1981) (Mexico City, December, 1981) to attend and participate in historical meetings.
- BOYLAN, Anne M. Travel to New York, summer 1981 for research and to attend a scholarly meeting.
- CONNIFF, Michael L. Leave without pay on Fulbright grant, Jan.-Aug. 1981. Residence and research in Panama, research in Nicaragua and Guatemala.
- CUTTER, Donald C. Jan. trip to Spain (Madrid and Sevilla) doing research on New Mexico Indian lands. March trip to Mexico (Guadalajara and Mexico City) for same purpose. Summer trip to Spain for research and implementation of cooperative research grant on Museum Exhibits concerning Spanish Cultural Heritage in the Southwest.
- ETULAIN, Richard W. Research trip: July 1-Aug. 15, 1981. Research at Huntington, UCLA, Bancroft, and U. of Oregon libraries. Also Oregon Historical Society, Portland, Oregon.
- IKLE, Frank W. Travel and research in Europe, Summer 1981, Germany, France, Switzerland, Yugoslavia, Ireland.
- JOHNSON, John J. Travel in France, 17 days.
- KRAMER, Steven P. Sabbatical, Semester I, 1981. Research in Western Europe for book on "The European Socialist Experience." Taught and directed French Summer School of N.M. in Taos, summer 1981.

- LIEUWEN, Edwin July 1981--lectures at University of New South Wales, Sydney, Australia and LaTrobe University, Melbourne, Australia.
- MACIEL, David R. Mexico, summer of 1981.
- McCLELLAND, Charles Sabbatical, Semester II, 1980-81. Travel to Riverside, California as member of External Review Team for History Department, University of California; to Seattle, Washington to present comment on panel of Western Association for German Studies annual meeting.
- NASH, Gerald D. Sabbatical leave, Spring 1981, travel through American West for research in Arizona, Colorado, Wyoming, California, Oregon, Texas, Washington, D.C., and Hyde Park, N.Y.
- PORTER, Jonathan Leave without pay, Semester I (Fall): extensive travel in China, Macau, Taiwan preparing for book.
- PUGACH, Noel H. Half year sabbatical. Project: The China Arms Embargo in the 1920s. Did research in Washington, D.C. (National Archives) and New York (Columbia University).
- RABINOWITZ, Howard Travel in Germany, France, England, Scotland and Ireland, June-July 1981.
- ROBBINS, Richard Jr. On leave semester II of 1980-81; spent 5 months doing research in the USSR.
- SLAUGHTER, M. Jane Sabbatical leave, Fall 1981 - research for monograph, Women and the Italian Resistance completed in Rome and Milan, Italy.
- SULLIVAN, Donald D. Sabbatical leave, Fall, 1981 to Humanities Research Library, University of Texas, Austin and to University of Colorado, Boulder.

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

- CONNIFF, Michael L. Tenure and promotion to associate; presidential recognition award for high school relations and recruitment work, Aug. 1981.
- CUTTER, Donald C. Named Vice President of the 1700 member Pacific Coast Branch of the American Historical Association.
- ETULAIN, Richard W. Fellowship: American Philosophical Society, 1980-81; UNM-RAC (2); New Mexico Humanities Council--Humanities Newspaper Committee (successful); NEH, individual research grant (unsuccessful).
- JOHNSON, John J. ACLS Grant in Aid, Stanford University Travel Grant.
- KERN, Robert \$90,000 NEH project on New Mexico State Carpenters' Union. Principal investigator.
- KRAMER, Steven P. Named Adjunct Associate Professor of French History and Culture, Department of Modern and Classical Languages.
- MCCLELLAND, Charles Alexander von Humboldt Fellowship awarded for calendar year 1982 (with concurrent unpaid leave of absence from UNM).
- NASH, Gerald D. National Endowment for the Humanities Senior Fellowship, 1981; Project '87 (American Historical Association and American Political Science Association) Fellowship, 1981.
- RABINOWITZ, Howard One of 13 Americans brought to Germany to participate in the first of five conferences to encourage closer contacts between American and German scholars.
- ROBBINS, Richard Jr. IREX Grant for study in USSR. Fulbright-Hays grant for study in USSR.

4. PUBLICATIONSBOOKS

- CONNIFF, Michael Urban Politics in Brazil: The Rise of Populism, 1925-1945 (Pittsburgh: University of Pittsburgh Press, 1981), 228 pp.
- CUTTER, Donald C. (ed.) Journal of Tomas de Suria and His Voyage with Malaspina to the Northwest Coast of America in 1791. (Ye Galleon Press, Fairfield, WN) 90 pp.
- ETULAIN, Richard W. Basque Americans (coeditor). Detroit: Gale Research 1981, 169 pp.
- KERN, Robert Coeditor and contributor, European Women on the Left: Feminism, Socialism and the Problems Faced by Political Women, 1881 to the Present (Westport, Conn.: Greenwood, 1981, 289 pp.
- MACIEL, David R. Al Norte del Rio Bravo, pasado inmediato, 1930-1981. Mexico: Siglo XXI, 1981. Al Norte del Rio Bravo, pasado lejano, 1600-1930. Mexico: Siglo XXI, 1981. (Co-authored with Juan Gomez-Quinones.)
- SLAUGHTER, M. Jane European Women on the Left (Westport, Conn.: Greenwood Press, Sept. 1981) coedited with Robert Kern.

ARTICLES

- BAKEWELL, Peter J. 'Bolivia' -- pp. 2-51 of John J. TePaske (ed.) Research Guide to Andean History (Duke University Press, Durham, NC 1981). (compiled and edited in collaboration with Judith R. Bakewell).
- CUTTER, Donald C. "Introduction" to Vol. 1, New Mexico Historical Review Reprint Series (NMHR, 1981). "Introductions" to Vols. 2 and 3 in same Reprint Series (NMHR, 1981).

- ETULAIN, Richard W. "Changing Images: The Cowboy in Western Films." Colorado Heritage 1 (1981): 37-55; "Introduction," "Owen Wister, the West, and the Cowboy Hero." Idaho Humanities Forum, Winter 1981, pp. 2-3.
- IKLE, Frank W. "The Humanities in a Post-Industrial Society: Japan," Halcyon, 1981, pp. 83-97.
- KERN, Robert "Craft Union History in New Mexico," Federation Reports (Federation of Public Programs in the Humanities) 4, no. 2 (Nov. 1981), pp. 72-77.
- KRAMER, Steven P. "The Political Role of the Commis-saires Regionaux de la Republique," on demand supplement, Journal of Modern History, 53:11091-1114. "Dependency in Historical Perspective" Social Practice, 1981, pp. 12-20. "Abel Gance," La Quinzaine Litteraire, December 1, 1981, pp. 28-9. "Quebec's Political Future," Commonweal. "Un Americain parle du socialisme," La Lettre, Liege, pp. 4-5 (15 November 1981). "Misconceptions Cloud Alliance," Albuquerque Journal, July 17, 1981, p. A5. Articles in Century, "After the Fall," January 7, 1981, pp. 17-18; "The French Elections," April 15, 1981, pp. 16-18. Reply to article of Peter Pappas on Abel Gance in Cineaste.
- MCCLELLAND, Charles E. "A Modest Proposal for the Future of Higher Education in New Mexico," Century (2-part series, Sept. & Oct. 1981).
- NASH, Gerald D. "Energy Policy in Historical Perspective," Natural Resources Journal, vol. 21 (April, 1981), 341-55; "California and its Historians," Pacific Historical Review, vol. 52 (Nov., 1981), 333-368; "Business and Ethics," Reviews in American History (June, 1981), 201-206; "Historical Context of Energy Environment," Kirtland AF Lab: Symposium, 1980, Proceedings, 88-112.

- PORTER, Jonathan "Bureaucracy and Science in Early Modern China: The Imperial Astronomical Bureau in the Ch'ing Period," Journal of Oriental Studies, vol. 18 (1980, nos. 1 & 2).
- PUGACH, Noel "Human Rights and National Interest in United States Foreign Policy," (NM Humanities Newspaper Project), New Mexico Independent, Sept. 6, 1981, Sandoval County Times Independent, S pt. 11, 1981, etc.
- RABINOWITZ, Howard N. Review article: "Reps on the Range: An Anti-Turnerian Framework for the Urban West," Journal of Urban History, 8 (November 1981), 91-98.
- SULLIVAN, Donald D. "The End of the Middle Ages: Decline, Crisis or Transformation?" in: The History Teacher, 15 (1981), 551-65.
- SZASZ, Ferenc M. "The Real Basics of Education," The St. Croix Review XIII (Dec.-Jan. 1980/81), 24-26. "The American Quest for Religious Certainty, 1880-1915" in Sam B. Girgus, ed., The American Self: Myth, Ideology and Popular Culture (Albuquerque: UNM Press, 1981) 88-104. "T. DeWitt Talmage: Spiritual Tycoon of the Gilded Age," Journal of Presbyterian History 59 (Spring, 1981), 18-32.

REVIEWS

- BAKEWELL, Peter J. Morris B. Parker, Mules, Mines and and Me in Mexico, 1895-1932 (Tucson 1979) in New Mexico Historical Review (56:3, July 1981), p. 318; Thomas C. Barnes et al, Northern New Spain: a research guide (Tucson, 1981) in Journal of the West (20:4, October 1981), p. 90.
- BOYLAN, Anne M. Gerald Knoff, The World Sunday School Movement, Catholic Historical Review, July, 1981.

- CONNIFF, Michael L. Marta Cehelsky, Land Reform in Brazil (Westview), in Hispanic American Historical Review (Feb. 1981), p. 199.
- CUTTER, Donald C. Bandelier, The Discovery of New Mexico by the Franciscan Monk, Friar Marcos de Niza in 1539, for Hispanic American Historical Review. Derek Pethcik, The Nootka Connection: Europe and the Northwest Coast, 1790-1795, for Western Historical Quarterly. Herman W. Conrad, A Jesuit Hacienda in Colonial Mexico: Santa Lucia, 1576-1767, for History, Reviews of New Books. Thomas C. Barnes, Thomas H. Naylor, and Charles W. Polzer, Northern New Spain: A Research Guide, for Hispanic American Historical Review. The Spanish Censuses of Pensacola for The Journal of the West.
- ETULAIN, Richard W. Book reviews in Journal of the West, Western American Literature, Western Historical Quarterly, and others.
- KOLCHIN, Peter Edward Magdol and John L. Wakelyn, eds., The Southern Common People: Studies in Nineteenth-Century Southern History (Greenwood Press, 1980), in Agricultural History, Jan. 1981, 96-97. Donald G. Nieman, To Set the Law in Motion: The Freedmen's Bureau and the Legal Rights of Blacks, 1865-1868 (KTO Press, 1979), in The Historian, Feb. 1981, 289-90. James T. Currie, Enclave: Vicksburg and her Plantations, 1863-1870 (University Press of Mississippi, 1980), in Agricultural History, Oct. 1981, 418-19. Otto H. Olsen, ed., Reconstruction and Redemption in the South (Louisiana State University Press, 1980), in Civil War History, Dec. 1981.
- LIEUWEN, Edwin Hispanic American Historical Review: Feb. 1981, pp. 142-44, "Hunger in a Land of Plenty; May 1981, pp. 342-43, "The Fractured Continent,"; Aug. 1981, pp. 551-52, "Christian Democracy in Venezuela"; Nov. 1981, pp. 786-88, "America and the Third World."

- McCLELLAND, Charles E. Karl Pepper, Ausgangspunkte (German Studies Review, IV, 1981) AND of Anthony J. LaVepa, Prussian Schoolteachers (American Historical Review, LXXXVI, 1981).
- NASH, Gerald D. Book reviews for Pacific Historical Review, Nebraska History, Great Plains Quarterly, Natural Resources Journal, N.M. Historical Review.
- PUGACH, Noel H. Michael Schaller, The United States and China in the Twentieth Century, in Pacific Historical Review, L (November, 1981), 457-58. Gerald S. Graham, The China Station: War and Diplomacy, 1830-1860, in Pacific Historical Review L (Feb., 1981), 132-33.
- RABINOWITZ, Howard N. George Burns, The Third Time Around, Journal of the West, 20 (January, 1981), 86; William Gillette, Retreat from Reconstruction, 1869-1879, Wisconsin Magazine of History, 64 (Spring 1981), 226-28; Joel Williamson, New People: Miscegenation and Mulattoes in the United States, Journal of American History, 68 (September 1981), 353-54. Robert H. Bremner, The Public Good: Philanthropy & Welfare in the Civil War Era, Social Service Review, 55 (June 1981), 343-45.
- ROEBUCK, Janet Book reviews: 1 for American Historical Review and 1 for Journal of Social History.
- SPIDLE, Jake W. Hans-Christoph Schröder, Gustav Noske und die Kolonialpolitik des Deutschen Kaiserreichs in American Historical Review 6 (October 1981): 871.
- STEEN, Charlie R. Sutton, The King's Honor and the King's Cardinal for The History Teacher, Fall, 1981.
- SZASZ, Ferenc M. J.J. Brumberg, Mission for Life in Pennsylvania History (Jan. 1981) 89-90. (contd.)

S.D. Marble, Before Columbus in Hispanic American Historical Review (August 1981), 595. R. Roberts, Jack Dempsey: The Manassa Mauler in the New Mexico Historical Review (July 1981) 325-26.

5. OTHER RESEARCH PROJECTS

- BAKEWELL, Peter J. Continued preparation of book Labor in Potosí, 1545-1650. Advanced contract made with UNM Press for publication of this work.
- BERTHOLD, Richard M. 400 page history of ancient Rhodes completed; review for AHR completed.
- BOYLAN, Anne M. Continued work on a manuscript dealing with American Sunday schools in the 19th century. Continued research for a study of women's benevolent societies in the U.S., 1790-1840.
- CONNIFF, Michael L. Applied for support during sabbatical leave, 1982-83, to Rockefeller, SSRC, Gulbenkian, and Wilson Center (Smithsonian), for project writeup: "Black Panamanians: The Canal and the West Indian Legacy." Investigated the revolutionary experience of Nicaragua and counterinsurgency operations in Guatemala.
- CUTTER, Donald C. Consultant for International Exhibition "The Age of Carlos III and of the Enlightenment in Spain and New Spain" for Santa Barbara Museum and NEH. Principal Academic Consultant Hispanic Humanities Curriculum Institute at UNM July 6, Aug. 1. Research Associate for Museum of New Mexico.
- DABNEY, William M. Work in progress on Scottish officers who served in North America in the War of the American Revolution and the War of 1812 -- in particular Captain Charles Cochrane and Vice Admiral Sir Alexander Cochrane.

- ETULAIN, Richard W. Books: A Bibliographical Guide to Western American Literature, U. of Nebraska Press, forthcoming in 1982. Fifty Western Writers (coeditor), Greenwood Press, forthcoming in 1982. Conversations with Wallace Stegner on Western History and Literature, U. of Utah Press, forthcoming in 1982.
- IKLÉ, Frank W. Revised edition for paperback publication of A History of Asia. Completed article of "The position of women in Japanese History," in Proceedings, Third International Symposium on Asian Studies. Abstract for CLIO for Monumenta Nipponica.
- JOHNSON, John J. Four weeks research in the Public Record Office, Kew, England, on Great Britain and Latin America, 1815-30 on a ACLS grant of \$3,000.
- KERN, Robert Ed. book, High Desert Workers: New Mexico Labor Since, 1881, UNM Press, forthcoming 1982. A history of the United Brotherhood of Carpenters and Joiners, accepted for publication by Scholastic Press of America. Several articles for Dictionary of the Spanish Civil War. Three Monographs are in progress. Several monograph projects are in some state of research or written shape, including The Anarchists Between the Wars: The International Workingmen's Association, 1922-1940; The World that Was and Will Be: Intellectuals and Totalitarianism, 1939-1941; and Saragossa in the Spanish Civil War: A City Under Nationalist Control. Bilbao and the Basques during the Spanish Civil War: The Tree of Liberty Dies.
- KOLCHIN, Peter Continued work on book manuscript, "American Slavery and Russian Serfdom: A Comparative Study."

- KRAMER, Steven P. Preparation of a T.V. program on "New Mexico and the Multilingual Experience" with NMHC grant on Channel 5. Participation in Carpenters History project funded by NMHC.
- LIEUWEN, Edwin Aug. 1981, Research, Library of Congress, MS Division, Gen. Scott papers. Jan-Dec, 1981 continued research on biography of Alvaro Obregon, 1913-28.
- MACIEL, David R. Chihuahua: textbook for the Mexican Ministry of Education (in press).
- McCLELLAND, Charles E. Completed two articles, (1) "German Higher Education," in D.K. Mueller et al., Structural Change and Social Reproduction in European Education, 1870-1920; (2) "Imperial Universities," in J. Remak et al., Wilhelminian Germany: The Other View, both accepted and forthcoming. Continuing research on the rise of modern learned professions in Germany, 1850-1933.
- NASH, Gerald D. Book on World War II and the American West.
- PORTER, Jonathan Completed article "The Scientific Community in Early Modern China," accepted for publication in ISIS. Preparation of a book on Chinese landscape and civilization.
- PUGACH, Noel H. Article: "Keeping an Idea Alive: The Formation of the Chinese-American Bank of Commerce," completed and submitted to Business History Review. Essay: "Paul S. Reinsch," Biographical Dictionary of Internationalists, to be published in 1982.
- RABINOWITZ, Howard N. Continued the process of editing Southern Black Leaders of the Reconstruction Era, a collection of original essays (including two of my own) to be published by Univ. of Illinois Press in May 1982. Completed

an article on Raleigh's black community to be published in a collection of essays, and a review article for Reviews in American History; continued work on The First New South 1877-1920 to be published by Harlan Davidson Inc. and study of Albuquerque and Sunbelt urbanization 1940-1974; prepared background research paper on Albuquerque from 1940 to the present for the Museum of Albuquerque's permanent exhibit on the city's history; prepared and submitted grant applications to: Ford Foundation; Guggenheim Foundation, American Council of Learned Societies; Rockefeller Foundation (first and second stages).

ROBBINS, Richard Jr.

Continuing research on Russian provincial Governors, 1880-1905.

ROBERTS, William R.

Loyalty and Expertise: The Transformation of the Nineteenth-Century American General Staff and the Creation of the Modern Military Establishment, forthcoming. Over the Ramparts, a forthcoming anthology to be published by Greenwood Press, co-editor and contributor.

SKABELUND, Donald

Summer work on two ongoing MSS., "Structure of Thought" and "Structure of Theory in Historical Perspective," mainly history of logic. Summer preparation in history of computers and history of microelectronics, for revised Hist. 327, History of Technology.

SPIDLE, Jake W.

Completed (first draft) Volume II of "History of United States Air Force High Energy Laser Research Program" for USAF Weapons Laboratory; continued research and writing of a monograph on the German colonial service; continued research into the history and development of the American thoroughbred racing industry; began preparation of a new course tentatively titled "Makers of the Modern World."

STEEN, Charlie R.

Circulating two manuscripts from research into the history of the Netherlands in the sixteenth century. Both have been revised and have been sent to university presses. Attempting to find funding for a proposal originally sent to the NEH for a series of translations of memoirs and supporting documents covering the period 1550-1580 in the Netherlands.

SULLIVAN, Donald D.

Book-length study of the causes and process of decline in late medieval society; article on history and milleniarism in Nicholas of Cusa.

SZASZ, Ferenc M.

In progress: book due out next Spring; several articles, one edited work due in 1983.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

BAKEWELL, Peter J.

(1) 'Antonio Lopez de Quiroga'-- paper presented at 29th annual conference of the Rocky Mountain Council for Latin American Studies, Las Cruces, 12 Feb. 1981 (revised and enlarged version of an earlier article).

(2) 'La periodización de la producción minera en el norte de la Nueva España durante la época colonial' -- paper given at the Primer Coloquio sobre historia del Noroeste de México y Suroeste de los Estados Unidos (UNAM, Mexico City, 3 December 1981).

(3) Commentary on: 'Las libras esterlinas y Bolaños' -- paper by Ldo. Luis Javier Arellano Ramírez at the Ier encuentro de investigación jalisciense: economía y sociedad (Guadalajara, 11 August 1981).

(4) Attendance at annual meeting of American Historical Association (Los Angeles, 27-30 December 1981): -- seeking potential MSS for Hispanic American Historical Review, and attending annual meeting of editorial board of HAHR.

- BOYLAN, Anne M. Presented a paper, "Toward a Typology of Women's Organizations: New York and Boston, 1795-1840" at the Fifth Berkshire Conference on the History of Women, June, 1981.
- CONNIFF, Michael L. Attended American Historical Association meeting, Los Angeles, December 27-30, 1981.
- CUTTER, Donald C. Gave luncheon address at joint Texas-New Mexico Hist. Conference at El Paso. Gave banquet address at 22nd Annual Arizona History Conference at Scottsdale. Attended Pacific Coast Branch of AHA meeting, Eugene. Chaired session at Western History Association Conference, San Antonio. Served as a member of the Leroy Hafen Prize Committee of the Colorado Historical Society. Chaired session of the 7th Annual Labor Studies Conference in Albuquerque,
- ETULAIN, Richard W. Chaired sessions at SW Labor Conference, Pacific Coast Branch of AHA, Western Literature Association, Western History Association. Read paper and panel discussant, NEH Conference on West, Salinas, Calif. Commentator, WHA conference; WHA program committee.
- IKLÉ, Frank W. Invited participant, 43rd Annual Conference, Council on Foreign Relations, New York City, "Western Alliance: Common Concerns, Divergent Views", New York City, June 4-6. State Railroad Planning Conference, Santa Fe, May 19.
- JOHNSON, John J. Member, General Committee, Conference on Latin American History. Attended Annual Meeting of the American Historical Association. Attended Annual Meeting of the Rocky Mountain Conference on Latin American History.

- KERN, Robert Program chairman and ran the seventh annual conference of the Southwest Labor Studies Association, which met in Albuquerque April 30 and May 1, 1981, with approximately 90 participants and 200 in attendance.
- KOLCHIN, Peter Attended annual meeting of Southern Historical Association (Louisville, November).
- KRAMER, Steven P. Paper on "The Belgian Trade Union Movement," Southwest Labor Conference, Albuquerque, April 1981.
- LIEUWEN, Edwin Hoover Institution, Stanford, Symposium, Aug. 25-28, 1981. Presented keynote paper on "The New Militarism in Latin America", in press. American Historical Association, Los Angeles, Dec. 27-30, Presented paper on "The Politics of Energy in Venezuela."
- MACIEL, David R. Paper delivered for the IV congress of Mexican Studies chicano, September 1981. Paper presented at the Symposium of the U.S. today, Mexico City, July, 1981.
- MCCLELLAND, Charles E. Commentator on panel, "Higher Education in Nazi Germany," Western Association for German Studies, Seattle, WA, Oct. 1981.
- NASH, Gerald D. Attended Business and Economic History Society, Portland, Oreg. meeting April 22-24, 1981; Paper at Western History Association, San Antonio, October 12, 1981; Phi Alpha Theta Conference, St. Louis, Dec. 28-30 (Executive Council). Major Address, National Park Service Conference on Government and Economy, Lowell, Mass., May 22, 1981; Paper on "Energy Myths", Conference on Energy, Houghton, Mich., Sept. 25-26, 1981.
- PORTER, Jonathan Member, Association for Asian Studies, Committee on Constitutional Revision.

PUGACH, Noel H.

Chairman and discussant, session on "United States Foreign Policy and Labor," Seventh Annual Southwestern Labor Studies Conference, Albuquerque, NM, May 1-2, 1981; Member, Board of Editors, Pacific Historical Review; Chairman, Bernhart Article Prize Committee, Society of Historians of American Foreign Relations.

RABINOWITZ, Howard N.

"Some Reflections on the Study of Southern Black Political Leaders During Reconstruction," a paper presented (in absentia) at the Third Citadel Conference on the South, Charleston, S.C., April 1981; "Urban Development in the Age of Industrialism," a conference attended as invited discussant, Cologne, West Germany, June 1981; "Metropolitan Growth and Political Change in Albuquerque, N.M. Since World War II," a paper presented at the Western Historical Association Convention, San Antonio, Texas, October 1981. Attended Southern Historical Association convention, Louisville, Kentucky, November 1981. Member, Board of Editors of the Journal of Southern History and SHA Membership Committee.

ROBERTS, William R.

"Historians and the Navy: Toward a New Synthesis," Fifth Naval History Symposium, U.S. Naval Academy, Annapolis, Md., Oct. 1981, discussant.

ROEBUCK, Janet

Papers: (1) "Women, Work & Industrialization" in the Labor History Series of lectures, Albuquerque, March 1981. (2) "Aging Is a Women's Issue: Notes from an Historical Perspective," for the Women Studies/Women's Center lecture series, campus, February. Opening address, "Young & Old in a Changing Society," 5th annual Conference on Aging, San Juan College, Farmington, N.M. October. Guest lecture, "Aging: Everyone's Future," keynote address, Conference of N.M. Dental Hygienists, Santa Fe, December.

- SLAUGHTER, M. Jane Conference, Western Association of Women historians, attended, Monterrey, Calif., May, 1981; keynote speaker, HERS/West Conference, Albuquerque, August 1981; American Historical Association Conference, paper presented, Los Angeles, December 29, 1981.
- SPIDLE, Jake W. Paper read, "History and the Health Professions: A 'Needs Analysis'" at New Mexico State Department of Health and Environment "Health and Human Choices" conference, Bishop's Lodge, N.M., 2 October 1981.
- STEEN, Charlie R. Attended meeting of Western Society for French History and served as the chair of a session.
- SULLIVAN, Donald D. Member, executive committee, Rocky Mountain Medieval & Renaissance Association.
- SZASZ, Ferenc M. Gave paper, "The Eastern vs. the Western Social Gospel," at a session of the Western Historical Association meeting in San Antonio, Texas, October 1981. Gave talk "Pre-Columbian Contact in the American Southwest" to the Albuquerque Chapter of the Westerners.

7. OTHER PROFESSIONAL ACTIVITIES

- BAKEWELL, Peter J. Continued as Associate Editor of Hispanic American Historical Review; also as member of editorial board of New Mexico Historical Review. Talk to Albuquerque Genealogical Society on palaeography (17 March 1981 - with Joseph Sanchez). UNM French Summer School (Taos Ski Valley) - guest lecture 'Histoire de la Guyane Francaise' (1 July 1981).

- CONNIFF, Michael L. Gave luncheon talk to Latin American Institute concilium, on Black Panamanians, 15 Nov. 1981. Continue to serve as editor for Handbook of Latin American Studies, modern Brazilian history consultant, UNM press, for mss.
- CUTTER, Donald C. Gave two lectures in the Pender Distinguished Lecturer Series, Central State U.; Lectured at University of Oklahoma; Lectured at Oklahoma State University; Served as Faculty Member of UNM Elder Hostel program; Interviewed twice by Radio Nacional de Espana; Interviewd by KOB (Ch. 4) News; Interviewed by KOB Radio.
- DABNEY, William M. Delivered a lecture in the "Last Lecture" series.
- ETULAIN, Richard W. Attended professional meetings in El Paso; Eugene, Oregon; Boise, Idaho; San Antonio; Salinas, California. Served on editorial boards of Western Historical Quarterly, Great Plains Quarterly, Journal of Regional Cultures, Idaho Yesterdays; read manuscripts of UNM Press, University of Oklahoma Press, and several journals.
- IKLÉ, Frank W. Talk: Albuquerque Lion's Club, "The United States and China," 26 February. Chairman, Albuquerque Committee on Foreign Relations. Member, Board of Directors, Association of Southwestern Humanities Councils. Lecturer in History Department course on "World War II."
- KERN, Robert Gave one of the three talks in the "Women in the Labor Movement" series in Albuquerque in March 1981. Refereed ms. of Stanley Payne, The Modern Catholic Church in Spain, 1815 to the Present, for the University of Wisconsin Press. Refereed ms. of James Cortada, A City in War: American Diplomatic Records on Barcelona and the Spanish Civil War for the American Philosophical Society. Refereed Tom G. Powell, Mexico and the Spanish Civil War, for University of New Mexico Press. Board of Readers, Southwest Economy and Society. Board of Directors, Southwest Labor Studies Conference, ex officio.

KOLCHIN, Peter

(1) consultant to National Endowment for the Humanities. (2) reader for Louisiana State University Press. (3) talk to Northwest Optimists' Club (Jan. 29), on "New Views of American Slavery".

MACIEL, David R.

Book Review Editor for the journal Aztlan.

McCLELLAND, Charles E.

Editorial consultant to German Studies Review, Wayne State University Press, Princeton University Press; faculty evaluator of History program, University of California, Riverside; lectured to West Side Exchange Club, Albuquerque, on current conditions in Poland; chairman, UNM Fulbright Selection Committee; Chairman, European Studies Program.

NASH, Gerald D.

Member, editorial board, Energy and Society, Agricultural History, Journal of the West; consultant, Ohio State University Press, Texas Western University Press, Editor, The Historian, Carstensen Prize Committee of Agricultural History Society.

PUGACH, Noel H.

Consultancies: History of the New Mexico Carpenters Union. Off-campus talks, etc.: "American Jewish Immigration: Was There a Melting Pot?" Young Jewish Leadership, Jan. 11, 1981; Interview KRKE, on Iran, Jan. 25, 1981; "The Jewish American Immigration Experience," Los Alamos Jewish Community Center Conference (Ghost Ranch), May 9, 1981; Interview, "The Mideast After Sadat," KGGM, Oct. 1981; "Post-mortem on the AWACS Sale and U.S. Mid-east Policy," Philosophers Anonymous, Nov. 5, 1981; Talk on Judaism, 6th grade, Cleveland Mid-School, December 16, 1981.

RABINOWITZ, Howard N.

Lectures: on race, ethnicity and cultural pluralism for an Association for State and Local History workshop, Pensacola, Florida, January 1981; on the New Orleans black community, Tulane University, New Orleans, La., February 1981; on the Raleigh black community, North Carolina Department of Archives and History, February 1981; on the Atlanta black community and the Southern urban experience, University of Georgia, Athens, Georgia, April 1981; evaluated manuscripts for LSU Press, University of Tennessee Press, Journal of Southern History, University of Pennsylvania Press and University of Illinois Circle Campus (in tenure decision). Evaluator for several divisions of the National Endowment for the Humanities.. Consultant for Educational Testing Service (reader American History Advanced Placement Examination, Trenton State University, Trenton, N.J., June 1981).

ROBERTS, William R.

Panelist for a discussion of veterans' problems on "The Illustrated Daily," KNME, Channel 5, June 8, 1981. Spoke to three local civic organizations on "The Battle of Yorktown" in Oct. and Nov.

ROEBUCK, Janet

Guest lectures: (1) 2 lectures for World War II course, Spring; (2) "Sexuality & Aging" for Health Education 212; Fundamentals of Human Sexuality, March.

SKABELUND, Donald

Three lectures in history of relativity and quantum mechanics to General Honors Program.

SLAUGHTER, M. Jane

Coordinated and lectured in series on Labor History, sponsored by CLUW-NEH, March 1981, Albuquerque; University of Arizona, public lecture "Women and the Italian Communist Party," December 2, 1981; Interview KUAT Radio, Tucson, Arizona, December, 1981.

STEEN, Charlie R.

New Cultural History course offered Summer 1981. Presented a series of lectures in collaboration with a local theologian. The lectures dealt with the relationship between church and political institutions in the period after the Reformation.

SZASZ, Ferenc M.

Gave talk on A. Lincoln for N. Valley Optimists, Dec. 1981. Gave talk: "Knowledge vs. Wisdom: the Perennial Paradox" for UNM's Last Lecture series and repeated it for the First Congregational Church Seminar (Spring/Fall, 1981). Member of film team to write script for video tape, "The Learning Circle," Fall 1981.

8. NON-TEACHING UNIVERSITY SERVICE

BAKEWELL, Peter J.

Faculty advisor, Student Organization for Latin American Studies. Faculty Senate. Operations Committee of Faculty Senate (May 1981--). Interdisciplinary Committee on Latin American Studies. Latin American Institute Library subcommittee (chair - September 1981--). Latin American Institute Policy Committee (all year). History Department Curriculum Committee (chair). History Department ad hoc Sabbatical Leave Committee (chair). History Department Tenure Committee.

CONNIFF, Michael L.

Appointed director of the Ibero-American Ph.D. program, effective Aug. 1982. Graduate Affairs committee and unit review committee, history department; chair of Latin American Institute subcommittee for exchanges with Brazil and So. South America; Faculty senate library committee member; sponsored Fulbright Exchange scholar, Patrick Bryan for Spring semester; Department Newsletter editor; Portuguese language examiner. Ambassador trip to Espanola, contacted three high school seniors, and worked in parents' day for school relations office.

- 1012
- CUTTER, Donald C. Chairman, Board of Editors, New Mexico Historical Review; Chief Judge of Calvin Horn High School Historical Essay Contest; gave informal seminars for History Day program. Faculty member of Hispanic Humanities Curriculum Institute and reviewed submitted plans. Spoke at Parents' Day for History Department presentation.
- DABNEY, William M. Member: Student Standards Committee; Faculty Ethics and Advisory Committee; A&S Tenure Advisory Committee; A&S Promotion Advisory Committee (chair).
- ETULAIN, Richard W. Editor, New Mexico Historical Review; graduate committees of 10 students; Chair, Graduate Advisory Committee, History Department; UNM Press Committee; National committee on future of historical editing in U.S.
- IKLÉ, Frank W. Secretary-Treasurer, "21" Club; Chairman, Provost's Committee on Educational Exchanges with the P.R.C.; Chairman, Committee on copyrights and patents; Member, Research Policy Committee; Member, Interdisciplinary Research Committee; Member, Asian Studies Committee; Member, History Department Sabbatical Committee.
- KERN, Robert Elected member of the Faculty Senate. Member of the Undergraduate Academic Affairs Committee and Faculty Benefits Committee. President of the UNM chapter of AAUP and vice president of Faculty Representation Association.
- KOLCHIN, Peter Member, History Department Graduate Advisory Committee; editor, History Department Newsletter (spring 1981); member, Afro-American Studies Program Advisory Committee.
- KRAMER, Steven P. Director, French Summer School; Director, program of Quebec UNM relations; European Studies Committee; Undergraduate Affairs Committee; Faculty Association, etc.

- LIEUWEN, Edwin Book Review Editor, Hispanic American Historical Review; President, Latin American Faculty Concilium (132 members); Chairperson, Latin American Policy Committee (All colleges of UNM).
- MACIEL, David R. Have seven graduate students working on M.A. thesis or Ph.D. Dissertations. Member of two subcommittees for LAI. Acting Director of Southwest Hispanic Institute.
- McCLELLAND, Charles E. See 7. UNM Outreach Program.
- NASH, Gerald D. Chairman, Graduate Entrance Committee; Telecourse Evaluation Committee, Head, American History section; University Committee on Honorary Degrees.
- PORTER, Jonathan Member, Faculty Senate; History Department Graduate Entrance Committee; History Day judge.
- PUGACH, Noel Department of History Library Liaison, Fall 1981; History Department special committees on U.S. History Telecourse and Branch Campuses.
- RABINOWITZ, Howard N. Member of: Department of History Graduate Advisory Committee (Spring 1981); Department of History Graduate Entrance Committee (Spring and part of Fall 1981); American Studies Advisory Committee (1981); Afro-American Studies Advisory Committee (Fall 1981); Provost's Special Committee on the Humanities (Fall 1981).
- ROBBINS, Richard Jr. History Department Graduate Entrance Committee.
- ROBERTS, William R. Member, Faculty Club Board; member, departmental curriculum committee; departmental coordinator, Honors Program; departmental coordinator, History Day, 1981; Pres. Recognition Award for recruitment calling campaign.

- ROEBUCK, Janet Provost's Task Force on the Humanities; University Committee of Five; Admissions & Registration Committee; Provost's Task Force on Gerontology; College of Nursing Graduate Committee; Women Studies Advisory Board; UNM Ambassador Program, Legislator's Day.
- SKABELUND, Donald Judge for History Day, April. Departmental Undergraduate Unit Review Committee.
- SLAUGHTER, M. Jane Athletic Council, Chair, member, Spring 1981; Women Studies Committee and Advisory Committee; American Studies Committee; Faculty Club board, member, treasurer; Exec. Committee UNM Faculty Association.
- SPIDLE, Jake W. Graduate Advisor, History Department, (Fall & Spring, 1981).
- STEEN, Charlie R. Member of the Honor's Council, Undergraduate Advisor for History. Represented the Department in Parents' Day and Senior Day activities. Active in preparing the report for the Unit Review, U.C.F. Chair for History.
- SULLIVAN, Donald D. Assistant Chair, History Department; Member, University Curricula Committee.
- SZASZ, Ferenc M. Member, Department Undergraduate Review Committee; Member, Scholarships Prizes and Loans Committee; Member, Academic Policy and Curriculum Committee; Participant in Senior Day, UNM Recruiting for 1981.

9. PUBLIC SERVICE

- BOYLAN, Anne M. Did work for a political candidate running for state office (telephoning, etc.)
- CONNIFF, Michael L. Elected democratic party precinct chairman.

CUTTER, Donald C.	Consultant in History for the U.S. 16th Air Force; Spoke to Immanuel Presbyterian Mariners group; outside evaluator for NEH Division of Public Programs (Museums and Historical Organizations and Media Programs) on several occasions. MS evaluation for University of Oklahoma Press. MS evaluation for U.S. Air Force. Served on advisory editorial boards of the following professional journals: <u>The Journal of the West</u> , <u>The Americas</u> , <u>The Journal of Arizona History</u> , <u>New Mexico Historical Review</u> . Headed the <u>Historical Reprint Series of the New Mexico Historical Review</u> .
DABNEY, William M.	Various sorts of activity in the Episcopal Church; member Resolutions Committee for the Bernalillo County Democratic Party.
ETULAIN, Richard W.	Church of the Nazarene: teach Sunday School class, serve on church board, and chair steering committee for general church policy.
KRAMER, Steven P.	Editor, <u>Bernalillo County Democrat</u> ; Vice-President, <u>Democratic Council</u> .
NASH, Gerald D.	Sandia School Fund Raising Committee.
PUGACH, Noel H.	President, Experiment in Jewish Learning.
RABINOWITZ, Howard N.	Vice Chairman, Albuquerque Landmarks and Urban Conservation Commission; consultant, Albuquerque Museum.
SKABELUND, Donald	Sunday School Class in Old Testament.
SPIDLE, Jake W.	Ruling elder and Clerk of Session, First United Presbyterian Church.
SZASZ, Ferenc M.	Associate Member, Religious Studies Committee.

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THE UNIVERSITY OF NEW MEXICO

DATE July 15, 1982


TO History Faculty

FROM Arla

SUBJECT Errata, Annual Report of History Department, July 1, 1981-June 30, 1982

Pg. 3, para. e. delete "and David Maciel" from line 1.

1016

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Report of the NEW MEXICO HISTORICAL REVIEW

July 1, 1981 - June 30, 1982

Richard W. Etulain, Editor

STAFF APPOINTMENTS

The office staff remained intact during this past year; and it is this carryover that aided the REVIEW to improve in several areas. The editor completed his third year with the journal, Cheryl Foote finished her second year as assistant editor, Nancy Brown continues as secretary and office manager, and Annabelle Ocson completes her third year as our work-study student and editorial assistant.

Changes have occurred, however, on the editorial boards assisting the editorial staff of the REVIEW. Donald C. Cutter has resigned from the university and from his position as chairman of the Board of Editors (though he will continue to serve on this Board). Richard N. Ellis becomes chairman of the Board of Editors and retains his position as book review editor.

New members of the Editorial Board include John L. Kessell and Marc Simmons, who replaced departing members Paige W. Christiansen, Dale F. Giese, and William E. Davis. Replacing Gilberto Espinosa and Y.A. Paloheimo on the Editorial Consultants are Janet Lecompte and Ralph H. Vigil.

OTHER DEVELOPMENTS in 1981-82

We have met the three goals the editor set at the beginning of the year. First, the journal has been on time with all four of its issues; second, I think we have put together stronger issues; third, we have increased our circulation.

Being on time with each issue is important in establishing and maintaining a journal's good reputation. We have now been on time with every issue for two-and-a-half years. While we need more good essays from which to select the sixteen or so we publish each year, I do not think we have been forced to print second-rate articles. Finally, we have raised our circulation to 1319 (July), its highest mark in the history of the journal, and up from 1118 in January 1982. Last year at this time circulation figures were 1179 (July).

During most of the year, we have been able to plan one or two issues ahead of time. The number of submissions for 1981-82 was 39, compared to 26 for 1980-81. We would like more submissions than this, but larger numbers are not necessarily a sign of strength. As long as we receive enough good submissions to publish four good issues per year we are gratified--without being, however, completely satisfied.

PROMOTIONAL EFFORTS

During 1981-82, all the professional staff have been involved in promoting the REVIEW. We have attended several historical meetings--sometimes at our own expense--to display the journal and its back issues and to speak to prospective contributors. In addition, we have attended regional and local

meetings of other disciplines and organizations to promote the REVIEW. Nancy Brown has done the bulk of this time-consuming but helpful work. The list that follows indicates the extent and variety of our promotional efforts.

Historical Society of New Mexico Conference, Santa Fe, Etulain, Foote, Brown, Oczon, Schwegmann*
 Archaeological Society of New Mexico Conference, Albuquerque, Brown
 New Mexico Library Association Conference, Las Cruces, display
 New Mexico History Day-Calvin Horn Contest, UNM, Brown, Schwegmann, Cutter
 Rancho de Las Golondrinas, Santa Fe, Schwegmann
 Lincoln Billy The Kid Pageant, Lincoln, Brown
 Pecos Archaeology Conference, Taos, Brown, Schwegmann
 Western Historical Association, San Antonio, Etulain, display
 New Mexico State Fair, Albuquerque, Brown, Schwegmann
 Museum of New Mexico Palace Lectures, Etulain, Cutter
 New Mexico Council of the Social Studies Conference, Albuquerque, Brown
 Archaeology workshop, UNM, display
 Museum workshop, UNM, display
 Speakers' Bureau, UNM, community talks, Etulain, Cutter
 Conference on Historical Archaeology and Underwater Archaeology, Philadelphia, display
 Mogollon Archaeology Conference, Las Cruces, Schwegmann

*Schwegmann, though not currently employed at the NMHR, continued to aid the promotion program in his capacity as Reprint Coordinator.

NMHR in Regional Book Shops

Galeria de los Artesanos, Las Vegas
 Singing Wind Book Store, Tucson
 Tienda del Museum-Albuquerque Museum
 De la Pena Books, Santa Fe
 Kit Carson Museum, Taos
 Bent Museum and Gallery, Taos
 Millicent Rogers Museum, Taos
 Double K Books, El Paso
 Banta Books, Crawfordsville, IN
 El Paisano Books, Albuquerque
 Quivira Book Shop, Albuquerque
 UNM Book Store
 Scallawagiana Books, Salt Lake City
 El Torreon Bookshop, Lincoln

OTHER ACTIVITIES

Traditionally the NEW MEXICO HISTORICAL REVIEW has also helped to promote history in the state and region. This work continues in 1981-82.

History Day and Calvin Horn Contest

Reading of term paper entries, Etulain, Cutter
 Judging Coordinator, Brown
 Judges, Bakewell, Schwegmann
 Promotion, awards, correspondence, publicity, from NMHR

Other Activities

Committee for the Promotion of History in New Mexico, Etulain, Brown.
 History News Notes and promotion of local events, NMHR
 Reference and inquiries on history of state, NMHR
 Promotion of Historical Society of New Mexico, NMHR

The NMHR has also been featured widely in public notices and in special mailings in the region.

Notice in NEW MEXICO GENEALOGIST magazine
 Notices in CAMPUS NEWS, ALUMNI, UNM LOBO each issue
 Notices in most state and city newspapers each issue
 Notices in most state and local historical groups' bulletins
 Notice in EL PALACIO
 Notice in SOUTHWEST MISSION RESEARCH newsletter, Tucson
 Notices in NEW AMERICA
 Notices in COMMUNIQUE
 Notice in BOOKTALK
 Notice in RIO GRANDE HISTORY
 Letters from Mrs. Alice King to state schools and libraries
 Mailings to state doctors, historical groups' memberships, overseas and Southwest libraries, neighboring state libraries, etc.
 Free sets of reprints to state schools upon request
 Free sample of reprint to most state history groups and libraries

Journal Exchange Program

Zimmerman Library Serial Department issued 126 copies of NMHR each quarter, plus sample copies for recruiting new partners

ACTIVITIES OF THE ACADEMIC STAFF

Professional activities of the editor and the UNM members of the REVIEW's Editorial Board are listed in the annual report of the UNM History Department. These listings indicate that these

persons have published a good deal and taken part in several professional meetings during the past year.

FUTURE PLANS

During the past year we published two special-topic issues: land grants (January) and women (October). We think these special issues add to the reputation of the of the REVIEW by concentrating on subjects of particular interest to our readers. If we can gather sufficiently strong essays, I would hope to devote special issues to Hispanos and Indians in the near future.

The two special-topic issues published in 1981-82 carry selected bibliographies of useful secondary sources. We hope to publish additional such listings in the future, and the editor and assistant editor are beginning the collecting of materials for a bibliography of New Mexico history to be published by the University of New Mexico Press. Such a volume should be useful to scholars and nonprofessionals interested in the history of the state.

Finally, let me say a few words about the major problem that faces the REVIEW: increased costs for printing and for office costs. During the three years I have served as editor, the costs for printing the REVIEW have risen from less than \$10,000 to about \$16-17,000 for 1982-83. Although I have noted these rising costs and called them to the attention of my superiors, the REVIEW has been limited to 5% budget raises in this area when costs have risen approximately 25% or more each year. We are

now budgeted for \$5,000 less than we know it will cost to print the REVIEW next year. I hope something will be done about this matter.

The same problem bothers us in office supplies. To raise circulation we send out a large number of notices, a procedure that boosts our office printing and mailing expenses. I hope that budget-makers will take this into consideration, especially since they ask us to raise 10% or more from previous years' revenues and yet limit us to 5% raises.

Finally, this last year I signed what I thought was to be the REVIEW's final budget for 1982-83, and after I signed that budget, changes were made, including the addition of \$1,500 for us to raise in general revenue. That is not fair, and certainly budget-makers would not allow me to do something like this after they had signed the budget.

Other than these problems with budget, this has been a good year for the REVIEW. We have attained our goals and plan to do even better next year.

I. General Departmental Information

A. The department began adding broadcast courses aimed at accreditation by the Accrediting Council for Education in Journalism (ACEJ), and the new broadcast sequence will be fully established by Spring, 1983. At that time we will offer seven broadcast courses compared with the three that comprised the sequence until August, 1981. Equipment shortages are the only drawback confronting us.

With the New Mexico Press Assn., the department sponsored a one-week workshop for high school students who will be running their newspapers this year. Newspaper Awareness Week, June 20-26, attracted 33 students from high schools all around the state and the reaction among these potential college students was most favorable. Professors Lawrence, Edwards and Wittrup participated in photojournalism, writing and editing "crash courses" that were designed for practical application.

An advanced photojournalism course, 361, was offered in the Spring semester by Lawrence.

B. We renew our plea for a shared telecommunications center to offer journalism, speech communications and theatre arts students proper broadcast facilities.

C. New staff appointments were Assistant Professors Donald C. Edwards and Burt Wittrup, August, 1981. Both have strong professional backgrounds traditionally associated with the department and both have introduced innovative teaching methods.

D. No separations.

E. Edwards and Wittrup jointly are conducting research into how students of reporting think. The research is in the area of hemisphericity (left side vs. right side of brain). Edwards obtained funds for a microcomputer to launch phase one of the "CLAS" project (Computer Learning Assistance System). This would enable students to learn much of the rote material in the discipline (style, usage, punctuation) at their own pace and allow faculty to concentrate more intensely on the skilled, creative aspects of news reporting and writing.

Eleven grant applications for CLAS were made; seven responded negatively. One, from Digital, noted that

"...we direct such (requested grant) support to institutions with which we currently have an on-going recruiting relationship. A primary objective of our program is to increase the available pool of trained and educated men and women from which to draw our employees."

This suggests, to me, that if UNM does in fact not have a recruiting relationship with Digital, we might want to get one established.

As a result of meetings with Associate Vice President Bill Walden, and Dan Harris of the Computer Center, there is a possibility that some terminal time and access will be available for advanced journalism students to become acquainted with newspaper text processing.

II. Composite of information requested on individual biographical supplements.

1. Edwards is pursuing a Ph.D. in political science.

4. Lawrence continued work assisting the Associated Press in news and sports photography, translating that experience into the classroom to keep professional methods up to date.

Professor Hillerman's latest novel, The Dark Wind, was published by Harper & Row. His short story, "The Witch, Yazzie and the Nine of Clubs," won a 10,000 kroner award and is included in a British anthology. A previous novel, People of Darkness, was translated into French and German.

6. Professor Fred Bales served as state chairman of the Society of Professional Journalists/Sigma Delta Chi. Lawrence presented a photojournalism workshop for the 1982 CASE District 4 Conference and attended a National Press Foundation four-day workshop at Princeton and New York City.

7. Lawrence addressed the Hugh O'Brian Youth Foundation New Mexico leadership seminar held on campus for about 50 high school students from around New Mexico.

8. The department was one of only four selected nationally to participate in the Hospitalized Veterans Writing Project for Veterans Administration Hospital patients. Professor Hillerman, Ivan Innerst and Wittrup are monitoring two undergraduates chosen by us as instructor/assistants for the project in Albuquerque. Missouri, U. of Texas-Austin and Columbia were the other institutions selected.

THE ANNUAL REPORT OF THE DEPARTMENT OF LINGUISTICS

July 1, 1981 - June 30, 1982

Garland D. Bills, Chair

I. GENERAL INFORMATION

A. Highlights of the 1981-82 Academic Year

1. Faculty and Administration

In its ninth year the Department had a budgeted faculty of 3.50 FTE: Professor John W. Oller, Jr. (1.0), Associate Professor Garland D. Bills (.50 Linguistics, .50 Modern and Classical Languages), Assistant Professor Alan Hudson-Edwards (1.0), and Assistant Professor Steven L. Strauss (1.0).

In addition, Rodney W. Young (Testing Division) held a nonprobationary nonbudgeted appointment as Assistant Professor of Linguistics; Professor Vera F. John-Steiner (Educational Foundations) and Associate Professor Larry P. Gerbet (Anthropology) held nonbudgeted joint appointments in the Department; Dennis M. Muchisky continued his nonprobationary appointment as Lecturer II for instruction in the Intensive English Institute; Bernard Spolsky held an appointment as Research Professor; and Emeritus Professor Robert W. Young continued his appointment as Adjunct Professor of Navajo Linguistics.

The Department was governed by a Voting Faculty of fifteen: the preceding (except Muchisky, Spolsky, and Robert Young) plus Professor Robert H. White (Secondary and Adult Teacher Education), Associate Professors Dean G. Brodkey (Elementary Education), Dolores S. Butt (Communicative Disorders), Jean M. Civikly (Speech Communication),

Guillermina Engelbrecht (Elementary Education), Leroy I. Ortiz (Elementary Education), and Roy G. Pickett (English), and Assistant Professor Jean E. Newman-Charlton (Psychology). Jack Damico, doctoral candidate in Educational Linguistics, served as the student representative on the Voting Faculty.

Departmental assignments for Voting Faculty during 1981-82 were as follows:

Policy Committee: Civikly, Engelbrecht, Gorbet, Oller, Bills.

Graduate Committee: Brodkey, White, Young, Bills.

M.A. Examination Committee: Bills, Butt, Strauss.

Library Representative: Bills.

DGLC Faculty Advisor: Strauss.

Undergraduate and Graduate Advisor: Bills.

A&S Graduate Committee Representative: Oller.

The interdisciplinary mission of the Department was further enhanced by the support of thirteen Associated Faculty: Bess Altwerger (Elementary Education), Lynn D. Beene (English), John J. Bergen (Modern and Classical Languages), Phillip K. Bock (Anthropology), Michael J. Hogan (English), Marlis E. Mann (Elementary Education), A. Charlena McDermott (Philosophy), Peter C. Page (English), Bruce E. Porch (Neurology), Linda L. Riensche (Communicative Disorders), E. Scott Rusforth (Anthropology), Richard D. Van Dongen (Elementary Education), and Mary Marta Weigle (Anthropology). Beene was added to the Associated Faculty in Fall 1981.

2. Faculty Research, Service, and Honors

Professors Engelbrecht, Ortiz, and Spolsky entered the third and final year of their \$140,000 grant from the National Institute of Education. This project, titled "Sociolinguistics of Literacy: An

Historical and Comparative Study", examines the development of literacy in a number of parts of the world, including northern New Mexico and the Navajo reservation.

Among the faculty's honors received and services performed the following merit special mention. Professor Hudson-Edwards was honored with an appointment as Visiting Expert by the National Science Council of the Republic of China for his sabbatical stay at the National Sun Yat-sen University last fall. Professor Brodsky was elected president of the New Mexico TESOL Association for 1982-83.

3. Students

The Department does not have access to a reliable accounting of declared majors and minors in Linguistics at the undergraduate level. During 1981-82 there were apparently two B.A. majors in Linguistics (Leonard M. Blumberg and Karen D. Jackson) and two B.A. minors (Willow Roberts and Gail H. E. Smith).

There were eight students officially enrolled in the M.A. program. The single graduate of the M.A. in Language Sciences this year was Martha Furch (in December, 1981), who has continued to take courses while working on a research project with Professor Strauss; she began work this summer as an ESL instructor in the Division of Continuing Education.

The doctoral concentration in Educational Linguistics, an interdisciplinary option in the COE doctoral program administered by 14 members of the linguistics faculty, admitted five new candidates for its third year, bringing the total number of students in the program to thirteen, with one not in residence.

Several students in other departments received doctoral degrees with an emphasis in linguistics during 1981-82: Dale A. Koike (Romance Languages) with a dissertation on "A Sociolinguistic Analysis of the Infinitive in Colloquial Brazilian Portuguese" under the direction of Professor Bergen; Dennis M. Muchisky (Secondary and Adult Teacher Education), whose dissertation titled "Relationships Between Speech and Reading Among Second Language Learners" was directed by Professor White; and Kanchana Prapphal (Secondary and Adult Teacher Education) with a dissertation on "Learning English in Thailand: Affective, Cognitive, and Demographic Factors", chaired by Professors Oller and White. Koike has resigned her assistant professor of Spanish and Portuguese position at the University of California-Santa Barbara to accept a similar position at North Carolina State University effective Fall 1982. Muchisky continues as Lecturer II in the Intensive English Institute here. Prapphal returned to her teaching position in the English Department of Chulalongkorn University in Thailand.

4. Lectures and Visitors

The Duke City Linguistics Circle (DCLC), under the leadership of Sherman Wilcox as student president and Professor Strauss as faculty advisor, sponsored five lectures during the 1981-82 year:

David Ingram (Mount Gravatt College of Advanced Education, Queensland, Australia), "Multiculturalism and Language Policy Planning in Australia" (October 5).

Alice Davison (University of Illinois, Champaign-Urbana), "Measuring Syntactic Complexity Relative to Context" (October 8).

Milaira Valiquette (San Diego Church, Jemez Pueblo), "Tones In Laguns" (December 3).

Robert D. Van Valin, Jr. (Australian National University),
 "Case Marking and Clause Linkage In Mayan Languages"
 (February 2).

Bruce Rigby (University of Queensland, Australia), "Speech
 Communities and Social Networks on Cape York Peninsula"
 (March 29).

Four other major linguistics lectures sponsored by other units
 were promoted by the DCLC and of great interest to linguistics
 faculty and students:

Mary Louise Pratt (Stanford University), "The Short Story:
 Towards a Sociolinguistic Analysis of Genre" (September 1);
 sponsored by Modern and Classical Languages and the Latin
 American Institute.

Herbert S. Terrace (Columbia University), "Animal Minds?" and
 "On the Ability of Apes to Use Language" (November 2);
 sponsored by Psychology.

Daniel C. O'Connell, S.J. (Loyola University of Chicago),
 "Tango: From Poems To Pathology" (January 29); sponsored
 by Communicative Disorders.

Miguel Carranza (University of Nebraska-Lincoln), "Language
 Issues In The Chicano Community" (March 23); sponsored
 by Sociology.

Linguistics faculty and students also played an active role in
 the NMM Reading Circle and the New Mexico TESOL Association.
 Presentations at the Reading Circle included Jean Newman-Charlton
 and Samuel Charlton (Psychology), "Oral vs. Written Discourse:
 Effects of Word Order" (January 26) and Joseph Suina (Elementary
 Education), "The Effects of Using the Pueblo Indian Child's Language
 in the Classroom" (November 25).

In the fall, NMM TESOL sponsored a lecture by Frank Fialora
 (University of Arizona) on "Bilingual Education and TESOL" (October 9).
 The 4th annual Spring Conference was held on April 3 under the direction
 of Linguistics student, Martha Furch, 1981-82 NMM TESOL president.

Among those presenting papers were Professor Brodkey and two Educational Linguistics doctoral candidates, Jack Damico and Patricia Richard.

The department hosted several visiting scholars during 1981-82. Dr. Ronald Shumaker, professor of English at Clarion State College (Pennsylvania) spent his sabbatical leave here last fall, and Mr. Kjell Hirheim, professor of English at the University of Trondheim, Norway, is spending a 1982 calendar year sabbatical here. Both visitors have contributed to the interchange of ideas by visiting classes, participating at meetings, and talking individually with faculty and students. Dr. Evelyn Ransoa of Eastern Illinois University spent a week in the department in June, 1982 for research on language universals.

B. Future Plans and Recommendations

The department's plan for the future and the problems to confront and resolve remain the same as in preceding years and need not be repeated here. Any new directions for the future will no doubt be charted by the new chair.

C. Staff Changes

Professor Hills completed his six-year term as department chair with the 1981-82 year. Professor Hudson-Edwards has been appointed acting chair for 1982-83.

After five years as department secretary, Barbara Gates Biddle took an extended leave of absence in May 1982 and was replaced by Coria A. Hanson.

II. FACULTY INFORMATION

The following information is limited to those faculty members who hold joint or full appointments in the Department. Only activities of calendar year 1981 are included.

1. Advanced Study

Dennis Muchisky Ph.D., Department of Secondary and Adult Teacher Education, UNM, December 1981.

2. Sabbaticals, Leaves of Absence, Etc.

Alan Hudson-Edwards Sabbatical leave for 1981-82 academic year: August-December 1981 in Taiwan, January-August 1982 in Ireland.

3. New Scholastic Honors, Fellowships, Etc.

Alan Hudson-Edwards Named Visiting Expert by the National Science Council of the Republic of China, with an appointment as visiting associate professor in the Department of Foreign Languages and Literature, National Sun Yat-sen University, Kaohsiung, Taiwan.

Steven L. Strauss Grant to study Acoma phonology and morphology awarded by the Faculty Research Allocations Committee, beginning February 1982.

4. Publications

Alan Hudson-Edwards "Knowledge, Use, and Evaluation of Yiddish and Hebrew Among American Jewish College Students", in J.I. Fishman (ed.), Never Say Die! A Thousand Years of Yiddish in Jewish Life and Letters (The Hague: Mouton, 1981), pp. 635-652.

Vera John-Steiner

- "An Interactionist Model of Language Development", in R. Bain, Sociogenesis of Language and Human Conduct (Pergamon Press, 1981). Co-author: Paul Tatter.
- "The Road to Competence in an Alien Land", in J. Wertsch, Culture, Communication, and Cognition: A Vygotskian Perspective (Cambridge University Press, 1981).
- "Review of Portraits of 'The Whiteman': Linguistic Play and Cultural Symbols Among the Western Apache by Keith H. Basso", Contemporary Psychology, Vol. 26, No. 8, August 1981. Co-author: S. Steiner.

John W. Oller, Jr.

- "Southwestern Applied Linguistics", SLANT 10, 1980, pp. 12-65. Co-authors: J. Brown, N. Morales and S. Rose.
- "Is There a Global Factor of Language Proficiency?", in John A. S. Read (ed.), Directions in Language Testing (Singapore: Singapore University Press, 1981), pp. 1-25. Co-author: F. Khan.
- "Evaluation and Testing in Vernacular Languages", in A. Valdman and B. Hartford (eds.), Issues in International Bilingual Education: The Role of The Vernacular (New York: Plenum, 1981), pp. 47-58.
- "A Study of The Reliability And Validity of The Elyin Oral Interview", in Adrian S. Palmer, P. J. M. Groot, and G. A. Tropper (eds.), The Construct Validation of Tests of Communicative Competence (Washington, DC: TESOL, 1981), pp. 14-28. Co-authors: E. Cottrell and A. Engelskirchen.
- "Research on The Measurement of Affective Variables: Some Remaining Questions", in E. Andersen (ed.), New Dimensions in Second Language Acquisition Research (Rowley, MA: Newbury House, 1981), pp. 14-28.
- "Language Testing Research, 1979-1980", in R. Kaplan, R. Jones, and G. R. Tucker (eds.), Annual Review of Applied Linguistics 1, 1980, pp. 124-150.
- "Can Affect Be Measured?", International Review of Applied Linguistics, Vol. 19, 1981, pp. 95-104.
- "Gardner on Affect", Language Learning, Vol. 32, 1982, June issue.

Rodney W. Young

"Composition Correctness Scores", TESOL Quarterly, Vol. 15, No. 2, 1981.
Co-author: D. Brodkey.

5. Other Research Projects or Creative Work

Rodney W. Young

"1980-81 Edition of UHM and ACT: A Year by Year Profile"
"1981-82 Edition of UHM and ACT: A Year by Year Profile"
"Second Evaluation of The University Skills Program"
"Sixth and Final Report on The University of New Mexico's Exit Test Requirement: The Undergraduate Assessment Program 1980-1981."
"Validity of Screening Criteria for Dental Hygiene Program"

6. Activities in Learned And Professional Societies

Garland D. Bills

"The Delimitation of Andean Linguistics", paper presented at 5th International Andean Linguistics Workshop, Ithaca, NY, July 1981.
"Realistic and Urgent Targets in New Research for the 1980's", invited paper presented at the Conference on the Investigation of Form and Function in Mexican-American (Chicano) English, El Paso, September 1981. (Also served as session chair at this conference.)
Attended 10th Symposium of Programa Interamericano de Lingüística y Enseñanza de Idiomas, Ithaca, NY, July-August 1981.
Attended Linguistic Society of America annual meeting, New York, December 1981. Served as chair of meeting of Department and Program Chairs and as invited participant at meeting of Committee of Presidents concerning a fund raising effort; nominated by Executive Committee to stand for election to the Nominating Committee (not elected in mail balloting).

Alan Hudson-Edwards

"Sociolinguistics and The Study of American Indian Bilingual Education", address delivered to the Dine Bi'Olta Association (Navajo Education Association), Albuquerque, June, 1981.

Vera John-Steiner

University of California at Berkeley,
Psychology Colloquium.
City College of New York, Psychology
Colloquium.

"Interactionist Approach to Compositions",
paper presented to New Mexico Council
of Teachers of English, September 1981.
Northwestern University, Psycholinguistic
Colloquium.

Rutgers University, Psychology Department.
Conference on College Composition and
Communications, Dallas, Texas.

Arizona Center for Educational Research
and Development.

Bank Street College of Education, New
York.

"The Holocaust: Learnings for a
Pluralistic Society", last lecture
series, UNM, September 1981.

Dennis Muchisky

Attended annual conference of National
Association for Foreign Student Affairs,
Nashville, TN, May 1981.

Member, National TESOL Standing
Committee on Schools and University
Coordination.

John W. Oller, Jr.

"Language As Intelligence?", invited
lecture presented at the American
University as part of the Hugo J.
Mueller Lecture Series, Washington,
DC, April 1981.

"The Roots of Intelligence?", invited
paper presented at New Mexico State
University, Las Cruces, April 1981.

"Genetics, Brain, and Language?", invited
lecture presented at the Ontario
Institute for Studies in Education,
Toronto, February 1981.

Steven L. Strauss

"International Developments in Literacy",
paper presented at annual meeting of
International Reading Association,
New Orleans, April 1981.

"Principles of Orthographic Structure",
paper presented at annual meeting of
International Reading Association
(Southwest), Tucson, October 1981.

"The Underlying Distribution of [æ] and
[E] in a New York City Dialect of
English", paper presented at annual
meeting of Linguistic Society of
America, New York, December 1981.

Member, New Approaches to Comprehension
and Text Comprehensibility committee,
International Reading Association.
Secretary, Political Issues Affecting
Literacy special interest group of
the International Reading Association.

7. Other Professional Activities

- Garland D. Bills Evaluator of graduate program of
Department of Linguistics, University
of Texas-El Paso, February 1981.
Evaluator of abstracts of papers for
Conference on El Español en los Estados
Unidos, University of Illinois-
Chicago Circle, October 1981.
Editor, Correo de Lingüística Andina
(formerly Andean Linguistics Newsletter).
Evaluator of research proposals submitted
to National Endowment for the Humanities,
National Science Foundation, Fulbright,
and Guggenheim Foundation.
Referee for manuscripts submitted to Modern
Language Journal, Latin American Research
Review, and UNM Press.
- Alan Hudson-Edwards Member, Editorial Board, and Interim Editor,
Journal of the Linguistic Association
of the Southwest.
- Vera John-Steiner Reviewed grant applications for National
Endowment for the Humanities, National
Science Foundation, and National
Institute of Education.
- Dennis Muchisky Conducted three day seminar in ESL
teaching methods for teachers at
the University of Chiapas, Tuxtla
Gutierrez, Mexico, June 1981.
- John W. Oller, Jr. Site visit at Ontario Institute for
Studies in Education for the Social
Science and Humanities Research
Council of Canada to review a major
proposal, February 1981.
Editorial consultation with authors of
writing project for Newbury House
Publishers at Texas A&M University,
College Station, Texas, February 1981.
Series of lectures and informal consultations
with school administrators in the
Riverside vicinity from several different
California districts sponsored by the
San Diego Lau Center, February 1981.

Rodney W. Young

ACT COMP (College Outcome Measures Project) Workshop in Iowa City, Iowa, March 1981.
 Assistant Professor of Education for University of Albuquerque, teaching tests and measurement class.
 Invited participant to Workshop on Quality Education in New Mexico, Las Cruces, June 1981.

B. Non-teaching University Service (All these faculty are also members of the Educational Linguistics doctoral concentration faculty.)

Garland D. Bills

Chair, Department of Linguistics.
 Chair, Visiting Lecturers' Committee for the Humanities and Social Sciences.
 Library representative, Linguistics.
 Chair, Subcommittee on Programs, Latin American Institute.
 UNM representative for Latin American Institute in exchange visit to the Universidad Nacional Autónoma de México, June 1981.

Larry P. Corbet

Faculty Senate.
 Senate Graduate Committee.
 Sign Language Interpreting Program Advisory Committee.
 Arts and Sciences Graduate Committee.
 Linguistics M.A. Examination Committee.
 Linguistics Policy Committee.
 Anthropology Graduate Committee (Chair).
 Anthropology Tenure & Promotion Review committee for S. Rushforth.

Alan Hudson-Edwards

Arts and Sciences Graduate Committee.
 Linguistics undergraduate advisor.
 Chair, Linguistics M.A. examination Committee.

Vera John-Steiner

Research Allocations Committee.
 Senate Graduate Committee.
 Women Studies Advisory Committee.

John W. Oller, Jr.

Arts and Sciences Graduate Committee.
 Policy Committee, Linguistics.

Steven L. Strauss

M.A. Examination Committee, Linguistics.
Duke City Linguistics Circle faculty
advisor.

Rodney W. Young

Student Affairs Committee.

9. Public Service

Larry P. Gorbet

Trout Unlimited Rio Grande Chapter,
Board of Directors.

Vera John-Steiner

Addressed New Mexico Business Women's
Association.

Rodney W. Young

American Youth Soccer Organization.

THE REPORT OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS

JULY 1, 1981 - JUNE 30, 1982

W. T. KYNER - CHAIRMAN

During the academic year 1981-1982 the Department provided instruction to 14,087 students totalling 45,989 credit hours (these figures reflect the 21-day status). This is an increase of 886 students and 2,847 credit hours compared to the Academic year 1980/81. During the Summer session, 1981, the Department provided instruction to 1,275 students totalling 4,175 credit hours.

I. GENERAL DEPARTMENT INFORMATION.

A. EVENTS AND CHANGES.

1. Pre-calculus Courses and High School Programs.

During 1981-82 (including Summer 1981) 7,951 students took pre-calculus courses. They were taught by part-time faculty, teaching assistants, and a few of the regular faculty. As noted above, the number of students increased by nearly 1000 compared to the previous year. This created many problems. We had such a shortage of office space that many of our part-time faculty had to share desks. The shortage of suitable classrooms made it difficult to add new sections when needed and many of the classes were far too large. Nevertheless, the overall performance of the instructors and students was quite good. This was in large part due to Laura Cameron, the Director of Freshman Mathematics who has the responsibility of training

and supervising the teaching assistants and (with the chairman) the responsibility of supervising the part-time faculty.

The Department again administrated the mathematics placement examinations both on campus and at many of the high schools in Albuquerque. We received excellent cooperation from the mathematics faculty at the various schools. This program was started last year by Professor R. Metzler and he together with L. Cameron, J. Davis, R. Grassl, W. Kyner, and A. Steger visited the high schools, gave and graded the examinations and advised the students.

The statewide mathematics contest was continued under the Department's sponsorship. Tim Straney was in charge; R. Grassel assisted. The first part of the examination was taken by 2,400 students at 99 high schools and junior highschools. Those who did well were invited to take the more difficult second part at the University of New Mexico. 240 students took the second part. The awards banquet was held March 13, 1982.

Members of the department participated in Parent's Day, Senior Day, new student orientations, and participated in the New Mexico Science Fair. They also cooperated with the Albuquerque Public Schools in discussions of high school mathematics requirements.

2. The UNAM-UNM Program.

Our cooperative program with the Department of Mathematics of UNAM in Mexico City has grown. There are five students from Mexico who are doing graduate work here and more are expected next year. Professor S. Steinberg spent part of his sabbatical leave in Mexico City, and Professors T. Guinn and C. Wofsy gave one week seminars in biomathematics in Mazatlan. We were pleased to have Professor Bernardo Wolf of

UNAM as a visitor this summer. We are also starting an informal program with the University in Hermosillo.

3. Office and Faculty.

Dr. Gyula Bencze, from Budapest, Hungary, visited the Departments of Mathematics and Statistics, and Physics and Astronomy. Semester II of the 1981/82 academic year. He conducted seminars and presented a colloquium lecture. The prepared notes from that lecture are an excellent introduction to group theory. His research with Professors A. Gibson of our Department and Professor C. Chandler of the Physics Department resulted in an excellent paper submitted for publication. Dr. Bencze's seminars, informal discussions, and his research with members of both departments made his visit of great value to us. Dr. Homer Walker from the University of Houston was a visiting professor in the department this year. He is very well respected in numerical analysis and the department was fortunate to have him for the year. Edward Bedrick joined the department as an Assistant Professor beginning the second semester.

Professor Alfred Carasso resigned his position as Professor to accept an appointment with the National Bureau of Standards in Washington D.C. Dr. John Neu of Stanford University was hired as his replacement and will join us Semester I, 1983-84. Dr. Mutiara Buys, an applied mathematician from New York University was hired as an Assistant Professor beginning Sem. I, 1982/83. Dr. Peter Gilkey from the University of Oregon was hired as a visiting professor for Semester I. His area of research is in differential geometry and global analysis. Dr. Curtiss Barefoot, from Sandia Corporation, was hired for the academic year 198283 as a replacement for Professor Ted Guinn, who took a leave without pay for 1982/83.

Steven A. Pruess was promoted to Full Professor.

5. Recruitment, Activities, Students.

Our department continues to make significant contributions recruiting and encouraging minority students in mathematics and sciences. Most of these efforts are directed by Richard Griego. He is the Director of the Southwest Resource Center for Science and Engineering, which is funded by NSF for 2.7 million dollars for a four year period. Our department participated directly with the Resource Center this summer in offering a special workshop in computers; the first section covered logo language and the second section covered basic machine language. There was a well represented attendance from both the middle school and high school teachers. The Graduate Professional Opportunities Program has been funded for next year and we hope to have one student in that program. This is an HEW-funded Title IX program and provides fellowships to minority and/or women graduate students.

The Department Colloquium series under the guidance of Professor Alexander Stone featured thirty-seven speakers this year. Speakers came from such U. S. schools as New York University-Courant Institute (3), University of California-Berkeley (2), University of Chicago, University of Arizona, University of Houston, University of Texas-Austin, University of Wisconsin, Brown University, Rice University, Rockefeller University, Stanford University (2), New Mexico State University (2), New Mexico Institute of Technology (2), Texas A&M, and the University of New Mexico (8). We had three speakers from industries representing Los Alamos Scientific Laboratory, Geodynamics in California, and the National Institute of Mental Health. Our foreign speakers were from the University of Hungary, Australian National University, Catholic University of Chili,

and Birkbeck College in London. Three graduate students from our department presented their Defense of Dissertation during our regular colloquium scheduled hour and announcements were sent to our regular colloquium mailing list.

The Sandia Laboratory's University Education and Training Program contributed \$345.00 to the Department's graduate program to be used in any manner deemed appropriate. The Reidler Foundation from Hazelton, Pennsylvania contributed \$500 to be used for colloquium speakers.

Enrollment figures for Graduate Students are listed for the past twelve years.

1981/82	39 Full-time students,	22 part-time students.
1980/81	42 Full-time students,	23 part-time students.
1979/80	36 Full-time students,	22 part-time students.
1978/79	30 Full-time students,	20 part-time students.
1977/78	30 Full-time students,	11 part-time students.
1976/77	37 Full-time students,	17 part-time students.
1975-76	46 Full-time students,	34 part-time students.
1974-75	39 Full-time students,	26 part-time students.
1973-74	48 Full-time students,	25 part-time students.
1972-73	46 Full-time students,	41 part-time students.
1971-72	61 Full-time students,	64 part-time students.
1970-71	59 Full-time students,	44 part-time students.
1969-70	47 Full-time students,	46 part-time students.

Enrollment for Undergraduate Math Majors for the past ten years.

1981/82	134 Undergraduate Mathematics Majors.
1980/81	127 Undergraduate Mathematics Majors.
1979/80	127 Undergraduate Mathematics Majors.
1978/79	129 Undergraduate Mathematics Majors.
1977/78	110 Undergraduate Mathematics Majors.
1976/77	141 Undergraduate Mathematics Majors.
1975/76	144 Undergraduate Mathematics Majors.
1974/75	139 Undergraduate Mathematics Majors.
1973/74	112 Undergraduate Mathematics Majors.
1972/73	118 Undergraduate Mathematics Majors.

GRADUATION	1981/82	1980/81	1979/80	1978/79	1977/78	1976/77
Ph.D.	2	7	3	1	6	6
Master's	11	7	5	7	5	7
B.S.	12	16	20	15	20	32

Department Report on Graduate Admissions.

68	Original inquiries by students.
29	Applications completed and 29 not completed.
8	Rejected by the University.
10	Students declined admission offer.
21	Students accepted.

Seven of the twenty-two teaching assistants appointed in the Department of Mathematics for the 1981/82 academic year were new students in our graduate program. Graduate students admitted beginning academic year 1981/82 are listed below.

<u>NAME</u>	<u>FORMER UNIVERSITY</u>	<u>DEGREE DATE</u>
Frederick Breslin	University of Alabama	M.S. 1963
Adelaid Collins	University of New Mexico	M.S. 1966
Mansour Fahimi	University of New Mexico	B.S. 1981
Ann Greenberg	University of New Mexico	B.S. 1979
Karen Haskell	Washington State University	M.S. 1976
Takuro Hosada	U. of Calif., Los Angeles	M.A. 1981
Peter Wm Kanas	Southern Illinois University	B.S. 1981
Hsiao-Chuan Kuo	Eastern New Mexico Univ.	M.A. 1981
Ronald McConnel	U.S. Military Academy	B.S. 1973
Holly Ann Melloy	University of New Mexico	B.S. 1974
Kurt Moore	University of Kansas	B.S. 1978
Bruce Nicholson	Purdue	M.S. 1968
Agustin Pichardo-Maya	Centro de Investigacion	M.A. 1978
George William Pletsch	University of New Mexico	B.S. 1981
Alan Posich	Rutgers University	B.A. 1973
Pamela Roache	University of New Mexico	B.S. 1980
Paul Roensch	New Mexico State University	M.S. 1973
Charles Rundles	University of New Mexico	B.S. 1981
David Rutschman	Univ. Catolica de La Plata	B.S. 1979
Cheryl Schwanz	Adams State College	B.A. 1981
Jin-Hau Su	Nat. Chiao-Tang Univ. ROC	B.A. 1981

II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL

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SUPPLEMENTS.

1. ADVANCED STUDY

Michael S. Pilant: Thesis title, Ph.D. (not previously reported): "Existence of Strong Solutions to a Perturbation Problem in Plane Transonic Flow" (N.Y.U.)

Timothy Straney: Completed Computer Science 355, Spring '81, and Computer Science 357, Fall '81.

2. SABBATICALS, LEAVES OF ABSENCE, TRAVEL, ETC.

Gustave Efrogmson: Presented a paper "Extension of Nash Functions" as invited speaker at conference in Rennes, France, May 1981.

James A. Ellison: a) Sabbatical Leave - Institute of Physics, Aarhus, Denmark - August - January.

b) Visit to CERN - Geneva. c) Visit to Fermi-Lab, Chicago.

Roger C. Entringer: Sabbatical leave taken Semester II and spent part at University of Waterloo.

Bernard Epstein: a) Completed sabbatical at Univ. of Md.

b) Accepted IPA appointment at Program Manager in Directorate of Mathematics and Information Services, Air Force Office of Scientific Research, for period Aug. 1, 1981 - July 31, 1982.

A. G. Gibson: Made several trips to Los Alamos to consult and collaborate with several scientists at LANL.

Liange-Shin Hahn: On leave to University of Tokyo, Japan, from February 1981 to January 1982.

W. T. Kyner: Travel to Budapest and London in August and September.

Pramod K. Pathak: Spent summer and fall of 1981 as a Guest Scientist at the Indian Statistical Institute, New Delhi, under a grant from the National Science Foundation.

Steven Arthur Pruess: University of British Columbia, Vancouver, 1980-1981 academic year.

Stanly Steinberg: Sabbatical leave for the academic year 81-82 Visiting Professor in Mexico City at UNAM for Fall '81.

Carla Wofsy: a) Presented three invited lectures at the German Cancer Research Center in Heidelberg and at the Department of Mathematics, University of Mainz, Germany; June, 1981. b) Attended and lectured at a Biophysics Workshop, Aspen Center for Physics, July 1981.

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

Richard J. Griego: Awarded renewal of \$106,700 for the Minority Access to Research Careers Program; Awarded \$30,000 grant from Ford Foundation for math program; Awarded \$50,000 from NSF for Minority High School Apprenticeship Program; Awarded renewal of \$230,000 from U. S. Dept. of Educ. for Biomedical Sciences Program.

4. PUBLICATIONS.

Richard C. Allen: An algorithm for solving Fredholm equations with displacement kernel's (w/G. Boicourt). J. Math. Anal. Appl. 80 (1981) 245-260; Alteration in pentobarbital and merperidine pharmacokinetics induced by bile duct litiación in the rat (w/R.G. Knodell, D. Brooks, W. T. Kyner). J. Phar. Exper. Therapeutics 215 (1980) 19-621; An analysis of an inverse problem in ordinary differential equations (w/S. Pruess) SIAM J. Sci. and Stat. Comp. 2 (1981) 176-185; Receptor depletion in diabetesmellitus: correction with therapy (w/R.P. Eaton, R. Galagan, L. Russell, F. Miller). Diabetes Care 14 (1981) 299-304.

Robert F. Cogburn: Birth and death processes with random environments in continuous time. J. Appl. Prob. vol. 18, 19-30 (1981) with Richard D. Bourgin.

Evangelos A. Coutsias: "Long-time Behavior of Ginburg-Landow Systems far From Equilibrium", Phys. Rev. B 24, (2592-2602) 1981. Virtual cathode formation in electron beams as a Bifurcation Phenomena", Proc. 4th Inv. Top Conf. High Power Electron and Ion Beam Research and Technology, (Ecole Polytechnique, Palaiseau, France, 1981.

"Space-Charge Limit Instabilities in Electron Beams", submitted to Phys. Rev. A. Completed work on mathematical study of particle beams, under grant of \$21,500 from Sandia Nat'l. Labs. Two more publications are forthcoming based on results of this study. Grant with Sandia Laboratories "Mathematical Analysis of the Onset and Time Dependent Behavior of Virtual Cathodes. 10/1/80 - 9/30/81 for \$21,200

Donald Dubois: "Real Commutative Algebra III" published in Rev Math Hispano-Americana (with Bukowski, A.)
"A Second Note on Artin's Solution of Hilbert's 17th Problem". published in Pac. J. Math. Dec. 1981.

Gustave Efroymsen: The Riemann Mapping Theorem for Planar Nash Rings", Pac. Journ. Math. p. 73-78, 1981.

James A. Ellison: "Dechanneling by Curved Planes: Dislocations & Bent Crystals", Physics Letters, Vol. 83A, #6.

"Radiation from Planar Channeled 5-55 GeV/c Positrons & Electrons", accepted by Physics Letters B.

"The Influence of Anharmonic Potentials in Calculations of Planar Channeling Radiation from GeV Positrons", submitted to Physics Letters B.

"Bending of GeV Particle Beams by Channeling in Bent Crystal Planes", submitted to Nuclear Physics B.

Roger C. Entringer: "Girth of Cubic Graphs with Annular Symmetry"
 Proceedings of the Fourth International Conference on the Theory
 and Application of Graphs, Wiley, (1981), 317-329.
 "A Census of Maximum Uniquely Hamiltonian Graphs", (with C. Barefoot).
 J. Graph Theory. 5(1981), 315-321.

Howard D. Fegan: "The Laplacian with a Character as a Potential
 and the Clebsch-Gordon Numbers", accepted for publication in the
 Oxford Quarterly Journal of Mathematics.
 "Special Function Potentials for the Laplacian", submitted for
 publication.

A. G. Gibson: "N-Body Quantum Scattering Theory in Two Hilbert
 Spaces. III, Approximation Solvability", (with C. Chandler),
 submitted.
 "Connected Chandler-Gibson Equations and Few Body Collisions",
 (with W.N. Polyzou and C. Chandler), submitted.
 "Multiparticle Scattering Theory and the Method of Coupled
 Reaction Channels", (with Gy. Bencze and C. Chandler), in
 preparation.

Richard Grassl: "Polynomial Ring Generated by Tableau Shapes",
 European J. of Combinatorics (1981) 2, 27-39 (with A. Hillman)

Liange-Shin Hahn: "Remarks on the Proofs of Theorems of deLeew
 on Fourier multipliers, and the Wiener Tauberian Theorem",
 accepted in Publications of the Research Institute in Math-
 ematical Sciences, Kyoto University, Japan.

Reuben Hersh: "The Mathematical Experience" (with P. Davis)
 Birkhauser Boston.

Abraham P. Hillman: "Polynomial Ring Generated by Tableau
 Shapes", Eur. Jour. of Combinatorics, V.2, Mar. 1981, pp.
 27-39 (w/R.M. Grassl).
 "Proportional Allocation in Integers", Fibonacci Quarterly,
 V. 19, Aug. 1981, pp. 233-240.
 "The (41st) W.L. Putnam Math. Competition", Amer. Math.
 Monthly, Vol. 88, Oct. 1981, pp. 605-612 (w/L. Klosinski
 & G. L. Alexanderson).

Lambert H. Koopmans: "Introduction to Contemporary Statistics"
 Duxbury Press, Boston, Mass., Feb. 1981.
 "Overview of Lipoprotein Metabolism: Perspectives in a Free
 Living Southwest Population in Bernalillo County, NM (with
 R. Philip Eaton, R. C. Allen, Jr., Harry Ellis, Jonathan
 Abrams and David S. Schade), in Human Nutrition, Clinical
 and Biological Aspects, Philip J. Garry, Ed., Proceedings
 of the Fourth Arnold D. Beckman Conference in Clinical Chemistry,
 pp. 109-120. American Assoc. for Clinical Chemistry, 1981.
 "Serum Androgens and Sex Hormone Binding Globulin in Obese Pima
 Indian Females" (with Frances Purifoy, R. Tatum and D. Mayes),
 Journal of Physical Anthropology, 55, pp. 491-496, 1981.
 "A New Introductory Course in Statistics", in Proceedings of the
 Ohio State Conference on The Teaching of Statistics and Statistical
 Consulting, December, 1981.

W. T. Kyner: "The Effect of Increased CSF Pressure on Interstitial Fluid Flow during Ventriculocisternal Perfusion in the Cat" w/G.A. Rosenberg and E. Estrada, to appear in Brain Research. "Effects in Ethinyl Estradiol on Pharmacokinetics of Meperidine and Pentobarbital in the Rat" w/Allen, Knodell. J. of Pharmacology and Experimental Therapeutics. To appear.

Richard C. Metzler: ""Basical: Structure your Basis" in 80 Micro-computing Sept. 1981 pp. 334-342.

J. Patrick Miller: Monthly column in national magazine Model Rocketeer published by the National Association of Rocketry; magazine is distributed nationwide and Canada through 200 hobby shops; it is distributed monthly to 2500 association members; there is limited distribution in Europe and Asia.

C. W. Onneweer: "Bessel Potential Spaces and General Lipschitz Spaces on Local Fields, in Functional Analysis and Approximation" ISNM 60, Birkhauser Verlag 1981, 129-137.

Pramod K. Pathak: "A Bayesian Approach to Accelerated Life Testing" (with W.J. Zimmer) Proc. Ann Reliability and Maintainability Symposium" IEEE Cat. No. 81CHI618-8.

"A Symptotic Normality of the Average of Distinct Units in Random Sampling of Distinct Units in Simple Random Sampling with Replacement. Statistics and Probability Essays in honor of C. R. Rao (G. Kallianpur et. al., ed.) North Holland Publishing Company (1981).

Steven Arthur Pruess: "An Analysis of an Inverse Problem in Ordinary Differential Equations" w/R. Allen, SIAM J. Sci. and Stat. Comp., 2(1981), 176-185.

"On Spline Basis Selection for Solving Differential Equations" with U. Ascher, R. Russell, to appear in SIAM J. Numer. Anal.

Ronald M. Schrader: "Use and Interpretation of Robust Analysis of Variance" in Proceedings of ARO Conference on Modern Data Analysis, Academic Press (1981).

"Robust Preprocessing of Time Series", Los Alamos Scientific Laboratories Technical Report.

Stanly Steinberg: "Lie Series, Perturbation Theory and Factored Products" submitted for publication. "Symbol Manipulation and Mathematics" submitted for publication.

Alexander P. Stone: "Conservation Laws of Fluid Dynamics" SIAM Review, Vol. 22, No. 1, p. 12-27, 1980.

"Conservation Laws and Differential Concomitants, J. Diff. Geom. Vol. 15, p. 595-603, 1981.

Carla Wofsy: "Analysis of Coated Pit Recycling on Human Fibroblasts, Cell Biophysics 3, 251-277. July, 1981. Co-author Byron Goldstein.

"Interactions of Low Density Lipoprotein Receptors with Coated Pits on Human Fibroblasts: Estimate of the Forward Rate Constant and Comparison with the Diffusion Limit" Proc. Natl. Acad. Sci. USA 78, 5695-5698. Sept. '81. Co-authors: Byron Goldstein and George Bell.

William J. Zimmer: "A Bayesian Approach to Accelerated Life Testing" - 1981 Proceedings Annual Reliability and Maintainability Symposium Jan. 1981, pp. 371-374 IEEE Cat. No. 81CHI618-8.

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS.

Richard C. Allen: Metabolic heterogeneity of LDL-apo B production in familial hypercholesterolemia: an analytical model solution of tracer data (w/R. P. Eaton, D. Schade). To appear: J. Lipid Research: Effects of ethinyl estradiol on pharmacokinetics of meperidine and pentobarbital in the rat (w.R. G. Knodell, W. T. Kyner). To appear: J. Pharm. Exper. Therapeutics; completed sophomore-junior level text on ordinary differential equations (w/W. T. Kyner, D. A. Sanchez). To be published by Addison-Wesley. Research in progress: model of insulin kinetics in man (w/R. P. Eaton); numerical solutions of Fredholm integral equations of the first kind (w/G. M. Wing, W. R. Boland). NICHD Grant: Physiologic and Developmental Mechanisms in Diabetes, co-investigator, \$35,000 (5th year of five year grant).

Alfred Carasso: Principal investigator: U.S. Army Research Office Grant for Research in Ill-Posed Problems.
Amount: \$103,000.

Robert F. Cogburn: Markov Chains in Stationary Random Environments.

Evangelos A. Coutsias: Completed work on mathematical study of particle beams, under grant of \$21,500 from Sandia Nat'l Labs. Two more publications are forthcoming based on the results of this study. Grant with Sandia Laboratories, "Mathematical Analysis of the Onset and Time Dependent Behavior of Virtual Cathodes. 10/1/80 - 9/30/81 for \$21,200.00

Ralph E. DeMarr: Equivalent linear programming problems, Doubly stochastic elements, Refinement of nonnegative idempotents.

Donald Dubois: a) Subordinate Structure Sheaves, accepted for publication in Proceedings of the Rennes Journées (with Dr. Tomás Recio) b) General numeration I. Gauged schemes and c) General numeration II, Division schemes, both accepted for publication by Rev. Math. Hisp-Amer. d) Proceedings of the San Francisco Conference on ordered fields and real algebraic geometry, accepted by Contemporary Mathematics (this is a book I edited in collaboration w/Dr. Tomas Recio.

Gustave Efrogmson: "The Nashing of a Real Surface" should appear soon. "The Extension Theorem for Nash Functions" completed. "A Survey of Nash Functions" almost completed. "Extensions of Nash Functions off a Real Curve" in progress. Submitted proposal to NSF to start summer 1982 to study Nash functions.

James A. Ellison: a) NSF two year grant funded at \$25,000 for "Theoretical Investigation of Particle Channeling".
 b) Channeling Continuum Model by Method of Averaging.
 c) Henon-Hiles Surface of Section Calculations in Axial Channeling.
 d) Thermal effects in Channeling.

Roger C. Entringer: i and ii) "Partitions of E^d by hyperplanes (with R. A. Gibbs) and "Detours in digraphs (with D. Jackson and H. Swart) both to appear in the Proceedings of the Twelfth Southeastern Conference on Combinatorics, Graph Theory and Computing, Utilitas Mathematics.

iii) "A short proof of Rubin's block theorem" - submitted for publication. iv) How often is a polynomial bounded by three sides?" (with G. Purdy) - submitted for publication.

Howard D. Fegan: Research proposal: "Lie Groups and Differential Equations", submitted to National Science Foundation. Research Conference Proposal: "Exterior Differential Systems" funded (\$10,200) by National Science Foundation. This was jointly with Prof. Stone.

A. G. Gibson: NSF 2-year grant for \$59,000 (with C. Chandler) for research project entitled "Non-relativistic Multichannel Quantum Scattering Theory." Research proposals were also sent to DOE and AFOSR. DOE ranked our proposal 2nd out of 84 proposals submitted to the Division of Nuclear Physics.

Richard Grassl: Submitted to European J. of Combinatorics "Slicing Skew-Tableau Frames" (w/A. Hillman).

Liange-Shin Hahn: a) On Fourier transforms of ultradistributions.
 b) On an extension of the Phragman-Lindelhoff theorem.

Reuben Herish: Proposal to NSF for renewal of current grant. Title: Random Evolutions and Operator Differential Equations. \$31,545.00 6/15/80 to 11/30/82.

Abraham P. Hillman: Book review of "The Mathematical Gardner, edited by D.A. Klarner" to appear in the Mathematical Intelligencer. Manuscript prepared for the 3rd edition of "Abstract Algebra," a text published by Wadsworth Pub. Co. (co-author is G. L. Alexanderson)

Lambert H. Koopmans: a) A Spectral Analysis Primer, to appear in Handbook in Statistics, Vol. 3, P.R. Krishnaiah, Ed.
 b) Biomedical Applications of Tukeys Curve Straightening Technique writeup in progress. c) The solution of a Combinatorial Prediction Problem, work initiated in a consulting project, to be written up for publication. d) The Statistics of Dose-Response Curves, work underway w/R.C. Allen.

W. T. Kyner: Research in Neurobiology with Dr. G. A. Rosenberg, Dept. of Neurology, supported by grants from the Veteran's Administration, American Heart Assoc. and March of Dimes.

Richard C. Metzler: "Assembling Forth" submitted. "Disc Copy Utility" in preparation.

Merle Mitchell: Planned and taught a special one-hour course on Problem Solving for mid-school and high school teachers of mathematics (June 1981) (Math 439)

C. W. Onneweer: Generalized Lipschitz Spaces and Herz Spaces on Certain Totally Disconnected Groups (completed) NSF grant MCS 8001870, 1979-1982, \$31,788. (I applied for an additional NSF grant). I originated a new course, Math 460.

Pramod K. Pathak: Papers awaiting publication: i) A symptotic normality in fixed cost simple random sampling (with S. K. Mitra). ii) A symptotic normality in inverse sampling with unequal probabilities (with S. K. Mitra). Discussion Paper No. 8116, Indian Statistical Institute, New Delhi. iii) A new variance formula for unbiased estimation in inverse sampling. Discussion Paper No. 8118, Indian Statistical Institute, New Delhi. iv) Algorithms for optimal integration of two or three surveys (with S.K. Mitra). Discussion Paper No. 8201, Indian Statistical Institute, New Delhi. This research was partially supported by the NSF grant INT - 8020450 and completed while I was visiting the Indian Statistical Institute, New Delhi (Grant Amount: \$15,000 approx.; Duration: June 1981 - Nov. 1982. Further work on graduate text in sampling, on reliability with Zimmer and on asymptotics and integration of surveys in sampling (with S. K. Mitra) is in progress.

Michael S. Pilant: Currently investigating local behavior of shocks in the neighborhood of a supercritical airfoil, by means of numerics and matched asymptotics. Preparing proposal for grant support of same.

Steven Arthur Pruess: Approximation of the continuous spectrum via the spectral density function, with C. Fulton, to be submitted.

David A. Sanchez: A mathematical model of the revenue obtainable from a shrimp fishery, to appear in Argentine Journal of Fisheries Research and Development. Co-Principal Investigator Director: Under Department of EECs, Periodic Optimization with Applications to solar temperature control systems. 6/1/80 - 5/31/81 - \$77,799.00 and from 6/1/81 to 5/31/82 - \$81,676.00.

Ronald M. Schrader: "An Efficient Algorithm for Robust Estimation in Large Linear Models Problems," manuscript in preparation.

"Robust Analysis of Variance Based on 1, Estimation," submitted to Jour. Amer. Statist. Assoc. Army Research Office Grant, 1/1/81 - 5/1/81.

Stanly Steinberg: NSF Grant. "Symbol Manipulation" 40,000.00 2 years Army Grant. "Symbolic-Numeric Fluid Dynamics Codes, 20,000.00 6 months.

Alexander P. Stone: a) Proposal for NSF Research Conference (to be held at UNM, Jan. 1982) on Exterior Differential Systems. b) Invited paper for special issue of Tensor (in preparation). c) Research on spectrum of Laplacian (in progress). d) Research on Differential Concomitants (in progress). e) Reviewer for Math Reviews and Zentralblatt Für Mathematik (11 reviews written in 1981).

Carla Wofsy: Received: i) Biomedical Research Support Grant Funds from an NIH grant to the University, Jan. 1, 1981 - Dec. 31, 1981; amount: \$2,050; title of project: Mathematical Analysis of Receptor-Mediated Endocytosis. ii) American Heart Association Grant-in-Aid, July 1, 1981-June 30, 1982; amount: \$5,874.00; title of project: Mathematical Analysis of Low Density Lipoprotein Function.

William J. Zimmer: a) Research proposal: Research in Quality Control, Reliability and Sample Surveys (with P. Pathak) submitted to Army Research, Air Force Research, Office of Naval Research and Nat. Research Found. (b) "Prior Information and Accelerated Life Testing" reading for submitting to IEEE Transactions on Reliability. c) "A New Test for Random Dispersion Patterns" ready for submitting to Biometrics.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

Richard C. Allen: Presented papers at: SIAM National Meeting in Cincinnati, OH (10/81); SINUM in Albuquerque, NM.

Laura Cameron: a.) Invited speaker at a MAA (Mathematics Assoc. of Amer.) meet. in Las Cruces, NM, April '81. Subject: Remediation in Mathematics at the University Level. b) Invited participant at conference; Quality Education in N.M.: Designs for the Future; June '81 in Las Cruces, NM. c) Attended conference; Focus on You and What's New in '82: Academic Support Program in Las Cruces, NM in Nov. '82.

Alfred Carasso: Invited speaker, International Conference on Improperly Posed Problems, Oberwolfach, West Germany, October 1982.

Robert F. Cogburn: Gave contributed paper at annual summer meeting of the Institute for Mathematical Statistics in Vail, Colorado. Title: Markov chains in random ergodic environments.

Evangelos A. Coutsias: Conference on Nonlinear Phenomena, LANL, Spring 1981. Conference on Optical bistability, LANL, August '81.

Donald Dubois: Organized and chaired the Special Session on ordered fields and real algebraic geometry. Jan. '81 at the San Francisco Annual Meeting of the AMS.

Gustave Efroymsen: Attended American Math Society in San Francisco, Jan. 1981, and presented 1st paper in 5 as a talk.

James A. Ellison: Presented 3 papers at 9th International Conference on Atomic Collision in Solids, Lyon, France - July 1981. Presented paper at Strasbourg meeting on Atomic Collision Theory - July '81.

Roger C. Entringer: Attended joint national American Mathematical Society - Mathematical Association of America meeting in San Francisco. Presented paper "Detours in Digraphs" at Twelfth Sputheastern Conference on Combinatorics, Graph Theory and Computing in Baton Rouge.

Bernard Epstein: Attended Conference on Decision and Control, San Diego, California. December 16-18, 1981. (Sponsored by IEEE and SIAM)

Howard D. Fegan: "The Spectrum of the Laplacian on Forms over a Lie Group". Presented at University of Manchester, England. I attended the "Arbeitstagung" at University of Bonn, West Germany. Paper: "The Heat Equation and Macdonald's Identities" presented at regional meeting of American Mathematical Society, Amherst, Massachussets.

Richard Grassl: Referee for the Pacific Journal of Mathematics, and for the European Journal of Combinatorics, associate editor of the American Mathematical Monthly. Selected as member in Jan. '81 for the Putnam Intercollegiate Math. Comp.

Richard J. Griego: Offices held: Member, Editorial Comm. of Notices of Amer. Math. Soc.; Exec. Comm. of Nat. Council of Chicanos in Higher Educ.; Board of Advisors of Fund for Improvement of Post-Sec. Educ.; President-elect of NM Acad. Sciences; Annual meeting Amer. Math Soc; mtg. of Nat. Council of Chicanos in High. Educ.; FIPSE Board mtg.

Liange-Shin Hahn: a) Gave a talk "Remarks on the proofs of two theorems in Fourier analysis" during the seminar on Complex Methods in Fourier Analysis, held at the Research Institute in Mathematical Sciences, Kyoto University, Japan, March 23-26, 1981. b) Attended the Seminar on Real Analysis at Kanazawa University, Japan, Oct. 29-31, 1981. c) Gave a colloquim talk on Fourier transforms of ultradistributions, at Tohoku University, Sendai, Japan, on Nov. 27, 1981. Also submitted a research proposal to Japan Society for Promotion of Sciences.

Reuben Hersh: Am. Math Soc. - Nominating Committee
Steele Prize Committee.

Abraham P. Hillman: Associate Director of the W. L. Putnam Mathematical Competition. Associate Editor of the American Mathematical Monthly. Elementary Problems Editor of the Fibonacci Quarterly.

Lambert H. Koopmans: a) Attended and chaired a session at the Western Regional Meeting of the Institute of Mathematical Statistics, Victoria, BC, June 1981. This was the last meeting I organized in my capacity of Associate Program Secretary for the Western Region, since my term expired this year.

b) Appointed Associate Editor for the American Statistician, a journal of the American Statistical Association.

c) Resigned from the editorial board of Communications in Statistics, having served on the board since the creation of the journal in 1975.

d) Served on the Survey Committee of the Educational Section, American Statistical Association.

e) Lectured at Fort Lewis College in the capacity of Visiting Lecturer; Committee of Presidents of Statistical Societies.

X W. T. Kyner: Attended annual meeting of American Math. Soc. in San Francisco in January. Lectured at Brown University in April. Lectured in Workshop in Dynamical Astronomy, Budapest in Aug.-Sept. Visited St. Thomas's Hospital Medical School and King's College, London in September.

Richard C. Metzler: Reviewer for Zentralblatt der Mathematik.

Merle Mitchell: Invited talk at NCTM regional meeting in El Paso, Oct. 9, 1981.

J. Patrick Miller: President, National Association of Rocketry (nationwide hobby service organization) Member of Board of Directors, Society for the Development of Gifted and Talented (Albuquerque service organization for parents and children; 250 members) Member of Board of Directors, Wheel in the Manzanos (theater arts school for children)

C. W. Onneweer: I attended Amer. Math. Soc. meeting in San Francisco, CA (Jan. 6-10, 1981) I attended the NSF-CMS Conference on Martingale Theory in Harmonic Analysis in Cleveland, Ohio, (August 14-19, 1981) Member Rocky Mountain Math Consortium. Summer School Committee.

Pramod K. Pathak: Papers awaiting publication: i) 3rd Annual Conference of the Indian Society for Theory of Probability and Its Applications, August 22, 24, 1981, New Delhi.

ii) Indian Statistical Institute, Bangalore, Nov. 17, 1981.

iii) University of Cochin, Nov. 19, 1981.

Steven Arthur Pruess: Referee for various professional journals.

David A. Sanchez: Member, Council of the American Mathematical Society.

Ronald M. Schrader: "Applications of QR decompositions to statistical problems" talk given at Western Michigan University. "An efficient algorithm for robust estimation", talk given to Albuquerque chapter of ACM/SIGNUM.

Stanly Steinberg: Attended ACM meeting on Symbol Manipulation in June '81. Attended AMS meeting on Exterior Differential Systems in January of '82.

Alexander P. Stone: a) Mathematics Department Colloquium Chairman. b) Co-organizer of Math Department seminar on Exterior Differential Systems, fall 1981.

Carla Wofsy: Attended annual meeting of the American Mathematical Society, Jan. 1981.

William J. Zimmer: Spoke on my research in Accelerated Life Testing at Annual State Meeting of the American Statistical Assoc. April 1981.

7. OTHER PROFESSIONAL ACTIVITIES.

Richard C. Allen: Visiting staff member, Los Alamos National Laboratory; Consultant, Air Force Weapons Laboratory.

Laura Cameron: Reviewed two books on elementary algebra and one on Math for Elementary School Teachers.

Alfred Carasso: Visiting staff member Los Alamos National Laboratory.

Evangelos A. Coutsias: Designed and held a workshop titled "Microcomputers in the classroom" for Southwest Resource Center at UNM in June, 1980, and a follow up w/R. Schrader) in June 1981 to introduce mid and high-school teachers of Mathematics to the microcomputer. Held an adjunct position and supervised a project by a student in the Physics Dept., Fall, 1981.

James A. Ellison: a) Participating in a Channeling Radiation experiment at CERN. b) Participating in a Beam Bending experiment at Fermi-Lab. c) Consultant to the Ion-Solid interactions group at Sandia National Labs.

Roger C. Entringer: Gave a talk "Some elementary combinatorial problems" at University of Waterloo seminar. Reviewer for Mathematical Reviews and Zentralblatt fur Mathematik (a total of 17 papers) Referee for J. Graph Theory, J. Combinatorial Theory, Discrete Mathematics and Indian National Science Academy (a total of 12 papers).

Bernard Epstein: Presented colloquium lectures: a) Rensselaer Polytechnic Institute (Troy, N.Y.) b) Howard University (Washington, D.C.), February 5, 1981. c) Temple University (Philadelphia, Pa.) April 8, 1981.

A. G. Gibson: Reviewer of papers for Mathematical Reviews. Gave three talks as a speaker for the UNM Speakers Bureau Program.

Richard J. Griego: 1. Math talk - City Coll., N.Y. 2) Math talk - UC Berkeley. 3) TV appearance - Somos Bilingues Channel 7. 4) Talk to LULAC Job Fair. 5. Site visitor for MARC Program. 6) Presentation to Senate Comm. on Science, Space & Tech. 7) Summer intern, Exploratorium, San Francisco. 8) Judge, NM Science Fair

Theodore Guinn: Reviewed for Math Reviews. Evaluated a calculus manuscript for the publisher, Prindle, Weber and Schmidt.

Frank J. Kelly, Jr.: Gave 8 weekend seminars in Calculus, statistics and Computer Science to the Masters in Management Program at the Anderson School of Management in the Fall of 1981.

Lambert H. Koopmans: a) Consultant, Micro Systems, Inc.
 b) Consultant, Environmental Improvement Div., State of NM.
 c) Consultant, Diabetes Grant, UNM School of Medicine.
 d) Director of the departmental Statistical Laboratory.

W.T. Kyner: Consulted in the Veteran's Adm. Medical Center.

J. Patrick Miller: Fund-raiser and principal organizer for the National Association of Rocketry's annual convention. Member of steering committee for Spring Conference for the Society for the Development of the Gifted and Talented. Fund raising presentation before Albuquerque Evening Optimists Club (Society). Guest on Channel 13 community service program (Wheel).

C. W. Onneweer: Referee N.S.F. proposals.

Glenn L. Pfeifer: Taught class at Jemez Pueblo for AIPC-PTEP.

Ronald M. Schrader: Consultant for Data Information Associates, working on time series problems.

Stanly Steinberg: Gave a 5 hour lecture series called "Lie Series" at AFWL. Gave 8 hr. demonstration of symbol manipulation at Sandia Labs.

Alexander P. Stone: a) Mathematics Department Colloquium Chairman. b) Co-organizer of Math Department seminar on Exterior Differential Systems, fall 1981.

Timothy Straney: Appeared on local TV to promote the high school math contest.

Carla Wofsy: Lecture to Sigma Xi, scientific honor society, New Mexico Institute of Technology, Socorro, March, 1981.

William J. Zimmer: a) Reviewed a book manuscript: Understanding Randomness: Exercises for Statisticians by David Salsburg for the author and the publisher, Marcel Dekker Inc. b) Consulted with a graduate student in Guidance and Counseling Dept. about the statistical analysis of some research data.

8. NON-TEACHING UNIVERSITY SERVICE.

Richard C. Allen: Chairman, Graduate Committee, Dept. of Math & Stat.; Member, Arts and Sciences Graduate Committee.

Laura Cameron: Served on: Students Standards & Grievance Committee, Faculty Senate Admissions and Registration Committee, Faculty Senate Undergraduate Committee, Math Department.

Alfred Carasso; Usual committee and advisement.

Robert F. Cogburn: Director of graduate studies for Mathematics and Statistics.

Evangelos A. Coutsias: Served on the Math. Dept. Graduate Committee. Served as faculty advisor in the Math Dept., Fall 1981.

Ralph E. DeMarr: 1. Advisor for Putnam Mathematics Competition. 2. Chairman of MA-Ph.D. Examination Committee. 3. Member of Travel Committee. 4. Member of Committee to Restore Language Requirements.

Donald Dubois: Faculty Library Committee member; Graduate Committee of Dept. of Math; Ph.D. advisor to Victor Espino and Carlos Andradadas.

Gustave Efrogmson: Chairman of departmental undergraduate committee.

James A. Ellison: Director of Graduate Studies for Applied Mathematics; TA-GA Selection Comm.; Design of a new course in Stochastic Differential Equations; Practicum advisor.

Roger C. Entringer: Supervise the operation of department library.

A. G. Gibson: UNM Athletic Council, Dept. Salary Comm., Travel Comm. (chm.), Graduate Comm., Master's Exam Comm., French Examiner, Chairman of Search Comm. in Analysis, Promotion Comm., Math 120 Coordinator, Math 316 Coordinator.

Richard Grassl: Coordinator of 11 sections of Math 162, coordinator of 4 sections of Math 123, Director of Graduate Studies in Pure Math; served on 2 Ph.D. comprehensive committees; constructed the NM Math Contest (2 rounds); made 3 visits to HS students for Office of School Relations; Administered placement exams at local high schools; constructed algebra Master's exam.

Richard J. Griego: SW Research Inst. Policy Comm. (chairman); Hispanic Engr. Prog. Adv. Comm. UNM/UNAM Convenio Implementation Comm.; Science Center Comm.

Abraham P. Hillman: Coordinator for Math 180.

Lambert H. Koopmans: a) Computer Use Comm., (Consulting Subcommittee Chairman & member of Math and Stat package subcommittee); b) A & S Policy and Curriculum Committee; c) Departmental Teaching Load & Salary Committee; d) Statistics Position Search Committee Chairman.

W. T. Kyner: Member of Research Policy Committee and Computer Use Committee.

Richard C. Metzler: Assoc. Dean of A&S. Member A&R Committee. Member School Liason Committee. Ambassador's visit to Las Vegas & Raton. Albuquerque high school senior visitation program.

Merle Mitchell: Member of Departmental Undergraduate Committee; Chairman of Joint Advisory Mathematics Committee (A&S, COE, APS); faculty sponsor of Kappa Mu Epsilon; member of Departmental Salary and Load Committee; scheduler for Math-Ed courses; presented a talk in Math 295 in Spring 1981; helped grade math contest Nov. '81.

J. Patrick Miller: Assisted in T. A. conference (Mathematics) and follow-up on teaching by T.A.'s. Monitor T.A. teaching progress over the semesters. Do Fall, Summer, Spring scheduling; do summer budget; do T.A. and part-time instructor scheduling.

C.W. Onneweer: Member Computer Use Committee, member Research Policy Committee, member of various departmental committees. Ph.D. advisor for one student.

Pramod K. Pathak: Coordinator, Practicum committee.

Glen L. Pfeifer: Co-ordinator for Math 120.

Michael S. Pilant: Set up interviews for a prospective graduate student with math faculty.

Steven Arthur Pruess: Director of Graduate Studies in Applied Mathematics.

David A. Sanchez: President, Faculty Senate.

Ronald M. Schrader: UNM Faculty Senate Budget Review Committee. UNM Faculty Senate Computer Use Committee subcommittee on math and statistics package.
A&S Computer Use Committee.
Math Dept computer use chairman
Math Dept course scheduling committee
Supervise dissertation work of Rebecca Gore
Math Dept Graduate Committee

Arthur Steger: Faculty-Staff Benefits and Welfare Committee; A&S Promotion Committee; Math Dept: (1) Transcript Evaluation (2) Sabbatical Committee (3) Schedule Coordinator for Pure Math (4) Math 264 Coordinator.

Alexander P. Stone: a) Sabbatical review committee (Math Dept.)
b) Member, UNM Faculty Senate.

Timothy Straney: Currently director of the high school math contest, serve on the University's School Relations Committee and the Department of Mathematics Undergraduate Committee. Participated in last year's Calling Campaign. Served as coordinator of Math 100, Spring '81, and Math 163, Fall '81.

Carla Wofsy: i) College of Arts and Sciences representative to the Faculty Senate. ii) Undergraduate advisor, Department of Mathematics and Statistics.

William J. Zimmer: a) Participated in the making of a TV tape for the Guidance and Counseling Dept. b) Served on ASUNM Speakers Committee. c) Served as Roger Johnson's thesis advisor and chairman of his committee (he received his Ph.D. this semester. d) Served on thesis committee of Linda Zimmerman (Economics Dept)

9. PUBLIC SERVICE.

Richard C. Allen: Active in church.

Laura Cameron: Was a speaker on a panel at a conference sponsored by the New Mexico Network for Women in Science and Engineering. The conference title was New Horizons and it was geared toward encouraging high school girls to choose professions in scientific areas (am a member of the Network)

Roger C. Entringer: Conducted classes for gifted students at Highland School.

Richard J. Grasso: Board of Directors, Matthew Meadow Neighborhood Assoc.

Richard C. Metzler: Board member and group leader: Parentcraft Inc. (Parent education program).

J. Patrick Miller: Do weekly workshops in mathematics and computers for gifted children (ages 8-14). Assisted with World Balloon Fiesta model rocket hobby activities. Appeared on Channel 4 evening news with workshop children.

Michael S. Pilant: Involved in local refugee placement for Afghani family (St. Mark's on the Mesa, Episcopal). Help provide music for 9:00 Sunday service.

Timothy Straney: Put in volunteer time at St. Francis Nursing Home during the summer of '81.

William J. Zimmer: Spoke at meeting of Alb. Scoliosis Society.

The Report of the Department of Modern and Classical Languages

July 1, 1981 - June 30, 1982

Sabine R. Ulibarrí, Chairman

I. General Information

A. Significant Achievements.

1. Departmental Organization: Chairman: Sabine R. Ulibarrí; Assistant Chairman: John J. Bergen. Language section coordinators: John J. Bergen (Spanish), Claude-Marie Senninger (French), Robert Jespersen (German), Byron Lindsey (Russian), Jack Tomlins (Portuguese), Warren Smith (Classics), Roseann Willink (Navajo), Paola Quargnali (Italian), Pearl Wu (Chinese). Administrative appointments outside the Department: Garland Bills (Chairman, Linguistics), Julian White (Associate Dean, College of Arts and Sciences), Natasha Kolchevska (Chairperson, Russian Studies), Dick Gerdes (Director of Academic Affairs of the Latin American Institutes); Marshall R. Nason (Director, Ibero-American Studies Program).

Sabine R. Ulibarrí will retire from the chairmanship of the department, effective July 31, 1982, after having served with distinction in that office for the past nine years. Similarly, Professor John J. Bergen has resigned his posts as assistant chairman of the department and coordinator of the Spanish section, also effective July 31, 1982. Professor Tamara Holzapfel has been appointed as the new chairperson and Professor George

Peters will again serve as the new associate chairperson; they will assume their duties on August 1, 1982.

Since Professor Gerdes will be on sabbatical leave in the Fall, Jon Tolman will replace him as Director of Academic Affairs of the Latin American Institute during the 1982-84 academic years.

Because of the impending retirement of Professor Marshall R. Nason, the two collaborating departments, History and Modern and Classical Languages conferred concerning his replacement as Director of the Ibero-American Studies doctoral program, a responsibility he has discharged for the past fifteen years. Dr. Edwin Lieuwen, associate director for the History Department for approximately the same period of time, tendered his resignation, also, making it necessary to provide two replacements. By virtue of their versatility in the principal program fields, namely Latin American history and Spanish-American and Luso-Brazilian literature, the two faculty members selected were Dr. Michael Conniff of History and Dr. Jon Tolman of Modern and Classical Languages who will serve, respectively, as Director and Associate Director. Since Professor Conniff is to be on sabbatical leave during semester I, 1982-83, Professor Tolman will initially take over the reins as acting director. Until Professor Conniff returns from leave and assumes fully the responsibilities of Director, the program offices will continue to be housed in Ortega Hall and in the Department of Modern and Classical Languages, as has been the case since the Latin American Center was superseded by the Latin American Institute and those offices were transferred to the new Institute quarters at 801 Yale. After Professor Conniff's assumption of duties

presumably the Ibero-American Studies office will follow him to Mesa Vista Hall. This means, also, that certain administrative support services (photocopying, ditto reproduction, mail service, supplying of office materials, etc.) will shift from Modern and Classical Languages, which has borne them these many years, to the Department of History. Actual transfers of responsibilities will occur after the conclusion of Semester II, 1982-83. Since the retiring officers and successors will be on campus during summer session, 1982, they have projected discussions concerning plans and recommendations for the near future (including possible program modifications) as well as the transfer of responsibilities. By that time they will have at their disposal the results of the program evaluations currently being carried out by the Latin American Institute.

The Latin American Institute has taken over the editorship of the Latin American Research Review; Professor Tamara Holzzapfel will serve as associate editor of the journal for the next five years. She has also been elected delegate of the Rocky Mountain Modern Language Association for a term of three years.

2. New and Continuing Programs.

a. Spanish Section.

- 1) A Spanish language and literature Summer school will be held for the second consecutive year in Almería Spain. Professor Alfred Rodríguez is the director of the program.

b. French Section.

- 1) The 5th session of the French Summer School of New Mexico is doing well with about 35 students already enrolled. Last

Summer we had 33. Eminent professors from all over the world participated in the session last year and this year will be even better. Professor Charles Senninger from the Sorbonne Nouvelle taught two courses last year and this year Professor Gilbert Sigaux from the Conservatoire d'art dramatique will teach a course in the history of the theatre. We have added a pedagogical course given by Professor Christian Martinez of the BELK. We feel confident that this course will be followed by others and that this may lead to a pedagogical option which seems to be very attractive to high school teachers from all over the United States. We have enlarged our options for the M.A. in French (four Summers in Taos or one school year on the UNM campus, with possibility of an assistantship, and the summers before and after that at Taos. This seems to be very attractive to the high school teachers.

- 2) The Glorietta weekend in April was a huge success with more than 300 participants. For the first time we had to refuse some late requests, because there was no more room. The program headed by Professor Book, was enlarged this year to include our French students at UNM. We had seminars on three levels: high schools teachers and students, university students, and Alliance Française d'Albuquerque students.

c. Classica Section.

- 1) Classics enrollment, and class offerings, expanded during 1981-1982. The Fall enrollment in 1981 was up 30% over the previous year; for Spring 1982, the figure was up about 65%.

- 2) In addition to Latin 101, 102, 201, and 202, Greek 101 and 102 being offered continuously every semester, New Testament Greek was offered in Spring 1982 as a computer-taught course, with students completing work on the Terak computer in the Religious Studies department, setting their own pace for progress and hour exams. Starting Fall 1982, then to be called Greek 104, this course will be available every term to those students who want to do New Testament Greek at a pace and during hours which are convenient to their own schedules.
- 3) Latin 101 was also offered for the first time as an evening course in Spring 1982, taught by Diana Balsan, who is a teaching assistant in French. In the meantime, Latin 101 will be offered in the Summer session 1982 for the first time since pioneer days, along with Greek 102.

d. Chinese Section.

- 1) For the second consecutive year Professor Pearl Wu is conducting a Chinese language program for children and adults. It is sponsored by the Office of International Programs and Services and is coordinated by Professor Frederick D. Ju of the Department of Mechanical Engineering. In the Spring semester of 1982 there were four sections and an enrollment of forty students.

3. Cultural, Professional and Social Activities.

a. Spanish Section.

- 1) Professor John J. Bergen attended the Modern Language Association Convention in New York City in December 1981. At the convention he interviewed fourteen candidates for

the vacant position in Spanish linguistics. He recommended Professor Shaw Gynan of the University of Texas at Austin for that post. The Spanish faculty concurred and Professor Gynan has accepted the position here.

- 2) Professor June Carter has received a 1982 Research Allocation Grant to do research in Costa Rica during the Summer of 1982.
- 3) The section has sponsored a series called Letras Vivas during the Spring semester of 1982. Both faculty and students from the Spanish section participated in this series by reading from their own creative works. One session became a special event honoring Professor Sabine Ulibarri upon his retirement as chairman of the department. Students read from his works and presented him with a handcrafted plaque.
- 4) Other lectures sponsored or cosponsored by the Spanish were Hector Cincotta, an Argentine poet (and alumnus of UNM) who spoke about his creative vocation; the Mexican writers Elías Nandino (poet) and María Luisa Mendoza (novelist), who lectured about and read from their own work; and Professor John Fein of Duke University who delivered a series of lectures on Spanish American topics.
- 5) Since Professor Marshall Nason retired at the end of the academic year, a special event in his honor was prepared by the students of the Spanish American Seminar in Drama (taught by Professor T. Holzapfel) on May 9, in the International Center.

- 6) A departmental dinner was held on May 2nd at the home of Professor Tamara Holzapfel in honor of Professor Ulibarri (upon the occasion of his retirement from the chairmanship).
- 7) Professor and Mrs. MacCurdy hosted a dinner for the Spanish faculty on May 15th in honor of Professors Ulibarri and Nason.

b. French Section.

- 1) Jacques Douai's visit in March was greatly appreciated by everyone. A great deal of pedagogical preparations was done around this singer who presented not only modern songs but poems from the Middle Ages to our days put to music by different composers. The high school and university students had studied the material beforehand, in order to make it a more fruitful experience.
- 2) The French film festival was held in April at the Don Pancho theatre. It was sponsored by the French government and the department with the help of the Department of Theatre Art. Eight movies shown in four days attracted students and people from the community. Under the direction of Professor Lise Hoshour there were all kinds of events attached to it, like round table discussions and lectures.
- 3) In April too Mr. Jean-Cladue Moreau, consul général de France à Los Angeles, came to present Claude-Marie Senninger with the medal of Officier des Palmes Académiques in a ceremony held in the Museum of Albuquerque.
- 4) Professor Book, as president of the New Mexico chapter of the American Association of the Teachers of French, organized

the yearly Distribution des Prix in Ortega Hall on May 2nd. The annual event was greatly enlarged this year since high school teachers and their students participated. Among the awards given were books from the French government pins and posters from Quebec, scholarships from the Alliance Française d'Albuquerque earmarked to help a student go to France or to Taos, and scholarships from the AATF to help high school teachers go to Quebec or to France. M. André Camp, eminent lecturer of the Alliance Française presented a lecture (with slides) on the Comedie Française.

c. Portuguese Section.

- 1) In conjunction with the department, the Latin American Institute, SOLAS, and the graduate students of Modern and Classical Languages, the Portuguese section sponsored a guitar concert on March 31, 1982. The concert featured Brazilian music by the popular Tico da Costa, who was on a national tour; it attracted over 400 people.
- 2) In conjunction with the department and the Arts and Sciences Visiting Lecturer's Committee, the Portuguese section sponsored a lecture by Anazildo Vasconcelos da Silva on April 19, 1982. Professor Silva spent the Spring semester of 1982 as a visiting professor at the University of Arizona, on leave from the Federal University of Rio de Janeiro, where he is a Graduate Professor of literary theory and Brazilian literature.
- 3) The Portuguese faculty have been active this year in a variety of meetings and symposia. Professor Jack Tomlins

attended the Modern Language Association Convention in New York in December 1981 and the Louisiana Conference on Hispanic Literatures at Louisiana State University in February. At the latter conference he read a paper entitled "Gil Vicente's Prose Carta of 1531 and the Theological Concept of Time". He spent Spring semester on sabbatical leave and was awarded a grant from the Fundação Calouste Gulbenkian for research in Portugal during the Summer of 1982. Professor Jon Tolman, on sabbatical leave during the Fall 1981 semester, went to San Francisco in November where he delivered lectures at San Francisco State University on "Comparative Cultural Development: Brazil and Latin America" and at Stanford University on "Trends in Contemporary Brazilian Literature: Literary Reflections of Repression." In December of 1981 Professor Tolman delivered a paper on "Os Novos e Novíssimos Brasileiros" at the annual MLA Convention in New York. In April of 1982, Professor Tolman participated in the Fifth Symposium on Portuguese Traditions at UCLA, where he delivered a paper entitled "Rubem Fonseca's Moral Vision." During the Spring of 1982, Professor Tolman delivered on campus lectures on Sebastianism in Brazil and Portugal for Professor McDermott, on comparative patterns of colonial development in Brazil and Latin America for Professor Bakewell, on the Fall of Portuguese Africa for Professor Kern and on the contemporary Brazilian painter, Glauco Rodrigues, for Professor Grizzard.

d. Classics Section.

- 1) The "Friends of Antiquity" tea in September kicked off the season for Classics. It was held in the Ortega lounge and

about 40 students and faculty attended.

- 2) A Latin club began meetings in Fall 1981 on student request; it was discontinued in the Spring but there are plans for renewal in the Fall.
- 3) Last year the Classics program began publishing and distributing its own brochure, thanks to efforts of Prof. Diana Robin. She has also organized Wednesday afternoon colloquia at which members of the language faculty presented papers followed by discussion.

e. Russian section.

The 1981-82 academic year was an especially active one for the Russian section thanks to a stimulating and friendly partnership between faculty and students involving many extra events outside the regular academic program.

- 1) In January Natasha Kolchevska was elected to the chair of Russian Studies, the interdepartmental program around which much of the academic and extra-curricular events of the section center.
- 2) Through the support of the Office of International Programs and Services, the section was able to offer a wide range of cultural events for Russian students: lectures by Paul Panish on Russian-Jewish emigration in February and by George Gibian, Professor of Russian Literature at Cornell University, on Russian nationalism in March, and a showing of the new Soviet film Stalker in April. In addition, there was the first New Mexico Soviet Film Festival--the screening of four classic silent films--in March; the faculty hopes

to make this project an annual event.

- 3) In February Professor Bella Mendez, a Russian instructor at the Instituto Politécnico de México, visited the department, consulting with the faculty as well as serving as guest-lecturer in a number of classes. The Russian faculty hopes to establish an on-going exchange program with the Instituto. Students in the UNM program are also corresponding with Russian language students there.
- 4) During both the Fall and Spring semesters members of the Russian Studies staff held a monthly colloquium with students on topics connected with the program and with current events in the Soviet Union. The Russian Club has been lively with a number of purely social evenings such as Russian dinners and conversation with the faculty and Russian speakers in the community.
- 5) Three Russian students will be studying at the Intensive Slavic Workshop of Indiana University this summer--two on scholarships awarded through the International Office. Great interest is also shown for studying at the Pushkin Institute in Moscow. Byron Linsey is national academic coordinator of the program and this accessibility to information and preparation for the program has generated considerable enthusiasm among the Russian students.
- 6) Faculty members Natasha Kolchevska and Byron Lindsey will both participate in the Slavic Research Laboratory in the summer at the University of Illinois.

B. Significant Plans and Recommendations for the Near Future

1. Spanish section.

- a. An international symposium commemorating the birth centennial of the Spanish philosopher José Ortega y Gasset, will be hosted by UNM in October, 1983. Professor Pelayo Fernández is the director of the symposium. Other faculty members who will participate in the activities are Professors Angel González, Bruno Hannemann, Tamara Holzapfel, Byron Lindsey, and Alfred Rodríguez (all from the Department of Modern and Classical Languages) and also Robert Kern (of the History Department), Gilbert Merckx (of the Sociology Department), and Fred Sturm and Howard Tuttle (of the Philosophy Department).
- b. A symposium on Santa Teresa de Jesús and Sor Juana Inéz de la Cruz has been planned for the Fall of 1982.

2. French section.

- a. A symposium New Mexico-Quebec is planned for the fall. Three authors from Quebec and three from New Mexico will gather in Albuquerque for a few days and in Trois-Rivières, Quebec, for a few days to discuss and present papers on the following topic: The author vis-à-vis his language. The symposium will be bilingual if not trilingual.
- b. In the spring we expect to host the visit of Michel Butor to UNM and plan a symposium on the writer and the visual arts.

3. Portuguese section.

The Portuguese section will participate with the Latin American Insitute in a Brazil Summer Institute in Taos during the Summer of 1983. Funded for \$105,000:00 by the U.S. Department of Health, Education, and Welfare, the Institute will be a special post-doctoral training seminar for Latin Americanist faculty in all fields who need to add a Brazilian dimension to their curricula. The Institute will feature outstanding visiting faculty and will offer scholarships and travel grants for twenty participants.

4. Classics section.

The Classics faculty has begun negotiations with the English Department faculty on the issue of offering a minor in Medieval and Renaissance Studies, possibly to extend to a major next year: courses in Latin, Old French, Portuguese, and Spanish would be possible parts of a student's program.

5. Russian section.

Plans for 1982-83 include a second Taos Russian Workshop, the first workshop was conducted by Professor Lindsey the participants made rapid progress in spoken Russian through living and studying in a Russian speaking environment. It is hoped that the second workshop will be funded in the future.

C. Appointments to Staff:

1. Shaw Gynan was appointed a Visiting Professor of Spanish, effective in the Fall of 1982. In the event that he completes his doctoral dissertation by August 1982 his appointment will be that of Assistant Professor of Spanish. Professor Gynan is a specialist in Hispanic sociolinguistics.
2. The well know Mexican novelist Gustavo Sainz joined the Spanish faculty in August 1981 as Professor of Spanish American Literature.
3. Edward Benson was appointed as an Assistant Professor of French, effective in the Fall of 1982.

D. Separations from Staff:

1. Professor Marshall R. Nason retired at the end of the 1981-1982 academic year.
2. Assistant Professor Joan Dargan of the French section resigned in December due to health reasons. Assistant Professor Kenneth Cool was hired on a one semester contract to fill the position in French for the Spring semester only.
3. We were saddened by the loss of our colleague and friend, Professor Enrique E. Lamadrid, who died on June 17, 1982.

II. Composite of information requested on individual biographical supplements:

1. Advanced Study
 - a. Sam L. Guyler, Assistant Professor. Attended Modern Language 457, Beginning Japanese at UNM, Fall 1981 to get a better idea of the student's perspective in learning a language.
2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.
 - a. Truett Book, Associate Professor. Co-director, French Summer School, Taos.
 - b. June C. Carter, Assistant Professor. Tinker Summer Research Grant, Costa Rica, 1981 RAC Grant, to be used Summer 1982 in Puerto Limón, Costa Rica.
 - c. Pelayo H. Fernández, Professor. Sabbatical leave Spring semester. Travel Spain, France, and Portugal.
 - d. Erlinda Gonzales-Berry, Assistant Professor. Research trip to Mexico City, July 1981. Member of Committee on UNM-UNAM Convenio; Trip to Mexico City, March 1981.
 - e. Robert Holzapfel, Associate Professor. Summer teaching at the German Summer School at Taos.
 - f. Tamara Holzapfel, Professor. Sabbatical leave Fall semester; Research at University of California, Berkeley Library (Nov.)
 - g. Natasha Kolchevska, Assistant Professor. March and May 1981, Reserach at libraries at University of California, Berkeley and UCLA.
 - h. Byron Lindsey, Assistant Professor. Inspection-negotiations teams, American Council of Teachers of Russian, Pushkin Institute, Moscow, USSR, November 30 through December 5, 1981.

- i. Marshall R. Nason, Professor. Director, Ibero American Studies. Sabbatical leave Spring semester, 1981. Traveled to Costa Rica, Nicaragua and Panamá.
 - j. Diana Robin, Assistant Professor. RAC Grant to study Francesco Filelfo in Florence, Italy, Summer 1981.
 - k. Alfred Rodríguez, Professor. Director, UNM Summer Session in Almería (SPAIN), June 8 through July 17, 1981.
 - l. Claude-Marie Senninger, Professor. Summer grant from the Quebec government to study literature; Quebec City: July 15 through August 15, 1981.
 - m. Jon M. Tolman, Associate Professor. Sabbatical leave Fall semester, 1981.
3. New scholastic honors, fellowships, etc.
- a. June C. D. Carter, Assistant Professor. Tinker Summer Research Grant, Costa Rica, 1981 (Interviews with well-known novelist); RAC Grant, Puerto Limón, Costa Rica ("Costa Rican Literature and the Afro-Costa Rican Experience")
 - b. Erlinda Gonzales-Berry, Assistant Professor. Tinker Research Grant, Summer, 1981. Research Grant from Research Allocations Committee, UNM. Research proposal for the collection of Spanish language materials submitted to NEH Ethnic Heritage Grants, January, 1981, in collaboration with Gerdes, Maciel, not funded.
 - c. Marshall R. Nason, Professor. Service Award. 30 years' recognition.
 - d. Claude-Marie Senninger, Professor. Nominated Officer of the Academic Palms by the French Government; Honorary consul of France for Albuquerque and the southern half of the state.

Regional representative for the American Association of the Teachers of French (Region VIII).

- e. Jack Edward Tomlins, Professor. Research grant from Gulbenkian Foundation, Lisbon.
4. Publications.
- a. John J. Bergen, Associate Professor. Review of Nash, Rose and Belaval, Domitila, editors, Readings in Spanish and English contrastive Linguistics, Volume II, in Hispania, December 1981, Volume 64, Number 4, page 651.
- b. Truett Book, Associate Professor. Two 'Catnets de Travail' one for French Weekend in Glorieta, one for French Summer School, Taos.
- c. June C. D. Carter, Assistant Professor. A. "Juan del Valle y Caviedes' Satirio Language of Racism," Studies in Afro-Hispanic Literature, Vol 5, Fall 1981. "El otro in Fuentes' La muerte de Artemio Cruz," Prismal/Cabral, vol. 6, Spring 1981. Review of Carlos Fuentes' Burnt Water to appear in Latin American Literary Review, Fall 1981.
- d. Pelayo H. Fernandez, Professor. Books: Ideario etimológico de J. Ortega y Gasset. Gijón, Flores, 173 pp. Simposio Internacional Ramón Pérez de Ayala (editor-contributor). Gijón, Flores, 163 pp. Articles: "La etimológico: en el ensayo de Pérez de Ayala Unamuno y Ortega", Oviedo, (Spain), La nueva España, January 17, p. 17. "Pérez de Ayala y la teoría de lo cómico de Bergson", Ibid., February 8, p. 48. "Norteamérica vista por Ramón Pérez de Ayala y Henri Bergson", Simposio Internacional de Lengua y Literaturas Hispánicas. Bahía Blanca (Argentina, Universidad Nacional del Sur, pp. 81-93. "Prefacio" to the book Simposio Internacional Ramón Pérez de Ayala. Gijón, Flores, pp. 7-8. "Ramón Pérez de Ayala y los Estados Unidos", Ibid., pp. 15-25.
- e. Dick C. Gerdes, Associate Professor. "Monólogo desde las tinieblas; Oral Tradition and Ideological Silence," Rocky Mountain Review, 35, 4 (1981), 271-280; "Crónica de San Gabriel y el rito de la iniciación en la novela de costumbres," Journal of Spanish Studies; Twentieth Century, 8, e (1980), 239-247; "Cultural Values in Three Novels of New Mexico," The Bilingual Review, 7, 3 (1980), 239-248. "Padre Martínez and Bishop Lamy, by Ray John de Aragón," in New Mexico Historical Review, 56, 2 (1980), 198-200; Memorias of Antonio José Martínez, by Ray John de Aragón, and Memorias sobre la vida de presbítero Don Antonio José Martínez, by Guadalupe Baca-Vaughn, in New Mexico Historical Review, 56, 2 (1980), 198-200.
- f. Angel González, Professor. "Dos poemas" ("Los cuadernos del Norte" año II, nº 8, p. 55) "Tres poemas": Antología de la poesía española contemporánea (1939-80), Madrid, 1981, pp. 278-80; 281-82; 290-91. "Prólogo" a Rimas de J. R. Jiménez, edición del Centenarios Taurus, Madrid, 1981.

- "Verbalización del paisaje y credo estético", in Simposio internacional R. Pérez de Ayala, Gijón, 1981, pp. 148-56.
- "La poesía de Juan Ramón Jiménez en su contexto", "Los cuadernos del Norte", año II, n^o 10, pp. 28-35. "15 poemas" in G. Correa: Antología de la poesía española, 1900-80, Madrid, Gredos, 1980, Vol. II, pp. 462-474.
- g. Erlinda Gonzales-Berry, Assistant Professor. "Una fuente probable del poema, Castilla de Perez de Ayala," in Simposio Internacional Ramón Pérez de Ayala (Imprenta Flores: Guijón, Spain), 1981, pp. 157-163. Co-authored with Alfred Rodríguez. "Spanish for Native Speakers: A Rationale and Course Outline," in Teaching Spanish to the Hispanic Bilingual, Valdez, Lozano, Moya eds. (New York: Teachers College Press), 1981.
- h. Sam L. Guyler, Assistant Professor. The Four Skills Exam (FSE), A Spanish Language Proficiency Examination for the Certification of Bilingual Teachers, Grades K-8; Nov. 1981, UNM Testing Division.
- i. Tamara Holzappel, Professor. Article: "The Theatre of Maruxa Vilalta: A Triumph of Versatility," Latin American Theatre Review (Spring, 1981), 11-18. Review: Cabrera Infante by Rosa María Pereda. Journal of Spanish Studies: Twentieth Century. 8,3 (1980), pp. 336-337.
- j. Enrique E. Lamadrid, Associate Professor. Several under preparation.
- k. Byron Lindsey, Assistant Professor. Accepted: Review, Blue Lagoon Anthology of Modern Russian Literature, to appear in World Literature Today, Winter, 1982 issue, Norman, OK. Editor: Literary Contributions, Soviet-American Conference on Russian Language, Sept 9-11, Evanston, IL. (Book to be published in 1982.)
- k. Patricia Murphy, Associate Professor. Book reviews: Bossière, Gamille R. The Dark Age of Enlightenment: An Essay on Québec Literature. World Literature Today LaBelle Marc. Alfred Jerry: Nihilism and the Theater of the Absurd French Review, April 1981 pp.741-742.
- l. Marshall R. Nason, Professor. Chapter: "La organización de la educación superior en los Estados Unidos" in: Jústiz, et al., Panorama de la Educación Superior en América Latina y Estados Unidos. Albuquerque, UNM Printing Plant, 1981, pp. 35-53. "En la mitad del Mundo" in: Ruiz Fornells, Enrique and Cynthia, The United States and the Spanish World, Madrid, Sociedad Central Española, pp. 233-237.
- m. Peter Karl Pabisch, Associate Professor. Articles: "Oswald Andrae und Walter A. Kreye: Zur niederdeutschen Dialektdichtung der Gegenwart," QUICKBORN: ZEITSCHRIFT FÜR PLATTDEUTSCHE SPRACHE UND DICHTUNG, 71, 4, Hamburg (1981). (20 typewritten pages). "R.C. Artmann", Encyclopedia of World Literature in the 20th Century, New York, 1981, 128-129. "Otto Breicha, Hrsg., protokolle: Wiener Halbjahresschrift für Literatur, bildende Kunst und Musik. Wien, 1978. "MODERN AUSTRIAN LITERATURE" 14, 1/2, 1981, 188-189. "Fritz Grasshoff. Der blaue Heinrich: Roman. Munich, Nymphenburge 1980." Fall 1981: World Literature Today. 10 further reviews to DIALECT, Vienna, Intern. Dialect Institute. CONSULTING EDITOR: Jose Reyna with Sigrid Wohlgemuth-- Chicano Idioms with accompanying translations into Spanish, English, German, Vienna, 1982 (to appear

- n. Diana Robin, Assistant Professor. The Manuscript Tradition of Oppian's Halieutica (a monograph), published in the Bollettino dei Classici by the Accademia Nazionale dei Lincei (Rome: 1981), pp. 28-94. (seria terza --Fascicolo II). Forthcoming: "Greek Lyrics of Alcaeus and Euripides" in Classical Outlook (Atlanta: 1981), issue p?
- o. Alfred Rodríguez, Professor. "Una técnica cervantina de caracterización," Revista Canadiense de Estudios Hispánicos, 5 (1980), 101-105, with R.R. MacCurdy. "Spanish and Spanish American Literature," Encyclopedia Americana Annual (1981), 341. "El gran teatro del mundo y el Quijote de 1615," Cuadernos del Sur, 13 (1980), 123-30. With R.R. MacCurdy. "An Aesthetic Use of the Grotesque in Pardo Bazán's Los Pazos de Ulloa," Revista de Estudios Hispánicos, 15 (1981), 275-81. With Joan Lefkoff. "Bernarda Alba, Creation as Defiance," Romance Notes, 21 (1981), 1-4. "A Likely Contemporary Source for the 'Dammed be the First Builder of Boats' Topos," Bulletin of the Comediantes, 33 (1981), 63-66. with Jack Tomlins. "Un título y una protagonista," Anales Galdosianos, 15 (1980), 128-31. "Sobre la 'Dedicatoria' del Quijote de 1605: la realidad ambivalente de Cervantes," Estudios Filológicos, 16 (1981), 169-73. with R. R. MacCurdy. "Algo más sobre los zapateros de Pérez de Ayala," in Simposio Internacional Ramón Pérez de Ayala (Gijón: Imprenta Flores, 1981), 91-98. "Una fuente probable del poema Castilla de Pérez de Ayala," in Simposio Internacional Ramón Pérez de Ayala (Gijón: Imprenta Flores, 1981), 157-162. with Erlinda Gonzales.
- p. Warren S. Smith, Associate Professor. "The Latinity of Laura Certa and Brother Thomas," chapter published in Laura Cereta by Albert Rabil, Jr. (Binghamton, N. Y. 1981) pages 113-117.
- q. Jon M. Tolman, Associate Professor. "Luso-Brazilian Bibliography," MLA Bibliography 1980, Vol. II, pp. 183-194. "Introduction" to Snake's Nest, a translated novel by Ledo Ivo, pp. v-viii (New York: New Directions, 1981).
- r. Jack Edward Tomlins, Professor. "A Likely Contemporary Source for the 'Dammed be the First Builder of Ships' Topos." Bulletin of the Comediantes, Vol. 33 (Spring, 1981), No. 1 pp. 63-66 (With Alfred Rodríguez).
- s. Sabine R. Ulibarri, Professor. Primeros Encuentros, First Encounters (Bilingual Short Stories). Bilingual Press, Michigan. Coming out in January; Pupurupu (Bilingual stories for children). Coming out in Mexico and Spain in July; One Voice of Juan Hispano (Collection of essays), Looking for a publisher; "Hombre sin Nombre". "Relleno de Dios" (Mosaico) (Harcourt Brace, Anthology of Chicano Literature); "Se fue por clavos" (Anthology of Chicano, Puerto Rican and Cuban Literature, D.C. Heath).
- t. Julian Eugene White, Jr., Professor. "The Consonification of 'yod' in "loose-linking" Phenomenon in the Romance Languages," Zeitschrift für das Studium der Romanische Philologie, XII, 187-203. Review of Gordon Pocock, Boileau and the Nature of Neo-Classicism (Cambridge University Press; 1980) in French Review. Vol. 54, No. 6, May 1981, 866-867.

5. Other research projects or creative work in progress or completed during period.

- a. John J. Bergen. Co-editor of Spanish and Portuguese in Social Context to be published by Georgetown University Press, Washington, D. C. Director of Ph. D. dissertation of Dale April Koike, "A Sociolinguistic Analysis of the Inflected Infinitive in Colloquial Brazilian Portuguese" completed December 1981.
- b. June C. D. Carter. Articles in Press: A. "Otra vez Fuentes y Unamuno" sent to Revista Iberoamericana. B. "La negra as Metaphor in Afro-Latin American Poetry," revised and sent to Caribbean Quarterly. C. José Agustín: An Assessment, book of critical essays sent to University of Missouri Press. D. "Quince Duncan and the Metaphor of Double Consciousness," in progress. E. "The Contemporary Afro-Latin American Short Story: Process and Reality," paper and article to be read at annual LASA convention and published in proceedings, Washington, D.C. March, 1982.
- c. Pelayo H. Fernandez. Research completed on book on Pérez de Ayala. Research in progress on book on Unamuno.
- d. Angel González. In press: Antología (poetry), Alianza Editorial, Madrid. Aproximaciones a Antonio Machado, Universidad Autónoma de México.
- e. Erlinda Gonzales-Berry. Survey of attitudes of Mexicans toward Chicana carried out in Mexico City, July, 1981, funded by Tinker Research Grant. "Doctor, Writer, Warrior Chief," Review Essay of La verdad sin voz by Alejandro Morales; solicited by The Bilingual Review. Review of Tina Villanueva, Antología histórica y literaria chicana; solicited by the Hispanic American Historical Review, December 1981.

- f. Bruno Hannemann. Scholarly articles: "Die Rolle des Geldes bei Raimund and Nestrou." Written in co-op. with Ph. Lenz. Finished in January 1982. "Wider den tierischen Ernst. Lachen des Steppenwolfs (Hesse)." Work in progress. Finished by Summer 1982. Book: Journey to Narcissia, a satirical novel about America.
- g. Robert Holzapfel. Work in progress on Dürrenmatt book.
- h. Tamara Holzapfel. Completed three articles now under consideration for publication. Completed chapter for a book.
- i. Robert C. Jespersen. Cadet Teaching in the Preparation of FL Teachers (In preparation) Development of Verbal Complements into Separable Prefixes (In Preparation).
- j. Natasha Kolchevska. Article submitted: "The Use of Kira Georgievna" as a Language Teaching Text. In progress: "Two Polarities within Lef: Tret'jakov and Shklovsky"; "Tret'jakoy's Theater."
- k. Enrique E. Lamadrid. My major project continues to be the preparation of a second edition of my textbook Communicating in Spanish which is scheduled to appear in January 1983. I direct a team of writers that includes a professor from the University of Texas at Austin, a teacher in the Austin public schools, a professor at Abilene Christian College, a professor at the University of Texas at Arlington, and a professor at Northern New Mexico Community College.
- l. Byron Lindsey. IREX Grant Proposal Committee (Alan Hudson-Edwards, chairman), January-April. The proposal was not successful, but required many weeks of work during this period. Research projects in progress: Tolstoy's Hadji Murat (book) The Young Avant-Garde (unofficial Russian art--book).

- m. Patricia Murphy. Article: *La Femme de Lettres* in 18th century France (in mail). Paper: Freedom of Choice in *La Grecque moderne* will be presented in March annual meeting of ASECS. Article: *Rousseau Mythology of Food* (in progress).
- n. Peter Karl Pabisch. ARTICLES: 1) H.C. Artmann: Questions of his fundamental Literary Contribution (in English). A chapter in MAJOR FIGURES IN CONTEMPORARY AUSTRIAN LETTERS, University of California Press (to appear). 25 pages. 2) "Hilde Spiels Rückkehr nach Wien", in *Exile Literature*, University of California. (to appear), 18 pages. 3) "The Banat-German Literary Scene" (to appear), World Literature Today. 10 pp. 4) (with George Peters): *The First Six Years of the German Summer School: 1976-1981: The Works of a Successful Pedagogical Model*. (100 pp., to appear).
- o. Diana Robin. "Patronage among the Humanists: the Case of Francesco Filelfo" (RAC- summer 1981) (this paper, read as part of the MCL department lecture series, is being submitted to Renaissance Quarterly). "Ten New Manuscripts of the *Hallieutica*" (RAC- summer 1981) (This paper will be submitted to the Journal of the American Philological Association).
- p. Alfred Rodríguez. 1. "The Gnostic Dimensions of Lope de Vega's *La Circe*," accepted for publication by Hispanic Journal. 2. "Los itinerarios de la Segunda Parte del *Quijote*," accepted by Kanina. 3. "The Enchantment of Dulcinea and Cervantes' Perception of Reality," accepted by Romance Notes. 4. "Algo más sobre la visitación subterránea de Sancho Panza," accepted by Crítica Hispánica. 5. "Apierian Imagery in Antonio Machado," accepted by Modern Language Studies.

6. "Lo prohibido, ¿una parodia galdosiana?," accepted by Bulletin of Hispanic Studies. 7. "Las posibles resonancias cervantinas en un título galdosiano: La desheredada," accepted by Anales Galdosianos. 8. "Hércules y Segismundo: tema y carácter senequistas de La Vida es sueño," accepted by Journal of Hispanic Philology. 9. "La función barroca de las artes en Peribáñez," accepted by Neophilologus. 10. "La desesperanza de la Nochebuena: Larra y Galdós," accepted by Anales Galdosianos. 11. "En torno a un poema de Machado: 'Los olivos'," accepted by Romance Notes.
- q. Claude-Marie Senninger. Baudelaire by Théophile Gautier, a book, near completion. In press: "Theophile Gautier and George Sand", paper presented at the Symposium George Sand, San Diego State University, 11-12 February 1981. In press: "Le passage du milan ou la voie butorienne du dévoilement", paper given at the Butor Symposium organized by World Literature Today, University of Okla. at Norman, 13-14 November.
- r. Warren S. Smith Jr. Is working on long-term project involving the satiric voice in Latin literature.
- s. Jon M. Tolman. Prepared for a special issue of Poetics Today (Tel Aviv), edited by Richard Kostelanetz: a) A monograph entitled "The Context of a Vanguard: Towards a Definition of Concrete Poetry." b) Three translations of essays from Portuguese to English: Augusto de Campos, "The Concrete Coin of Speech." Haroldo de Campos, "The Informational Temperature of the Text." Décio Pignatari, "Concrete Poetry, A Brief Structural-Historical Guideline." c) Various translations of poems. Two translations accepted for a book entitled The Experimental Tradition in Literature: Critical Essays, ed. Richard Kostelanetz (Buffalo, NY: Prometheus Books, 1982 (projected):

- a) Augusto de Campos, "Points -- Periphery -- Concrete Poetry."
- b) Augusto de Campos, Haroldo de Campos and Décio Pignatari, "Pilot Plan for Concrete Poetry." 3. Monograph article, entitled "O Univer Lúdico-Lúcido de Edilberto Coutinho," to be published in Spring 1982 along with "Edilberto Coutinho no Tenso Futebol da Existencia," by the Fundação José Augusto (Rio Grande do Norte). Condensed version of same article coming out in Jorge de Sá's Edilberto Coutinho, O Espaço do Jogo (Diretoria de Cultura do Estado da Paraíba). 4. Article entitled "Lygia Fagundes Telles" together with translated selections from her book A Disciplina do Amor, accepted for forthcoming issue of Review magazine. Completed work on an anthology under contract with Fairleigh Dickinson University Press, entitled "Brazil's New Fiction," and due for publication in 1982. Grant Proposal for the preparation of Spanish training materials to be prepared during Summer of 1982. Grant will cover a two-year period for a total of \$65,000.00. Grant submitted to national office of Amigos de las Americas in Houston, Texas.
- t. Jack Edward Tomlins. Review for Cêvea-Brown (in press, 1982); bilingual anthology Portuguese lyric poetry, 1940-1980, research grant from Gulbenkian Foundation, Lisbon; trans. of Jorge de Sena novella, to be published in 1982; article on Carlos Drummond de Andrade to be published 1982; preparing paper to read February 19, 1982, Baton Rouge, at 3rd Hispanic Conference on Hispanic Languages and Literature (LSU); book to be published 1983; preparing paper for next year: South Atlantic Modern Language Association (Atlanta).
- u. Sabine R. Ulibarrí. Working on collection of short stories. Commentator for documentary film for KNME.

- v. Julian E. White. Book on Comparative Romance Philology with phonology and morphology in chart form. Study of "u" preterites in Romance. Study of consonification of "wau". Article on feminism in the Roman Empire.
6. Activities in learned and professional societies (meetings attended, office held, professional papers read, etc.)
- a. John J. Bergen. New Mexico director, Sigma-Delta-Pi, National Hispanic Society. Attended the Modern Language Association Convention in New York, NY., December 27 through December 30, 1981, at which I interviewed candidates for a job opening in Spanish Linguistics at UNM.
- b. Garland D. Bills. "The Delimitation of Andean Linguistics", paper presented at 5th International Andean Linguistics Workshop, Ithaca, NY, July 1981. (Also attended there the 10th Symposium of Programa Interamericano de Lingüística Y Enseñanza de Idiomas, July-August, 1981.) "Realistic and Urgent Targets in New Research for the 1980's" invited paper presented at the Conference on the Investigation of Form and Function in Mexican-American (Chicano) English, El Paso, September 1981. (Also served as session chair at this conference.) Linguistic Society of America: attended annual meeting in New York, December 1981, where I served as chair of the meeting of Department and Program Chairs and as an invited participant at the meeting of the Committee of Presidents concerning a fund raising effort; nominated by Executive Committee to stand for election to the Nominating Committee (not elected in mail balloting).
- c. Truett Book. President, American Association of teachers of French, New Mexico; presided at meetings in Albuquerque and Las Cruces, NM

- Vice president, Alliance Française d'Albuquerque, member administrative counsel.
- d. June C. D. Carter. A. Director of panel "Racial and National Identity in Afro-Latin American Literature," at convention of Rocky Mountain Council on Latin American Studies, Las Cruces, February 1981. B. "Juan del Valle y Caviedes' Satiric Language of Racism," paper read at Sixth Symposium on Afro-Hispanic Literature, Center for Inter-American Relations, New York, June 1981. C. "Literary Blackness in Costa Rica: The Works of Quince Duncan," paper read for LAI Noon-time lectures November 12, 1981. D. "Quince Duncan and Contemporary Afro-Latin American Literature: An Assessment," paper read for the Junior Faculty Lecture Series of Modern and Classical Languages, November, 1981.
- e. Pelayo H. Fernandez. Attended Lecture Series on Pérez de Ayala at University of Oviedo (Spain).
- f. Dick C. Gerdes. A. "Las dos cabezas: lo erótico y lo exótico en función de lo moral," '63rd Annual Meeting of the American Assoc. of Teachers of Spanish and Portuguese (Seattle, August, 1981): B. "Fantomas contra los vampiros multinacionales: El Gran Engaño," Conference on Popular Culture in Latin America, (Las Cruces, March, 1981): "Monólogo desde las tinieblas: Oral Tradition."
- g. Angel González. A. "Notas a la poesía erótica de Juan Ramón Jiménez" a paper read in "Simposio sobre J. R. J., "Universidad Internacional Menendez Pelayo, Santander, Spain, 1981. B. "La poesía de Juan Ramón Jiménez en su contexto", a paper read in "J.R.J.: A Centennial Celebration", University of Wisconsin, Madison, September 25-26, 1981. C. Participant of "Congreso Internacional de Escritores", México

- March, 1981. D. Participant of "Encuentro de escritores de lengua española", University of California, Berkeley, March, 1981.
- h. Erlinda Gonzales-Berry. A. Organizer and Moderator of panel, "Los mexicanos en la literatura chicana," RMCLAS, Las Cruces, NM, February, 1981. B. "The Mexican-Chicano Disconnection: Attitudes of Mexicans Toward Chicanos," lecture given for The Latin American Institute Faculty Concilium Luncheon, UNM, October 1981.
- i. Bruno Hannemann. A. President of American Association of Teachers of German-NM-Chapter. Chaired meetings of AATG-NM: April 4, 1981 (Sacramento); Oct., 17, 1981 (Albuq.) B. Papers read: "Die Deutschen u. der Humor," April 4, 1981, German Weekend (Sac.), C. "Stress, Frust and Aussteigen;" June 29, 1981, German Summer School, Taos, NM.
- j. Robert Holzapfel. A. Attended meeting of NM AATG. B. Attended a conference on international studies at University of Arizona, Tucson, and made a presentation on intensive language instruction.
- k. Tamara Holzapfel. Read paper co-authored with Dick Gerdes at the annual meeting of the American Association of Teachers of Spanish and Portuguese in Seattle, August 1981.
- l. Robert C. Jespersen. New Mexico Chapter of American Association of Teachers of German, Oct. 1981.
- m. Natasha Kolchevska. A. Professional papers read at: II Soviet American Conference on Russian Language, Chicago, Ill. Sept. 11-13, 1981: B. American Association for the Advancement of Slavic Studies, Asilomar, California Sept. 20-23, 1981. C. Attended: Russian Lit. in Emigration, An International Conference, Los Angeles, May 14-16, 1981.

- n. Enrique E. Lamadrid. I am a member of the Modern Language Association, the American Association of Teachers of Spanish and Portuguese, American Council of Foreign Language Teachers and others. I regularly attend their conventions, serve on committees, and serve as reader of papers on linguistics intended for publication in their official journals.
- o. Byron Lindsey. Papers: "Dostoevsky's Use of Character: The Mysterious Case of Porfiry Petrovič," Rocky Mountain MLA, Boise, Idaho, October 21-23. "Tolstoy's Hadji Murat as Tragic Hero," AATSEEL, NYC, December 28-30. Panel chair: Literature in the Language Classroom, Soviet-American Conference on Russian Language Northwestern Univ., Evanston, Ill. Sept. 9-13.
- p. Patricia Murphy. A. Executive Committee, South Central Society for 18th century studies. B. Chairperson, seminar on "The Writer's View of his Profession," meeting of SCSECS Austin, Texas March 1981.
- q. Marshall R. Nason. Committee on Teaching and Outreach, Consortium of Latin American Studies, Latin American Studies Association.
- r. Peter Karl Pabisch. A. Paper Read: "Hilde Spiels Rückkehr nach Wien: Zur Thematik and sprachlichen Gestaltung eines Spezialzweiges der Exilliteratur," Fifth Annual Symposium on German and Austrian Exile Literature, April 3-5, 1981, University of Calif. at Riverside. B. Paper Read: "The Austro-Hungarian Monarchy," 9th German Weekend, Sacramento, New Mexico, April 12, 1981. Annual Meeting of the AATG in New Mexico with high school and college students of German. C. "Später Aufbruch in die Moderne: Zur Überwindung des Syndroms von der 'Entarteten Kunst' in Österreich," Annual Meeting of the AATG (American Association of

- Teachers of German), Denver, November 27, 1981. D. Papers read: "Divided Literary Concepts in Recent Lyrics from the Austrian Camp: Jandl versus Fried," "National Meeting of the Modern Language Assoc., New York, NY., December 28, 1981.
- s. José R. Reyna. A. Latin American Popular Culture Assoc. Conf. Las Cruces, El Paso, Juarez. "The Evolution of Chicano Music." April, 1981. B. Attended Conf. of National Assoc. of Chicano Studies, Riverside Calif. April, 1981. C. Moderator-Panel on Chicano Folklore, UNM, sponsored by La Mesa Chicana, April, 1981. D. Workshop leader-Resiembra Workshop Series, UN Humanities Council, Española, Oct., 1981.
- t. Diana Robin. A. "Patronage among the Humanists" read as part of the Modern and Classical Languages Collegua Series - December, 1981. "Francesco Filelfo and the Milanese Aristocracy: partonage in the Ducal Court". I have been invited to give rhis paper at the Central Renaissance Conference in Bloomington, Indiana in April 1983.
- u. Alfred Rodríguez. "El Hércules de López de Zárate: una posible fuente de Los tres mayores prodigios de Calderón," paper read at First International Calderón de la Barca Congress, Madrid, June 9, 1981. With Clark Colahan.
- v. Claude-Marie Senninger. Guest lecturer at San Diego State Univ. and at the University of Oklahoma at Norman. Executive council of the AATF meeting at Thanksgiving (Cincinnati).
- w. Jon M. Tolman. "Brazil's New Fiction" lecture at MLA Annual Convention, New York City, December 28, 1981. Modern Language Association, Section Chief of Luso-Brazilian Bibliography of MLA

Bibliography.

- x. Jack E. Tomlins. Paper read. "Character and Structure in Almeida Faria's A Paixao. Second Louisiana Conference on Hispanic Languages and Literatures, New Orleans (Tulane), February 26-28, 1981. To be published in Acta, 1982. Paper read. "Two Modernist Andrades in 1931: The Perspective Fifty Years Later." Colloquium on Carlos Drummond de Andrade and His Generation, University of California, Santa Barbara, April 24-25, 1981. To be published in Acta, 1982. Paper read: "Almeida Faria's Trilogy: Literature and Society." Portuguese Interest Section, Annual Convention of American Association of Teachers of Spanish and Portuguese, Seattle- August 11-15, 1981. To be published 1982, or 1983, depending on publication schedule. Paper read: "Mário de Andrade's Further Investigations of the Vanguard: the Losango cáqui." South Central Modern Language Association, Austin, Texas (host: University of Texas), October 22-24, 1981. Elected secretary of next year's section, then presiding officer following year. Attended annual convention of Modern Language Association, New York, December 26-30, 1981.
- y. Sabine R. Ulibarrí. Lecture at University of Utah; Lecture to Air Forces at Ogden, Utah; Keynote speaker to Texas Association of Bilingual Education, El Paso, Texas.
7. Other professional activities.
- a. John J. Bergen. Consultant for the Department of Spanish and Portuguese, University of California at Santa Barbara in the tenure decision of Professor Mary Gay Doman. Consultant for the City of Albuquerque in administering Foreign Service Institute examinations to ten officers of the Albuquerque Police Department, December 1981.

- Consultant for the UNM College Enrichment Program, Summer 1981.
- b. Garland D. Bills. Evaluator of graduate program of Department of Linguistics, University of Texas-El Paso, February 1981. Evaluator of abstracts of papers for Conference on El Español en los Estados Unidos, University of Illinois-Chicago Circle, October 1981. Editor Correo de Lingüística Andina (formerly Andean Linguistics Newsletter). Evaluator of research proposals submitted to National Endowment for the Humanities (3), National Science Foundation, Fulbright, and Guggenheim Foundation. Referee for manuscripts submitted to Modern Language Journal (2), Latin American Research Review, and UNM Press. Outside evaluator in 4 tenure/promotion decisions (University of Louisville, Northern Illinois University, University of California-Santa Barbara, and New Mexico State University).
- c. Truett Book. Coordinator French Weekend in Glorieta, 200 participants. Coordinator Intensive French (Flash French) UNM. Coordinator Distribution of Prizes, May 1981, French Section, UNM. Coordinator French booth, International Festival, UNM.
- d. Angel González. "Pregón de Fiestas", a paper read in City Hall Gijón, Spain, August 1981. Member on the judging panel that granted the Premio Principe de Asturias, a major arts prize offered in Spain (Oviedo, June 1981).
- e. Erlinda Gonzales-Berry. Lectures at La Universidad Autónoma Metropolitana Ixtapalapa, Mexico City, March 1981: "La Literatura Chicana"; "Reflejo de su Realidad," and "La Mujer Chicana" Interview; "El español en Nuevo México," on Raíces, KUNM Radio Station, April 1981. Participant in El Poeta y el Pueblo, poetry readings in New Mexico communities, Spring 1981.

- f. Bruno Hannemann. Arranging dialogue between German Swiss and New Mexico Writers under the auspices of the Swiss National Radio Network, Bern. Producer: Henryk Rhyn, Bern.
- g. Robert Holzapfel. Made a tour of universities in Arizona, (Tucson, Phoenix, Flagstaff,) where I interviewed prospective teachers and students for the Taos German Summer School.
- h. Tamara Holzapfel. Associate Editor of the Latin American Research Review.
- i. Robert C. Jespersen. German Weekend, Sacramento, NM: Seminar: The German Political Scene.
- j. Natasha Kolchevska. Lecture on "Cinematic Technique in Andrei Rublev," International Center, January, 1981. Lecture on Socio-cultural Approach to Third Year Language Teaching," Junior Faculty Lecture Series (in Dept. of Mod. and Class. Lang.) Sept. 2, 1981.
- k. Enrique E. Lamadrid. Because of coronary problems, on doctor's orders, I have had to curtail my activities in this area as well as my travel.
- l. Byron Lindsey. Academic Coordinator, American Council of Teachers of Russian, Pushkin Institute program, Moscow; Member, Board of Directors, ACTR; President, New Mexico-El Paso Chapter, American Assoc. of Teachers of E. European Languages; Director, Russian Workshop, Taos, May 21-31; Committee on UNM visit of Alberto Moravia.
- m. Patricia Murphy. Co-editor of festschrift for H. Monod-Cassidy (presently reading manuscripts).
- n. Marshall R. Nason. Panel Moderator: "Should the U.S. Normalize Relations with Cuba," April 27, 1981; Panelist: "The Significance

- of the Cuban Revolution", April 27, 1981; Panelist: "What is the Fate of Central America?" New Mexico Consortium on Latin American Studies, December 5, 1981; Master of Ceremonies and opening speaker, Maxwell Museum Exhibit, 3 opening ceremonies. Nov. 15 and 16, 1981.
- o. Peter K. Pabisch. Member of the Long Range Planning Committee. Co-director, The German Summer School 1981 Co-sponsor, The German Weekend 1981.
 - p. Diana Robin. Committee to re-institute the language requirement, Modern and Classical Languages Department, Fall 1981. European Studies Committee, Fall 1981. Classical Studies Committee, Fall 1981. MCL Department colloquia series, Chairman and organizer, Spring-Fall 1981. Alberto Moravia lecture and visit to UNM, co-chairman, Spring 1981.
 - q. Alfred Rodríguez. President of Phi Beta Kappa, Spring Semester. Editor, MacCurdy Homage Volume.
 - r. Claude-Marie Senninger. Academic Freedom and Tenure Committee; head of French section; Co-director of the French Summer School of New Mexico.
 - s. Warren S. Smith, Jr.. Member, Admissions and Registration Committee and subcommittee on Falsification of Records.
 - t. Jon M. Tolman. Faculty Senate, Spring 1981. Library Subcommittee Chairman, Latin American Institute. Appointed co-director effective Fall 1982 of Ibero-American Studies Program. Task Force for grants Brazilian Summer Institute (approval).
 - u. Jack Edwards Tomlins. Graduate and Undergraduate Advisor, Portuguese; Arts and Science Graduate Committee (third year); Faculty Senate Committee on Curricula.

- v. Sabine R. Ulibarrí. Department Chairman. Graduate and Undergraduate Advisor.
 - w. Julian E. White. Continuation of previous year activities.
9. Public Service.
- a. Truett Book. Neighborhood Coordinator for Heart Fund, Cancer.
 - b. Pelayo H. Fernandez. Member of Gijón Sister City Association.
 - c. Dick C. Gerdes. Advisor, Community Education Program, Montezuma School (1981-82).
 - d. Robert Holzapfel. New Mexico Wilderness Study Committee.
 - e. Tamara Holzapfel. Gave an address at the annual meeting of the Latin American Round Table that met in Albuquerque, April 1981.
 - f. Enrique E. Lamadrid. Patron of arts and regularly support local as well as national organizations such as; the Santa Fe Opera, the New Mexico Symphony, the Metropolitan Opera, etc.
 - g. Byron Lindsey. Member, Alliance Française; Polish-American Society; Sierra Club; active in helping Soviet emigres settling in Albuquerque and Soviet faculty exchangees in residence at UNM and NM Tech (Socorro); liaison with public and private schools in New Mexico; general community consultant on Russian affairs.
 - h. Marshall R. Nason. Foster Parents Plan, Colombia.
 - i. Claude-Marie Senninger. President Alliance Française d'Albuquerque; Honorary Consul of France; French for Children.
 - j. Jon M. Tolman. Trustee of Amigos de las Américas; Member of Board of Directors, Albuquerque Chapter of Amigos de las Américas.
 - k. Jack Edward Tomlins. Confirmation committee, Annunciation Church; Cub Scouts.

German Section

I. General Information

A. Significant Achievements.

1. Departmental Organization: Language Section Coordinators:
Robert Jespersen (German) Professor George Peters has agreed to become Associate Chairman.
2. New and Continuing Programs.

c. German Section

- 1) The 7th annual session of The German Summer School of New Mexico is planned for June 11 through July 15 in in the Taos Ski Valley. Over 80 students from around the country will attend, making this session the largest. Distinguished visiting faculty included: Victor Lange (Princeton), Hans Weder (Wuppertal, Germany), Manfred Heid (Goethehaus, New York) and Walter Picard (Bundestag, Bonn).
- 2) The tenth annual German Weekend was held in Sacramento, New Mexico. Thirty Students from UNM participated. Eleven students from our "Drama Workshop" course presented a series of one-act sketches. Professors Hantemann, Holzappel, Jespersen and Pabisch presented mini-seminars.
- 3) For the third year over 20 UNM German students took the official Goethe examination "Zertifikat Deutsch als

Fremdsprache" with outstanding results.

- 4) A "Drama Workshop" was introduced for the first time. Eleven students participated in the workshop which culminated in two public performances, one on the UNM campus and one at the German Weekend. This successful course will be continued next year.
- 5) Three UNM students received \$500 Scholarships from the German Academic Exchange Service (DAAD) for outstanding work in German Studies.

3. Cultural, Professional and Social Activities

c. German Section

- 1) The first Austrian Workshop under the supervision of Professor Pabisch was held April 29 through May 3 and was dedicated this year to the late John Tatschl. Guest participants included Peter Moser, Austrian Consul General, Los Angeles; Lanny D. Messersmith, Honorary German Consul; Professor Jurgen Koppensteiner, University of Northern Iowa and Herbert Lederer, Actor, Vienna. Participating from UNM were: Dean F. Chris Garcia, Professors Lothar Winter, Nicolaas Moolenijzer, Bruno Hannemann, and Douglas George. The Seraphin Trio, Marianne Barrett, Arthur Barnett and Kurt Frederick performed at a special musical evening.
- 2) The annual AATG meeting was held in October at the home of Professor Bruno Hannemann, president of the New Mexico Chapter with over 20 high school and university teachers from around the state in attendance.

The Report of the Department of Philosophy
July 1, 1981 - June 30, 1982
George Frederick Schueler, Acting Chairman

I. General Departmental Information

A. Significant achievements during the academic year:

During the 81/82 academic year the Philosophy Department continued to work on improving the quality of its course offerings, especially at the undergraduate level. We added two courses at the '200' level: Contemporary Moral Issues and Professional Ethics. We held a year-long series of informal 'teaching colloquia' with both faculty and TA's, which included discussions of teaching techniques, the making and viewing of TV tapes of some classes, and the like. We established a structured program of faculty teaching advisors for TA's with the idea that these advisors will both help TA's with readings, testing methods, etc. and that they will be responsible for evaluating TA performance. The department also began a systematic program of encouraging promising lower division students to pursue at least some upper division studies in philosophy. Whether as a result of these efforts or merely coincidentally, enrollment in philosophy courses during the Spring Semester showed a significant increase for the first time in many years.

During the year the department sponsored lectures by two distinguished philosophers. On November 6, 1981 David Pears, who is a fellow of Christ Church, Oxford and Visiting Professor at UCLA spoke on "Philosophical and Psychological Explanations of Irrational Actions." On March 5, 1982 Phillippa Foot who is fellow of the Center for Advanced Study in the Behavioral Sciences at Stanford spoke on "Moral Realism." A planned third lecture, by Derek Parfit of All Souls College, Oxford and the University of Colorado, had to be cancelled for lack of travel funds.

Due to the efforts of Professor Andrew Burgess the department acquired this year both a 'desk top' computer and a terminal which will be linked to the Computing Center. The desk top computer, a Terak, is used in conjunction with the Religious Studies Program to teach Biblical Greek (in a course offered through the Modern and Classical Languages department). Biblical Greek is an important prerequisite for serious study in many areas of Religious Studies and this computer is used by students about sixty hours each week. The terminal, a rebuilt TI model of a few years ago, will be used at first by Professor Burgess to aid in analyzing some Danish texts of Kierkegaard. In the future the department hopes to use this terminal for similar work on the writings of other philosophers. It might also prove possible to use the University's computers in at least part of the teaching of lower division symbolic logic courses.

B. Significant plans and recommendations for the near future: For the 82/83 academic year Professor Hanna Buczynska-Garewicz, who is currently at Harvard, will be Visiting Distinguished Professor. The department plans to invite Rom Harre' of Oxford University to speak in October of 1982. We also plan to introduce a new course, 300 level, on Latin American Liberation Theology to be taught by Professor Matthieu Casalis. This course will be 'cross listed' in both Religious Studies and the Latin American Institute. Beginning in Fall, 82/83 Professor Fred G. Sturm will become Chairman of the Philosophy Department and Professor G. F. Schueler will become Graduate Student Advisor.

C. Appointments to Staff:

- (1) Hanna Buczynska-Garewicz - Visiting Distinguished Professor for 1982/83 (August 1982 - May 1983)
- (2) William Boos Ph.D. (Philosophy, Chicago), Ph.D. (Math, Wisconsin) - Assistant Professor (Starting August, 1982).

D. Separations from Staff:

Donald Riggs - Visiting Assistant Professor, effective at the end of the summer session. Dr. Riggs was here on a one-year contract.

II. Composite Information from Biographical Supplements

1. Advanced study.

None

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

Burgess: Travel to Minneapolis in July and December to learn about teaching of New Testament Greek by computer.

Casalis: LWOP (spring) spent teaching philosophy in Spanish at the Universidad Politecnica de Nicaragua, Managua, Nicaragua.

O'Neil: Two trips back to Houston for Cancer checkup.

Schmidt: Travel and study in Japan, especially Soto Zen and Shinto, April 1981 - August 1981.

Schueler: Participant in the Am. Phil. Assoc. Teaching Workshop at Williams College, Williamstown, Mass. June 29 - July 24, 1981.

Sturm: Sabbatical beginning 15 May. Travel 15-31 June - Great Britian; 31 Nov. - 12 Dec. - Greece, Turkey, Egypt. Research: 1 June - 30 Nov. - Portugal; 13-31 Dec. - Macau

Tuttle: On sabbatical for Fall Term, 1981.

3. New scholastic honors, fellowships, etc.

Schueler: Fellowship for APA Teaching Workshop listed in #2 above.

Sturm: Calouste Gulbenkian Foundation fellowship for research at the University of Coimbra (June - November 1981)

4. Publications.

Burgess: Review of Energy Ethics: A Christian Response, ed. Dieter Hessel, in Environmental Ethics, 3 (Spring, 1981), pp. 189-91. Article: "Brentano's Evolving God," "The New Scholasticism, 55 (Autumn, 1981), pp. 438-49.

Casalis: "Semiotica E Ideologia", CUADERNOS DE FILOSOFIA LATINOAMERICANA V (Bogota, Colombia) pp. 12-23; Review of D.T.Suzuki, The Awakening of Zen, CHOICE, January 1981.

5. Riggs: "Mill's Loose Ends", a paper completed.
 "Proof of Desirability", paper completed
 (read at U. of Minn., Duluth).
 "Linguistics Neutralized?", paper in progress.
 "Reasoning and Deduction", paper in progress.
- Schmidt: Continued work on revision of a new book The Aesthetics of Existing and early draft of Philosophical Autobiography.
- Schueler: I am still working on the book manuscript on moral skepticism, as well as a paper on Akrasia. I just finished a paper titled "How Not to Reply to a Moral Skeptic."
- Sturm: 1. Basic data gathered for an annotated bibliography of 281 Latin manuscripts of the 17th and 18th centuries dealing with philosophy in the University of Coimbra library. 2. Initial work begun on commentary on Hsün-tzu's classic work. 3. Chapter on "Philosophy & the Latin American Intellectual Tradition" written for cooperative volume (Interdisciplinary Approach to Latin American studies). 4. First draft of English translation of book by Miguel Reale, Experiencia e Cultura, completed.
- Tuttle: Book in progress: Historical Man: Historicity and Method in the Thought of Dilthey, Heidegger and Ortega.
6. Activities in learned and professional societies.
- Burgess: Paper delivered at April meeting of Rocky Mountain (AAR/SBL) American Academy of Religion/Society of Biblical Literature convention in Denver, entitled "Franz Brentano and Hermann Schell: Rationalism and Roman Catholic Modernism." Paper delivered at national convention of AAR/SBL in December at San Francisco, entitled Wittgenstein, Color Blindness, and the Ontological Proof."
- Goodman: Read "Cavell and the Problem of Other Minds" at Southwestern Philosophical Association meetings, San Marcos Texas, November 1981.
- Lee: "The Idea of Progress in Modern Histories of Philosophy" read at Mountain-Plains Philosophy Conference in Durango, Colo., October 81.

6. McDermott: Panel Chairperson - The A. Priori in Indian Philosophy - Western Division APA, Portland, Oregon, March
Paper presented - G*POP - in conjunction with GOGS meeting - Washington, D.C.
Attended Land Grants College Meetings - Dec., 1981 (Washington), Attended WAGS-March, 1981 San Francisco.
- O'Neil: Served as invited referee for the Southwestern Journal of Philosophy
- Schueler: See #2 above.
- Sturm: 1. Attended Southwest Council on Latin American Studies (Scolas) conference, San Antonio, TX, 5-7 March; read paper on the philosophy of Andres Bello. 2. President, Society of Latin American Studies (SILAT). 3. Director, American Assoc. for Chinese Studies. 4. Director, Hispanic Renaissance Studies Assn. 5. Member, Program Committee for 10th Interamerican Congress of Philosophy.
- Tuttle: Paper read: "Ortega's Vitalism in Relation to Aspects of Lebensphilosophie and Phenomenology." paper delivered at Ft. Worth, Texas, April 11, 1981 New Mexico-West Texas Phil. Society.
7. Other professional activities.
- Burgess: Talk on "The Parables of Kierkegaard" at St. Paul's Lutheran Church.
Talk on "Zoroastrianism" at Central United Methodist Church.
Talk on "Christianity and Space Exploration" at St. Paul's Lutheran Church.
- Casalis: Interview on Nicaragua, Albuquerque Journal August 25.
Interview on KZIA about Nicaragua, November.
Talk on "Marxism and Liberation Theology in Latin America", Theology for Lunch.
Led a workshop at the Religious Peace Conference, November.
- Lee: Referee for article for Environmental Ethics

7. O'Neil: Presented an invited talk on Aristotle to the senior humanities classes at the Albuquerque Academy.
- Schmidt: Resigned from Board of Directors of Jemez Bodhi Mandala Zen Center
- Schueler: I've given a talk titled "What is philosophy and why should anyone care about it anyway?" on various occasions to various groups, e.g. UNM 'Parents Day,' to a 'senior citizen' group off campus, etc.
- Sturm: 1. 17 Feb.: Rio Rancho Rotary Club - "Reinstatement of Confucius in Communist China" 2. 12 Mar.: La Segunda Iglesia Congregacional - guest sermon 3. 14 May: a sorority (whose Greek name I forget) of university graduates - "A Philosophical Interpretation of Artistic Experience"
8. Non-teaching University service.
- Burgess: Chair, Religious Studies Program; member, Faculty Senate Library Committee; member, Latin American Institute Sub-committee on Library; member, Asian Studies Committee; member, Classical Studies Committee.
- Goodman: Graduate Advisor, Philosophy Dept. Member, Academic Freedom and Tenure Committee, Student Radio Board; Faculty Senator; Faculty Advisor, Student Fencing Club.
- Lee: Faculty member of Long Range Planning Committee. Departmental Undergraduate Advisor.
- McDermott: Dean of Graduate Studies--Member of many University Committees in that capacity. Initiated Graduate program reviews.
- O'Neil: Member, Undergraduate Academic Affairs Committee; Chair, Dept. Graduate Advisory Committee.
- Schmidt: Member of Fulbright Evaluation Committee at UNM. Member of Arts & Sciences Promotion Committee.
- Schueler: Acting Chairman of the Philosophy Department, 81/82.

8. Sturm: Jan.-May: 1. Member, University Press Com.; 2. Member, Univ.Com. on Asian Studies; 3. Chair, A & S Dean's Advisory Com. on Latin Amer. Studies; 4. Member, Lat.Am.Inst.Policy Com.; 5. A & S Dean's Advisory Com. on Promotion; 6. Chair, Interdiscipl.Com.on "Global 2000" Report Colloquia.
- Tuttle: Chairman, Dept. of Philosophy 1976 to present European Studies Committee, Faculty Senate, 1981. Chairman, 3 Ph.D. Dissertations.
9. Public service.
- Burgess: Member, New Mexico Task Force on Religion and Public Education.
- O'Neil: Backup lector at own church.
- Sturm: Jan.-May:1. Indian Pueblo Cultural Center (a) Director, Research Center for Pueblo Indian Studies (b) Administrator, NEH Youth Activities Grant Project (c) Chair, Education Com. of Friends of IPCC 9d) IPCC Museum Docent; 2. La Segunda Iglesia Congregacional-Director of Music.
10. Personal Information.
- Lee: Gave a talk in class at Albuquerque H.S. (without stipend)

7. O'Neil: Presented an invited talk on Aristotle to the senior humanities classes at the Albuquerque Academy.
- Schmidt: Resigned from Board of Directors of Jemez Bodhi Mandala Zen Center
- Schueler: I've given a talk titled "What is philosophy and why should anyone care about it anyway?" on various occasions to various groups, e.g. UNM 'Parents Day,' to a 'senior citizen' group off campus, etc.
- Sturm: 1. 17 Feb.: Rio Rancho Rotary Club - "Reinstatement of Confucius in Communist China" 2. 12 Mar.: La Segunda Iglesia Congregacional - guest sermon
3. 14 May: a sorority (whose Greek name I forget) of university graduates - "A Philosophical Interpretation of Artistic Experience"
8. Non-teaching University service.
- Burgess: Chair, Religious Studies Program; member, Faculty Senate Library Committee; member, Latin American Institute Sub-committee on Library; member, Asian Studies Committee; member, Classical Studies Committee.
- Goodman: Graduate Advisor, Philosophy Dept. Member, Academic Freedom and Tenure Committee, Student Radio Board; Faculty Senator; Faculty Advisor, Student Fencing Club.
- Lee: Faculty member of Long Range Planning Committee. Departmental Undergraduate Advisor.
- McDermott: Dean of Graduate Studies--Member of many University Committees in that capacity. Initiated Graduate program reviews.
- O'Neil: Member, Undergraduate Academic Affairs Committee; Chair, Dept. Graduate Advisory Committee.
- Schmidt: Member of Fulbright Evaluation Committee at UNM. Member of Arts & Sciences Promotion Committee.
- Schueler: Acting Chairman of the Philosophy Department, 81/82.

8. **Sturm:** Jan.-May: 1. Member, University Press Com.; 2. Member, Univ.Com. on Asian Studies; 3. Chair, A & S Dean's Advisory Com. on Latin Amer. Studies; 4. Member, Lat.Am.Inst.Policy Com.; 5. A & S Dean's Advisory Com. on Promotion; 6. Chair, Interdiscipl.Com.on "Global 2000" Report Colloquia.
- Tuttle:** Chairman, Dept. of Philosophy 1976 to present European Studies Committee, Faculty Senate, 1981. Chairman, 3 Ph.D. Dissertations.
9. **Public service.**
- Burgess:** Member, New Mexico Task Force on Religion and Public Education.
- O'Neil:** Backup lector at own church.
- Sturm:** Jan.-May:1. Indian Pueblo Cultural Center (a) Director, Research Center for Pueblo Indian Studies (b) Administrator, NEH Youth Activities Grant Project (c) Chair, Education Com. of Friends of IPCC 9d) IPCC Museum Docent; 2. La Segunda Iglesia Congregacional-Director of Music.
10. **Personal Information.**
- Lee:** Gave a talk in class at Albuquerque H.S. (without stipend)

THE REPORT OF THE DEPARTMENT OF PHYSICS AND ASTRONOMY

July 1, 1981 - June 30, 1982

R. Marcus Price — Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year 1981-82

During the academic year 1981-82, thirteen students received degrees in Physics. Six of these were B.S. degrees in Physics. Four students received M.S. degrees in Physics, and one student received the Ph.D. degree in Physics. Two additional students received a minor in Physics. The following tables list the students who received degrees in Physics or Astrophysics.

Students receiving a B.S. Degree in 1981-82

David Appel	Colleen Cafferty
Stuart L. Davis	Steve Elliott
Norman Graf	Koenraad D. Marien
Thomas A. Philpot	Rene Tackett-McCallum (minor)

Students receiving a M.S. Degree in 1981-82

Gary Henson	Kathleen Hood
Sertac Ozenli	Edward Moy

Students receiving a Ph.D. Degree in 1981-82

James A. Lupo

During this year we have continued the development of the Institute for Modern Optics. We added an additional part-time assistant professor in January, and during the year a total of 9 research staff were added. Work continued on the development of a curriculum for a degree program in optical sciences and optical

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engineering to be offered in cooperation with the Department of Electrical and Computer Engineering. This proposal was approved by both of the colleges involved, and we expect to see its approval by the appropriate university committees and administrative offices in the next year. The research support base for the Institute has come largely from outside sources, with the research projects in progress currently funded at an annual level of \$1.2 million. The office of the Associate Provost for Research has also continued to support the development of the Institute.

An additional faculty position in the area of medium-energy physics was filled during the year. The addition of this new faculty member will provide additional support and flexibility to our medium-energy physics group in pursuing experimental programs. Despite lower amounts of federal research support in some subareas of physics, our medium-energy group has enjoyed growing support over the years and is currently involved in the planning or building stage for two substantial and important experiments in particle physics. The more immediate of these two projects is at the CERN facility in Geneva, Switzerland. This effort requires a significant effort on the part of our faculty and staff members. It is the first time that a major project on the CERN facility has been organized and manned primarily by American scientists and demonstrates the wide respect our medium-energy physics group enjoys.

We have expanded the activities of our radio astronomy program with the addition of another postdoctoral fellow during the year. We now have a total of five faculty or staff members who are utilizing the Very Large Array Radio Telescope for major research projects. Additionally, graduate students are being trained in the use of this major facility. Also, in the area of astronomy we have continued the upgrade of the Capilla Peak Observatory. During the year the high sensitivity photometer was converted to computer control to allow for more efficient data acquisition and on-line processing.

We have continued the increase of our introductory physics course support structure. The Physics Tutorial Center continues to provide problem solving skills to our introductory students. We are offering additional sections of problem solving courses to serve students with a diversity of course schedules.

In the area of scheduling we started to offer our intermediate physics sequences, required for undergraduate physics majors, at the rate of one per term, at times after 4:30 in the afternoon. We feel that this will serve the needs of individuals in the community who wish to advance their physics skills but who hold full-time jobs. We also continue to offer the bulk of our optics courses after 4:30 in the afternoon to serve the large optics community in Albuquerque.

Public open nights at the campus observatory continued to be very popular. With the assistance of outside funds we have added an astronomy hotline during the year. This allows members of the

public to call and receive a recorded message concerning notable objects visible in the sky and announcing the weekly program at the observatory. With an increased attendance on a weekly basis and greatly enhanced attendance at several special events (such as the grand alignment viewing) we estimate that we are serving over 6,000 people each year. In spite of this gratifying response to this public program, we continue to have difficulties with interference from lighting from the nearby medical center parking lot and emergency helipad. Also, the limited facilities at the campus observatory mean that we can serve only about 100 students each semester in our undergraduate astronomy laboratory. We estimate that the demand for this course would at least double if we could provide the adequate facilities and teaching assistant support. One of our high priority requests to the administration continues to be the relocation and replacement of the campus observatory.

Symposium #97 of the International Astronomical Union was held on the university campus in August of 1981. This conference, concerning extragalactic radio sources, was co-hosted by the department and the National Radio Astronomy Observatory. Several of our faculty members presented papers at the conference. The meeting attracted approximately 200 astronomers from all over the world and provided a special opportunity for UNM astronomers to meet with their professional colleagues and also to show the degree of support for our local astrophysics programs.

The radio astronomy group established a joint project with Sandia National Laboratories involving image processing and presentation of VLA data. Using equipment purchased with the state science equipment bond money, we were able to provide equipment to use with a Sandia computer and image processing system. The combined equipment now serves well as a prototype for a VLA data reduction of the type that we hope ultimately to have available at UNM.

Sponsored research in the department exceeded \$1,742,700 during the year. During this period funds from a total of 27 research grants or contracts were provided to the department. Seventeen faculty members and twenty research staff and associates are working actively on research sponsored by outside agencies. The results of these research projects and the publications resulting from them are detailed in later sections of the report.

We are continuing our efforts to improve the effectiveness of our department's administrative support and governance. We have continued our department advisory committee comprised of three members of the department who meet regularly with the chairman to advise on matters of importance to the department. Meeting with the office staff and with the technical staff have provided an opportunity to identify and discuss procedures to improve our operations. As a result of ongoing evaluation of office procedures, we identified our needs in the area of word processing and have installed the equipment necessary to implement word

processing and computerized filing and record keeping within our offices. The continued research support in the form of science and engineering equipment bond funds allow us to continue our upgrading of research equipment. With this year's funds we concentrated on providing equipment in the following areas: computer terminals for faculty and student use, research equipment in the area of atomic physics for installation at our Los Alamos atomic beam experiment, detectors for medium-energy particle experiments, and general support for experiments in applied optics.

A departmental retreat was held in May on the campus of St. John's College in Santa Fe. During this day-long meeting we were able to address many issues concerning the department's development and planning that are not possible to address in shorter faculty meetings during the year. A large majority of the faculty attended the meeting and were pleased with the procedure and outcome. We plan to make this a regular feature of our yearly schedule.

The weekly colloquium series sponsored by the department continued with 45 speakers presenting talks. The Distinguished Lecture Series sponsored jointly by the University and Sandia Laboratories provided two public talks. In September Dr. Peter Van Nieuwenhuizen from the State University of New York at Stony Brook spoke at Regener Hall on "Supergravity and Unification of Fundamental Forces. Dr. Van Nieuwenhuizen also gave a colloquium "Introduction to Supergravity" and a theoretical seminar

"Supergravity and Grand Unification." The second Distinguished Lecture was presented April 22, 1982, by Dr. Martin L. Perl. Dr. Perl's talk, "Very Simple Particles and Very High Energies" was also given at Regener Hall. A colloquium, "A New Method for Searching for Fractional Charge in Macroscopic Matter" was presented during Dr. Perl's visit.

The department enjoyed a great increase in the number of gifts that it received during the last year. Several pieces of instructional equipment and numerous volumes of valuable research journals were contributed to the department in addition to several several cash contributions. We are continuing our efforts to solicit more outside support for our public and research programs.

The department played an active role in the Technology Showcase held in Albuquerque in October of 1981. Faculty members contributed to the success of the conference with the presentation of technical papers and exhibits for the showcase and serving on organizing committees for the various areas represented in the showcase.

B. Significant Plans and Recommendations for the Near Future

A major need of the department continues to be a new campus observatory. The student demand for this laboratory continues to outstrip our ability to serve the students by at least a factor of two. Additionally, during the past year the installation of an emergency heliport just to the east of the observatory has further degraded our night skies because of the high levels of illumination in the vicinity.

We plan to continue to upgrade our facilities at the Capilla Peak Observatory. We hope to provide a computer telescope control for the drive systems in the near future. Additionally, we are continuing the development of instrumentation for the focal plane of the Capilla Peak instrument.

In planning for the future, we have identified several areas of excellence where we hope to expand our research and instructional programs. The areas thus far identified for allocation of additional resources are astrophysics, theoretical physics, and cosmic ray physics. We have stopped cosmic ray observations at the Volcano Ranch site and expect to remove the experimental equipment from the site within the coming year. The purchase of this land by the City of Albuquerque with attendant plans to develop an airport in the area means that it will not be possible to continue to use this site as a cosmic ray observatory. This represents a significant loss in our capability to work in the area of high-energy cosmic rays, and we are seeking alternate ways to continue our involvement in this area of research. This involvement may well take the form of collaboration with other universities in developing a major site for cosmic ray experimentation at some point at some other site within the United States (but probably not close to Albuquerque, unfortunately).

We expect to see continued expansion in the area of modern optics, with the addition of one part-time faculty member in each of the next two academic years. We are continuing to work with industry in establishing co-op and research programs that will

allow unique opportunities for our faculty and students. At the moment our limited space does not allow us to add all of the additional research staff that could be supported by available and potential funding. We expect to begin a renovation of our basement space to allow for optics experiments in that area. However, this expansion program may have to be curtailed because of the shortage of funds available for space renovations.

The department allowance for materials and services continues to be essentially level funded. We are substantially underfunded in this area, and adequate support of our academic and research activities grows more difficult. This year we were reduced to asking students to pay xeroxing charges for the homework problem solutions that we provide in class. Our junior and senior laboratories continue to have no technical support, leaving the entire load of equipment setup, maintenance, and trouble shooting to the faculty members. Additionally, we have no one to supervise the maintenance and repair of our astronomy lab equipment. During the past year we experienced an overall growth of 17.6 percent in the number of student credit hours we served in our undergraduate courses and 35.7 percent increase in our graduate courses. Although we are gratified at the increases in both of these areas and the prospect of additional majors and graduate students, we are faced with the problem of providing quality education for these students with inadequate graduate teaching assistance and faculty with heavy academic loads. We continue

to seek methods to allow us to serve our students more efficiently and to allow our faculty to spend their time in the most productive manner.

C. New Additions

Dr. Bernd Bassalleck joined the faculty in January as an assistant professor. Professor Bassalleck's appointment filled the vacancy left by the retirement of Professor John Green at the end of academic 1981. Dr. John C. Bellum became a research scientist with the department on August 17, 1981 and was appointed to a one-third time assistant professorship and two-thirds research assistant professorship in the Institute for Modern Optics in January. Dr. Kenneth Jungling and Dr. John McNeil also joined the department in January. Both have one-third faculty appointments in the College of Engineering and spend the remaining two-thirds of their time as research associate professors in this department's optics program.

The following research scientists also became members of the department during the year: Dr. George Lawrence, September 1, 1981; Dr. Calvin Barnard, October 15, 1981; Dr. Kai Druhl, January 1, 1982; Dr. Jin Joong Kim, January 15, 1982; Dr. Shofen Fu, February 18, 1982; Dr. James E. Harvey, March 1, 1982, Dr. Roger Hill, April 5, 1982. Additionally several visiting scientists were hosted by the department. Dr. Gyula Bencze from Hungary arrived for a year's visit on September 1. Dr. James Elliott from Los Alamos was here from October 15 until July 1. Dr. Yoshiharu Namba, November, 1981 - December, 1982, and Dr. Kikuo Ujihara,

December, 1981 - September, 1982, both visited from Japan. On January 12, Thomas Balonek joined the department as a postdoctoral fellow. Reina Telles was hired June 22 as a clerical specialist in the department office to replace Deborah Stark.

D. Departures

Hai-Woong Lee, Research Associate, resigned August 31, 1981. Deborah Stark, clerical specialist and technical typist left the office staff on April 26, 1982, and Vilija Avizonis worked as a laboratory assistant from October 19 until June 30.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study

Alan W. Peterson

Attended Aeronomy Seminar at U. of Cincinnati during Winter and Spring quarters

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Harjit S. Ahluwalia

Traveled to attend, participate and give papers at: (a) Annual Spring Meeting of American Geophysical Union at Baltimore on 25-28 May 1981; (b) 17th International Cosmic Ray Conference at Paris (France), on 11-26 July 1981.

Seymour S. Albert

August 81-December 81, Lembaga Instrumentasi Nasional, Republic of Indonesia, Laser Technical Consultant, United Nations; January 82-August 82, Institute of Human Performance Research, The Pennsylvania State University.

Charles L. Beckel

Intergovernmental Personnel Act Assignment Agreement, on detail to the U.S. Arms Control and Disarmament Agency, Washington, DC 20451, from 11 Aug. 1980 to 10 Aug 1981.

Howard C. Bryant

One week in Mexico (Mexico City, Tula and Galindo) April

1981. Many trips to Los Alamos to work on a research project.

Jack O. Burns

Travel to Calgary, Canada, and Washington to attend professional meetings. Numerous observing sessions at VLA radio telescope (near Magdalena, NM). Two trips to Boston for analysis of X-ray data from Einstein Observatory Satellite.

Kevin Cahill

Attended the Second Annual Workshop on Grand Unification at the University of Michigan in April. Gave a lecture on grand unification at N.M.S.U., Las Cruces.

Byron Dieterle

International Conference on High Energy Physics-ICOHEPANS, July, 1981, Versailles, France; visit to CERN, Geneva, Switzerland for Experiment PS 183; LAMPF Users meeting, Los Alamos.

J. D. Finley, III

Travel to Mexico City: Conference on "The Mathematics of the Physical Space-Time," June 10, 11, 12; spent next 1 1/2 weeks there working on problems with J. F. Plebanski at the Centro de IEA del IPN. Travel to Summer Meeting of American Mathematical Society for special conference on "Complex Geometry," August 16-22.

David S. King

Los Alamos National Laboratory-summer (6 weeks) working on astrophysical research and consulting on problems related to pollution transport.

John Linsley

Travel to Italy, to receive Premio Internazionale San Valentino d'Oro (astrophysics), and lecture at University of Rome; to France, to participate in 17th International Cosmic Ray Conference (Paris).

Alan W. Peterson

Sabbatical, University of Cincinnati 1/81 to 10/81, working on theory of Gravity Waves as revealed by OH airglow.

R. Marcus Price

Travel to Kitt Peak National Observatory as visiting astronomer for observations; travel to the Very Large Array radio telescope for observations.

Marlan O. Scully

Taught in two international summer schools. The first entitled "Advances in Laser Spectroscopy" was held in San Miniato, Italy; the second dealing with Quantum Optics and General Relativity was held in Germany during the last two weeks of August.

Derek B. Swinson

Travel to Paris, France, to attend 17th International Cosmic Ray Conference; to Dublin, Ireland (visit to Dean of Arts Science, University College, Dublin); to Belfast, N. Ireland (visit to Physics Department, Queens University, Belfast).

David M. Wolfe

Several trips to Berkeley, UC-Irvine, Michigan State, Fermi Lab, Temple University, U. of Pennsylvania, Brookhaven National Laboratory, CERN for research work.

Michael Zeilik

Travel to Kitt Peak National Observatory (Arizona) and the Very Large Array (New Mexico) for observing projects.

3. New scholastic honors, fellowships, etc.

Harjit S. Ahluwalia

Listed in (a) 14th Edition of American Men Women of Science, (b) 18th Edition of Who's Who in the West, (c) National Directory of Latin Americanists, compiled by Hispanic Division of Library of Congress, (d) Who's Who Among India Immigrants, (e) Who's Who in Technology Today.

Seymour S. Alpert

Presidential Recognition Award from President Davis of UNM for Outreach Program.

Howard C. Bryant

Nominated for Fulbright Fellowship to Innsbruck, Austria, 1982-83.

John Linsley

Premio Internazionale San Valentino d'Oro (astrophysics); awarded fellowship by British National Science Council, to be served at Univ. of Leeds in 1982; awarded lectureship by Ettore Majorana Centre for Scientific Culture, to be served in 1982 at International School of Cosmic-Ray Astrophysics, Erice.

R. Marcus Price

Listed in Who's Who in Technology in the USA.

Marlan O. Scully

Honorary lecturer at the University of Colorado Cultural Program Project, March 1; Key Note Speaker, Laser's 81 Conference (with N. G. Basov, USSR Nobel Laureate) New Orleans, December 1981.

4. Publications

Harjit S. Ahluwalia

"Cosmic Ray Modulation is not Spherically Symmetric," Trans. Am. Geophys. Union, **62**, 348, 1981.

"Some Characteristics of the Eleven Year Variation of Cosmic Rays," 17th Intern. Conf. Cosmic Rays, Paris. Conf. Papers (Commissariat a L'Energie Atomique), **9** in press. Coauthors: J. R. Asbridge, S. J. Bame and R. Zwickl.

"Disappearing Solar Filaments and Cosmic Ray Intensity Variations," 17th ICCR, Paris. Conf. Papers, **2**, in press. Coauthors: A. G. Finci and M. M. Fikani.

"Secular Trends in the Time of Maximum of the Solar Diurnal Variation," 17th ICCR, Paris. Conf. Papers, **2**, in press. Coauthor: J. F. Riker.

"On Barometer Correction for Dallas Neutron Monitor," 17th ICCR, Paris. Conf. Papers, **2**, in press. Coauthor: J. D. Beason.

"Cosmic Ray Anistropy, Solar Magnetism, and Heliomagnetosphers." A Final Report submitted to NSF upon completion of work performed under Grant No. ATM 78-10727.

Seymour S. Alpert

"A Linear Fick's Law Calorimeter." Accepted by the American Journal of Physics.

"Optimal Time Response to Food Shortage and the Two-Reservoir Energy Model." Submitted to the journal, Applied Systems Analysis.

"Thermoregulation in the Zucker Fatty Rat in Response to Pyrogen." (Co-authors: W. F. Woodside and P. D. Bryant). Submitted to Pflugers Archives: The European Journal of Physiology.

"An Inexpensive Rotating Connector for Chronic Intra gastric Infusion." (Co-authors: W. F. Woodside and P. D. Bryant). Submitted to Physiology and Behavior.

Charles L. Beckel

"Rational fraction representation of diatomic vibrational potentials. V. The 3d state of H₂⁺," Journal of Chemical Physics Vol **75**, 2018 (1981). Co-authors: S. A. Sonleitner, A. J. Colucci, and E. R. Scaggs.

"Nonseismic Technology for Detection and Characterization of Underground Nuclear Explosions," U.S. Arms Control and Disarmament Agency, Washington, DC, 20451, November 1981. Co-author: R. J. Morrow.

"Theoretical Energy Gradient Study of Ribose and Deoxyribose Analogs," in Biomolecular Structure, Conformation, Function and Evolution, Vol.2, Editor R. Srinivasan, pgs. 305-309, Pergamon Press Ltd., Oxford 1981. Co-author: R. Hashemi-Attar.)

Howard C. Bryant

"Photodetachment Spectroscopy of the H Ion," Invited talk at U.S.-Mexican Joint Seminar on the Atomic Physics of Negative Ions, presented by H. C. Bryant, April 1-4, 1981, La Mansion, Galindo, Mexico. Co-authors: K. B. Butterfield, D. A. Clark, J. B. Donahue, P. A. M. Gram, R. W. Ham, W. W. Smith. To be published in Conference Proceedings.

"Atomic Physics with Relativistic Beams," Atomic Physics Program Contractors' Workshop, U.S. DOE, Argonne, IL, April 1-2, 1981. Presented by D. A. Clark. Co-author: H. C. Bryant.

Book Review: Rainbows, Halos, and Glories, by Robert Greenler, Cambridge UP, pp. 195. L15, New Scientist, 14 May 1981, p.429.

"What Happens When a Solar Pond Boils," International Solar Energy Society, "Solar Rising" Conference Proceedings, Philadelphia, May 1981. Presented by Daniel Weeks.

"Recent Progress on Two-Electron Photo-Detachment of H-," Invited talk at "Electron Scattering from Atoms and Atomic Ions" (a Satellite Symposium of the 1981 ICPEAC), NASA Goddard Space Flight Center, Greenbelt, MD 20771, July 23-24, 1981, presented by C. A. Frost. Co-authors: H. C. Bryant, K. B. Butterfield, D. A. Clark, J. B. Dohahue, P. A. M. Gram, R. W. Hamm, W. W. Smith.

Jack O. Burns

"Radio Emission in the Directions of CD and Related Galaxies in Poor Clusters. III. VLA Observations at 20-cm," 1989, J. O. Burns, R. A. White and D. H. Hough, Astron. J., 86, 1.

"The Structure and Environment of the Wide-Angle Tailed Radio Galaxy 1919+479," 1981, J. O. Burns, M.N.R.A.S., 195, 523.

"3C129 Closeup," 1981, L. Rudnick and J. O. Burns, Ap. J. (Letters), 246, L69.

"Globular Cluster Winds with Central Accretion by a Massive Compact Object or Subcluster," 1981, R. H. Durisen and J. O. Burns, M.N.R.A.S., 192, 535.

"X-Ray Emission Around Radio Sources in Clusters of Galaxies: A Possible Physical Link Between Environment and Nonthermal Radio Emission," 1981, J. O. Burns, S. A. Gregory, and G. D. Holman, Ap.J., Nov. 1981.

"A Search for Neutral Hydrogen in D and cD Galaxies," 1981, J. O. Burns, R. A. White, and M. P. Haynes, Astron. J., 86, 1120.

"Redshifts, Optical Properties, and Refinements in the Radio Parameters of 4C Radio Galaxies in Non-Abell Zwicky Clusters," 1981, S. A. Gregory and J. O. Burns, Ap.J., in press (April 1982).

"Detection of Radio Emission from the Jet in Centaurus-A," 1981, E. J. Schreier, J. O. Burns, and E. Feigelson, Ap. J. (Letters), Dec. 1981.

"Multifrequency VLA Observations of 3C388: Evidence for an Intermittent Jet," 1981, J. O. Burns, W. Christiansen, D. Hough, Ap. J., June 1982.

"What Bends Wide-Angle Tailed Radio Sources," 1981, J. O. Burns, J. A. Eilek, and F. N. Owen, I.A.U. Symposium #97 Proceedings, in press.

"High-Resolution VLA Observations of Quasars with Distorted Radio Structures," 1981, J. Stocke, W. Christiansen, and J. O. Burns, I.A.U. Symposium #97 Proceedings, in press.

Kevin Cahill

"Statistical Enhancement of Gauge Invariance," with P. Denes, Lett. Nuovo Cimento.

"Unitary Gauge Theories of Noncompact Groups," with S. Ozenli, submitted to the Physical Review.

Book Review, Recent Developments in Gauge Theories, for Physics Today, May 1981, pp. 83-4.

Colston Chandler

"The Coulomb Problem. A Selective Review," Nuclear Physics A353, 129c-142c (1981).

"Addendum: Spurious Solutions to N-Particle Scattering Equations," with I. S. Sloan, Nuclear Physics A361 (1981) 521-522.

Weng W. Chow

Correction to "Multioscillator Laser Gyros," IEEE JQE 17, 433 (March 81).

On the Laser Gyro Quantum Limit, submitted for publication.

Gain Dependent Dispersion in an XEF Laser, submitted for publication.

Byron Dieterle

"Measurement of charged pion production from neutron-proton collisions at 790 McV," Physical Review D24, 1736 (81).

"Neutron-proton scattering cross-sections between 200 and 500 MeV," submitted to Nuclear Physics.

J. D. Finley, III

"All algebraically-degenerate H spaces, via HH spaces," with J. F. Plebanski, J. Math. Phys. Vol. 22, p. 667-674 (1981).

"Implications of the EKH Electrodynamical Lagrangian," with P. Denes, Physics Letters, Vol. 85A, p. 1-2 (19981).

Several reviews in Mathematical Reviews. Two preprints currently accepted.

McAllister H. Bull, Jr.

"A Modest Proposal for Solving One Aspect of the Engineering Manpower Crisis," the Professional Engineer, Spring 1982.

David S. King

"Linear and Nonlinear Studies of BL Herculis Variables," Ap.J., 244, 242, 1981. Coauthors: A. N. Cox and S. W. Hodson.

"The Masses and Pulsations of BL Variables," IAU Coll. 68, Oct. 7-10, 1981, proceedings to be published.

"Application of Atmospheric Transport Models for Complex Terrain," co-author: S. S. Bunker. Submitted to Jour. of Applied Meteorology.

John Linsley

"Very High Energy Cosmic Rays," in Origin of Cosmic Rays, editors G. Setti et al. (Dordrecht, D. Reidel), pp. 53-68 (1981).

"Validity of Scaling to 10 eV and High Energy Cosmic Ray Composition," Phys. Rev. Letters, 46, 459-463 (1981), with A. A. Watson.

"Large Air Showers and the Dust Grain Hypothesis," Proc. 17th Intern. Cosmic Ray Conf. (Paris), 2, 141-144 (1981).

"Methods of Detecting and Identifying Cosmic Neutrinos with Energy 10 eV," *ibid.*, 2, 125-128.

"Satellite Observation of Cosmic Ray Air Showers," *ibid.*, 2, 145-148, with R. Benson.

"Cosmic Ray Mass Composition above 10 eV," *ibid.*, 2, 137-140, with A. A. Watson.

"The Behavior of Hadron-Nucleus Interactions above 10 eV," *ibid.*, 6, 238-241, with A. A. Watson.

Alan W. Peterson

Observations Analysis of the Solar Aureole in the Near Infrared in Workshop Volume Atmospheric Aerosols: Air Formation Optical Properties and Effects Academic Press.

R. Marcus Price

"The Gaseous Filaments in the Northeast Halo Region of NGC 5128," with John Graham. *Astrophysical Journal*, 247 pp. 813-822, August 1, 1981.

"Radio Astronomy and Spectrum Management: the Impact of WARC-79," with Vernon Pankoin. *IEEE Transactions on Electromagnetic Compatibility EMC-23* pp. 308-317, August 1981.

"IR Observations of Nuclei of Galaxies," with Michael Zeilik. *Bulletin of the American Astronomical Society* (abstract) in press.

Emission Line Regions in the Northeast Lobe of Centaurus A. To appear in "Extragalactic Radio Sources" (Proceedings of IAU Symposium #97.) In press.

Marlan O. Scully

"Proposed Test of Metric Gravitations Theories," *Phys. Rev. A*, Oct. 1981 by M. Scully, M. Aubairy and M. Haugan.

"Harmonic Generation in the Free-Electron Laser," by Al-Abawi, Moore, and Scully, Dec. 81 *Phys. Rev. A*.

"A Proposed Two-Photon Correlation Experiment as a Test of Hidden Variables Theories," by M. O. Scully, *Laser Spectroscopy*, Vol. 5, Springer-Verlag.

"The Statistical Mechanical Resolution of a Thermodynamic 'Paradox,'" by C. D. Boley and Marlan O. Scully, *Journ. of Statistical Phys.* Vol. 24, No. 1, 1981, pg. 159.

"Laser Enhancement of Nuclear Decay," by W. Becker, W. H. Louisell, and J. D. McCullen, and M. O. Scully, *Phys. Rev. Lett.* Vol. 47, No. 18, 1981, pg. 1262.

"Theory of time-delayed measurement: Subnatural linewidth and transient dip spectroscopy," by Hai-Woong Lee, Pierre Meystre, and Marlan O. Scully, *Phys. Rev. A*, Vol. 24, No. 4, 1981, pg. 1914.

"Theory of nonlinear absorption in InSb spin-flip laser," by Tsu-Wei Nee and Marlan O. Scully, *J. Apl. Phys.* 52(1), 1981, pg. 102.

James G. Small

"Liquid Level Interferometer," Stephen F. Jacobs and James G. Small, *Applied Optics*, Vol. 20, No. 20, 15 Oct. 81, p. 3508.

Patent disclosure UNM No. 175, Electromagnetic Navigation for the Blind.

Derek B. Swinson

"The Z-component of the Interplanetary Magnetic Field and Cosmic Ray Anisotropies," Derek B. Swinson, Bull. Am. Astron. Soc., 12, p, 812, 1981.

"Extended Periods of Enhanced Solar Diurnal Variation," Derek B. Swinson, Proc. 17th Int. Cos. Ray Conf., Paris, 4, 138-141, 1981.

"Enhanced Cosmic Ray Anisotropies and the Extended Solar Magnetic Field," Derek B. Swinson, Takao Saito and Satoru Mori, J. Geophys. Res., 86, 8845-8851, 1981.

"22-year Variation in the Solar Diurnal Anisotropy of Cosmic Rays," S. Mori, D. B. Swinson, K. Fujimoto and K. Nagashima, Proc. 17th Int. Cos. Ray Conf., Paris, late volumes (in press), 1981.

"Reversal of the Cosmic Ray Density Gradient Perpendicular to the Ecliptic Plane," D. B. Swinson and H. Kannanen, J. Geophys. Res. (in press), 1981.

David M. Wolfe

"Search for Structure in the Low-energy pp Annihilation Cross-section," Justzembski, McFarlane, Schultz, Amsler, Herrmann, and Wolfe, Phys. Rev. D, 23, No. 11, 2784 (1981).

"Measurements of Charged Pion Production from Neutron-proton Collisions at 790 MeV, Thomas, Carlini, Casspakis, Dieterle, Donahue, Leavitt, Rupp, Wolfe, Evans, Glass, Jain, Northcliffe, Bonner, Simmon, Phys. Rev. D, 24, No. 7, 1736 (1981).

Michael Zeilik

"An Expanding Universe Demonstration," American Journal of Physics, accepted 12 August 1981.

Heckert, P., Henson, G., and Smith, P., "Infrared Photometry of Beta Lyrae," Information Bulletin on Variable Stars, #2006, 1981.

Elston, R., Henson, G., and Smith, P., "UBVR Photometry of UV Psc," Information Bulletin on Variable Stars, #2006, 1981.

"An Index to Astronomy Articles in Scientific American (1960-1981)," Mercury, March-April 1981, p. 58.

Heckert, P. A., "Polarimetry from 1-5 Microns of Compact Infrared Sources," Astronomical Journal, July 1981, 86, 1076, 1981.

"A Flexible, Mastery-Oriented Astrophysics Sequence," American Journal of Physics, Sept. 1981, 49, 827, 1981.

Heckert, P. A., "A High-Resolution 2.2 Micron Polarization Map of OH 0739-14," submitted to Monthly Notices of the Royal Astronomical Society, August 1981.

5. Other research projects or creative work in progress or completed during period

Harjit S. Ahluwalia

NSF Grant No. ATM78-10727, \$48,100, "Cosmic Ray Anisotropy, Solar Magnetism, and Heliosphere," 36 months, 1979-81. This grant expired on June 30, 1981. SWRCE Grant, \$11,026, "Models of the Heliosphere," 24 months, 1980-82. Three unsponsored research projects are in progress. Several publications have come out of them. Four unsuccessful Research Proposals; one to NSF, one to Research Allocation Committee of UNM, one to American Physical Society and one to American Astronomical Society. A cooperative research project, with Space Physics Group of Los Alamos National Lab, was initiated this year.

Seymour S. Alpert

BRSG/SURP grant (National Inst. of Health, No. 2507RR07185-02). \$2500. "Investigation into Energy Storage by Meal-Eating and Nibbling Rats." Proposal submitted to the National Science Foundation for funding under the Undergraduate Scientific Equipment Program. Two pre-doctoral graduate students are being supervised on unfunded research dealing with optical vector diffraction from a straight edge. An advanced optics teaching laboratory was established during the spring semester of 1981. The fundamental design of a device capable of measuring the activity expenditure rate of small animals was defined and clarified. The device, which hopefully will be constructed in the next two years, is based on a recoil principle. Modern electronic techniques will be used in a unique way to integrate the signal of interest and to average it over any desired time period.

Charles L. Beckel

NIH-Minority Biomedical Support: \$8,622; "Classical Force Field Modelling of Orthophosphates in Biomolecules," Sept. 1, 1981 to Aug. 31, 1982. Air Force Office of Scientific Research: \$59,610; "Diatom Molecule Properties in the Intermediate Energy to Dissociation Limit Range," Feb. 16, 1980 to Sept. 30, 1981.

John C. Bellum

"A Survey of Fundamentals in the Theory of Photon-Molecule Interaction," Technical Report TF#632, Quantum Theory Project, University of Florida, August 1981. "Analysis of charge exchange mechanisms for long wavelength lasing, under Air Force Office of Scientific Research project, "Investigations of Vacuum Ultraviolet and Soft X-ray Lasers," with total funding of \$75,000 for one year beginning in May 1981. Development of theory for electronic-to-vibrational / rotational energy transfer in atom-diatom collisions, under

Air Force Office of Scientific Research sponsored project, "Investigations into the Physics and Chemistry of the Oxygen-Iodine Laser and New Laser Concepts," with total funding of \$197,000 for one year beginning in October 1981.

Howard C. Bryant

U.S. DOE contract DE-A504-77CS33977 (4/77-6/81) \$155,952.
 Research on the Physics of Salt Gradient Solar Ponds. U.S. DOE Contract DE-A504-77ER03998 (6/77-5/82) \$380,000.
 Research on the Structure of the H- Ion. Los Alamos National Laboratory 8960-G106 \$3000. (Assistance at LAMPF.)

Jack O. Burns

Sandia (SURP) \$20,000, "Astrophysical Investigation of Galaxies," 1 year (Oct. 1980-Sept. 1981). Sandia (SURP) \$25,000, "Multiwavelength Astrophysical Studies of Radio Galaxies and Gamma-Ray Sources," 1 year (Oct. 1981-Sept. 1982). NASA, \$20,442, "Monetary Support for Einstein Observatory Projects," 2 years (Dec. 1980-Nov. 1982). Submitted to NSF, "Astrophysical Investigations of Radio Galaxies and their Environs." Submitted to NASA, "A Study of X-Ray and Radio Emission in Abell Clusters of Galaxies."

Kevin Cahill

U.S. Department of Energy, budgeted at \$15,000 for 1981-82 and at \$25,000 for 1982-83 for research in high-energy theoretical physics, #DE-ACO4-81ER140042, "Dynamics of Particles and Fields."

Colston Chandler

N-Body Quantum Scattering Theory in Two Hilbert Spaces, III. Approximation Solvability (with A. G. Gibson), UNM preprint, 106 pages, submitted for publication. (*) Connected Chandler-Gibson Equations and Few Body Collisions (with W. N. Polyzou and A. G. Gibson), UNM preprint, 36 pages, submitted for publication. Time-Dependent Scattering Theory for Identical Particles (with Gy. Bencze), to be published in Phys. Rev. C. (*) A Note of the Lippman Identity (with Gy. Bencze), UNM preprint, 6 pages, submitted for publication. (*) Multiparticle Scattering Theory and the Method of Coupled Reaction Channels (with A. G. Gibson and Gy. Bencze), to be submitted for publication.

*papers partially supported by NSF research grant PHY-8102062 "Nonrelativistic Multichannel Quantum Scattering Theory," (with A. G. Gibson) \$59,000, June 15, 1981-Nov. 30, 1983.

Weng W. Chow

SURP, \$25,000, "Theoretical Investigations of Injection Locked Lasers, Oct. 81-Sept. 82. AFOSR, \$74,699, "Investigations of Vacuum U.V. and Soft X-Ray Lasers, May 81-April 82. Experimental Injection Locking; not funded, supervising one Ph.D. student.

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Byron D. Dieterle

DOE project: "Nuclear Studies at Intermediate Energies," \$1,500,000, 8 years. Pending pion production publication and neutron scattering publication; Antiproton annihilation analysis, CERN experiment PS 183, hydrogen gas scintillation properties publication. Proposed DOE project: "Neutrino Physics at LAMPF," in collaboration with Los Alamos, Temple, Maryland, UCR; \$26,000,000. Approval for experiment 638 received, but funding of experiment not yet approved. Related preparation work includes experimental measurements

J. D. Finley, III

Travel to Mexico City in June was sponsored in part by the Conference Organizers: Dept. of Quimica, Universidad Nacional Autonoma de Mexico, Mexico City.

David S. King

Served as major advisor to James A. Lupo, who completed his Ph.D. dissertation entitled "Numerical Studies of Gravitational Accretion from X-Ray Heated Stellar Winds."

John Linsley

Papers accepted for publication: "The Radiation Length in Air," to be published in Proc. 17th Intern. Cosmic Ray Conf. (Paris), 4 pp. "Neutrino Astronomyusig SOCRAS, a Satellite Observatory for Cosmic Ray Air Shower," to be published in Proc. Southwest Regional Cong. for Astronomy and Astrophysics, editors P. S. Riherd and P. F. Gott (Texas Tech University), 8 pp. "Astronomical Applications of Large, Aberration-Limited Reflectors on Earth and in Space," *ibid.*, 8 pp., with R. Benson. "Summary of Written Contributions," to be published in Proc. Paris Workshop on Cascade Simulations, editors J. Linsley and A. M. Hillas (Univ. of New Mexico), 7 pp. "Fundamental Units of Cascade Theory," *ibid.*, 7 pp.

Papers in preparation: "Energy and Multiplicity Spectra of EAS Muons," with B.

A. Khrenov. "Extensive Air Showers," for publication in Composition and Origin of Cosmic Rays, editor M. M. Shapiro, ASI series.

Volume edited: Proceedings of the Paris Workshop on Cascade Simulations, with A. M. Hillas (Univ. of New Mexico), about 50 pp., to be published 1982.

Research Proposal: "Muon Component of Cosmic-Ray Showers," submitted to National Science Foundation, 17 pp. Amount requested, \$85,310, for 12 months.

Alan W. Peterson

In cooperation with T. F. Tuan of UC generalized Hines dispersion relation for a non-uniform atmosphere—paper being written up on this work continuing. Completed measurements analysis of an unusual lunar cloud corona wrote up first draft on it. Abstract: Title (see below) EOS (Transactions of the American Geophysical Union) Vol. 62, No. 45, p. 980, 10 Nov. 1981. Proof-read manuscript discussed problems with

L. M. Kieffaber while she wrote a study manual for a Sophomore Physics text by A. Van Hevelen.

R. Marcus Price

In progress: A Radio and Infrared Study of the Nuclear Regions of Galaxies; continued observations in both wavelength regions; awarded telescope time at both the National Radio Astronomy Observatory and Kitt Peak National Observatory during 1981; study of meter wavelength structure of the Milky Way galaxy completed, ready to be written up for publication.

Marlan O. Scully

Nonlinear Studies of the Free-Electron Laser - ONR. Agency Number N00014-80-C-0844. \$147,000 per period 7/1/80 - 6/30/82. \$77,000 for last 12 months of above period. Study of Molecular Collision Dynamics for Chemical Laser Systems - AFOSR. Agency Number AFOSR-80-0261. \$124,777 for period 8/1/80 - 10/31/81. Aspects of High-Energy Laser Theory - AFOSR. Agency Number AFOSR-80-0278. \$74,699 for period 5/15/81 - 5/14/82. Theoretical Support for the Los Alamos Free Electron Laser Project - LANL. Agency Number 9-X52-6432Y-1. \$95,122 for period 10/15/81 - 9/30/82. Investigations into the Physics and Chemistry of the Oxygen-Iodine Laser and New Concepts - AFWL, Kirtland. Agency Number F29601-82-K-0017. \$230,746 for period 11/16/81 - 11/15/82.

James G. Small

UNM Research Allocation Committee Grant, \$1,500, Electromagnetic Navigation. Iodine laser research with USAF. Ring laser research. Medical ultrasound research. Optical thin film research.

William C. Sweatt

Developing laser triggering prototype system at SNL. Will start experiments in "switch physics" (wavelength, power, energy dependence). Finishing a chapter on tolerancing of single point diamond turned optics.

Derek B. Swinson

Continued work on cosmic ray research, sponsored by NSF Grant ATM-8011424 "Cosmic Ray Anisotropies in Interplanetary Space at High Rigidities," June 1, 1980 - Nov. 30, 1983. Funding \$94,915.

David M. Wolfe

\$1,611,233 in sponsored research DOE contract.

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Michael Zeilik

UBVR Photometry of RS CVn Stars at UNM's Capilla Peak Observatory, Research Corp., \$6,750, Oct. 1980 unlimited; Observing runs at Kitt Peak National Observatory, 17-20 Jan., 23-27 Jan., 13-16 Feb., 13-19 March, 11-14 April, 23-25 May, 15-19 July for three research projects -- "Infrared Photometry Binary Stars," "Infrared Photometry of the Nuclei of Spiral Galaxies," and "Infrared Polarimetry of Compact HII Regions;" VLA run 14-16 Nov. for "Continuum Observations of a Selected Region in M31;" trips to Chaco Canyon and Tsiping to continue work in archaeoastronomy; finished 3rd edition of Astronomy: The Evolving Universe, to be published in Jan. 1982; continued development of Astronomy: The Cosmic Perspective, to be submitted Jan. 1982. Proposals submitted: "Long-Term VBR and H-alpha Observations of RS CVn Stars" to NSF Astronomy; "Continuum Observations of a Selected Region in M31" and "Godactic Nuclei with Unused IR Properties to the VLA;" "Infrared Observations of Short-Period Binaries and Long-Period, Bright RS CVn Stars," "Simultaneous Polarization and Photometric Mapping of Compact Infrared Sources," "Infrared Observations of the Nuclei of Bright Galaxies from a Statistically Complete Sample" to Kitt Peak; "Near-Infrared Observations of Knots in the Centaurus A Jet" to Cerro Tololo; "High-Resolution. UV Spectroscopy of the Kinematic Interaction of Young Compact Regions with Dense Molecular Clouds" to NASA (IUE); "Development and Testing of an Electronic Multiplexer for an IR Detector Array" to NASA (Amas)

6. Activities in learned and professional societies

Harjit S. Ahluwalia

Travelled to attend, participate and give papers at: (a) Annual Spring Meeting of American Geophysical Union at Baltimore on 25-28 May 1981; (b) 17th International Cosmic Ray Conference at Paris (France), on 11-26 July 1981. Also participated in and gave papers at: (a) 157th Meeting of American Astronomical Society, held in Albuquerque on 11-14 January 1981; (b) New Mexico Astronomers' Meeting held at UNM in Sept. 1981. Chairman for session on "Solar Cycle Modulation of Galactic Cosmic Rays and Other Particles," of 17th ICRC at Paris. Participated in the Workshop on "The Future of 1012-1014 eV Anisotropy Measurements," at 17th ICRC. Referee for (a) Research Proposals submitted to Solar-Terrestrial Physics Section of NSF, (b) Papers submitted to the Journal of Atmospheric and Terrestrial Physics (JATP). Gen. Secy. of High Energy Group in STIP, a sub-group of the International Council of Scientific Unions (ICSU), 1976-.

Seymour S. Alpert

American Association of Physics Teachers. American Physical Society. Laser Institute of America. Nutrition Today Society.

Charles L. Beckel

NM Academy of Science, Oct. 29, 1981, paper "A UNM Physicist's Role in US Arms Control Policy."

John C. Bellum

Active participation on Membership Committee, Albuquerque Section of the Optical Society of America. Attended Molecular Dynamics Conference sponsored by Air Force Office of Scientific Research and Air Force Weapons Laboratory, 9-11 November 1981, Kirtland Air Force Base.

Howard C. Bryant

Referee for the American Journal of Physics (3 articles reviewed in 1981). Referee for the Journal of the Optical Society of America (1 article reviewed in 1981). Attended LAMPF Users' Meeting Nov. 2, 1981, Los Alamos, NM.

Jack O. Burns

Papers presented at meetings: "X-Ray Emission Around Radio Sources in Clusters of Galaxies: A Possible Physical Link Between Environment and the Generation of Radio Emission," "Multifrequency VLA Observations of 3C388--Evidence of an Intermittant Jet," "What Bends Wide-Angle Tailed Radio Sources".

Kevin Cahill

Attended the Second Annual Workshop on Grand Unification at the University of Michigan in April. Gave a lecture on grand unification at N.M.S.U., Las Cruces. Also I arranged a series of theoretical seminars at UNM, including a Sandia-sponsored series by P. van Nieuwenhuizen. I gave some of these seminars myself as well. I also arranged an experimental colloquium by W.K.H. Panofsky, director of SLAC. Also, I'm a referee for Phys. Rev. and Phys. Rev. Letters.

Colston Chandler

Chairman of session, Gordon Research Conference on Few Body Problems in Chemistry and Physics, Wolfsboro, NH, August 1981. Invited participant, Few Body Workshop, Brown University, Aug. 1981. Attended H-workshop, LANL, Nov. 1981. Chairman of Session, SW Theory Conference (Feb. 1981). Treasurer: UNM chapter AAUP.

Weng W. Chow

An optically biased laser gyro, contributed paper, CLEO '81 and Showcase for Technology Change Exchange X-ray Laser Systems-invited paper LASER-81 International Conference.

Byron Dieterle

Preparation of E-P PS183 at Cern in connection with ongoing DOE Project "Nucleon Physics Studies."

J. D. Finley, III

Requested talk at Rocky Mountain Theoretical Physics Conference, Los Alamos, February, 1981. Requested talk at Conference in June in Mexico City and at conference in August in Pittsburgh (see #2) for a mathematical audience. Also Colloquium in Physics Dept. and in UNM Mathematics Dept.

David S. King

Attended Amer. Astron. Soc. meeting held in Albuquerque, Jan. 11-14, 1981, and presented paper entitled "The Effect of Opacities on the Periods and Period Ratios of BL Herculis Stars." Presented a paper entitled "Variable High Luminosity Helium Stars" at meeting of NM Academy of Science held in Albuquerque, Oct. 29-30, 1981.

John Linsley

Elected to membership, New York Academy of Sciences. Appointed to membership in planning committee for 19th International Cosmic Ray Conference, to be held in North America in 1985. Participated in committee meetings in Baltimore, MD and Paris, France. Organizer and Chairman of Paris Workshop on Cascade Simulations. Attended and presented paper, 157th Meeting of American Astronomical Society, Albuquerque. Attended and presented paper, 1981 Baltimore Meeting of American Physical Society. Attended and presented paper, Southwest Regional Conference for Astronomy and Astrophysics, Albuquerque, 1981.

Alan W. Peterson

American Geophysical Union Fall meeting Dec. 81 - Paper: "On the Association of Observed OH 'Ripples' with Secondary Waves Produced by a Primary Gravity Wave During Lower Lunar Transit," with T. F. Tuan, L. M. Kieffaber, D. Popadopoulos R. Nadile.

R. Marcus Price

American Astronomical Society: Appointed chairman of the Manpower and Employment Committee. Chairman of the Local Organizing Committee for the semi-annual meeting fo the AAS held in Albuquerque (at the invitation of UNM) in January 1981. Over 600 astronomers from North America attended this meeting at UNM. Attended Meeting of AAS in June 1981 in Calgary, Canada. Chairman of paper session on galaxies.

International Astronomical Union: In charge of Albuquerque arrangements for IAU Symposium 97 on Radio Galaxies. Presented paper on Radio Galaxy Centaurus A. Received a grant of \$6500 from the National Science Foundation to help support this conference. Attended by over 200 scientists from all over the world. Southwest Regional Conference of Astronomers: Member of board of directors. New Mexico Academy of Sciences: Co-chairman of committee on a new science center for New Mexico (with Richard Griego). Chairman of Physics Paper Session at fall meeting. Member of the governing board of the NMAS. International Scientific Radio Union: Appointed as official U.S. delegate by National Academy of Sciences for meeting in Washington, D.C., August 1981. Optical Society of America--Albuquerque Branch: Foundation member and inaugural speaker. Rocky Mountain Theoretical Physics Conference, Los Alamos: Chairman of Astrophysics Paper Session.

Marian O. Scully

Invited papers were presented at the Jasper International Conference on Laser Spectroscopy; German Physical Society in Mar. 1981, Germany; Laser's 81 conference in New Orleans (invited paper on x-ray lasers); and Southwestern Rocky Mountain International Theoretical Conference.

James G. Small

Founding member, Albuquerque section of Optical Society of America.

William C. Sweatt

IEEE Pulsed Power Conference (Albq., June 1981) Conference Organizer. Poster Paper in "Abq. Showcase on Technology" on laser triggering.

Derek B. Swinson

Attended 17th International Cosmic Ray Conference in Paris, France, and read paper "Extended Periods of Enhanced Solar Diurnal Variation." Attended 157th Meeting of American Astronomical Society in Albuquerque, and read paper "The Z-component of the Interplanetary Magnetic Field and Cosmic Ray Anisotropies."

Michael Zeilik

"Possible Astronomical Alignments at Tsiping, a Late Anasazi Site," with G. Sprinkle at the 157th AAS meeting, Albuquerque, Jan. 1981. "The Large Astronomy Lecture Course with a Lab," at the 157th AAS meeting, Albuquerque, Jan. 1981, (invited paper). "UBVR and JHKLM Photometry of Selected RS CVn Stars," with G. Henson, P. Smith, M. DiSanti, and P. Solosky, at the 157th AAS meeting, Albuquerque, Jan. 1981. "Infrared Photometry of Algol and Beta Lyrae," with G.

Henson, P. Smith, and E. Budding, 7th annual meeting of the Southwest Regional Conference for Astronomy and Astrophysics (SWRCAA), Albuquerque, May, 1981. "UBVR Photometry of UV Psc, RT And, and W92--Short-period RS CVn Stars," with R. Elston, D. Carriaga, G. Henson, and P. Smith, 7th annual SWRCAA meeting, Albuquerque, May, 1981. "Possible Astronomical Alignments at Tsiping Pueblo, New Mexico," with G. Sprinkle, 7th annual SWRCAA meeting, Albuquerque, May, 1981. Elected President of the Southwest Regional Conference for Astronomy and Astrophysics; served on Educational Board of the American Astronomical Society; attended 157th meeting of the American Astronomical Society; attended the Draper Memorial Symposium on the Orion Nebula; International Astronomical Union Symposium #97 on Extragalactic Radio Sources.

7. Other professional activities.

Harjit S. Ahluwalia

Gave invited Colloquia at (a) NMSU, Las Cruces, and (b) UTEP, El Paso. Gave a slide talk on "India: Country, People and their Culture," to Optimist Club at Rio Rancho, under sponsorship of UNM Speakers' Bureau, on 8 Jan. 1981. Gave a talk under the auspices of the Journal Club of our Department on 28 October 1981. In-charge of Departmental Colloquia, Seminars, and Public Talks.

Seymour S. Alpert

a. UNM patent disclosure No. 170. "A Linear Fick's Law Calorimeter." b. Off-campus lectures at Rio Rancho Rotary, Jan. 20, 1981 and Rio Rancho Kiwanis Club, Apr. 30, 1981. "Lasers, What are they, How do they work, What are their applications." c. Off-campus courses at Lembaga Instrumetasi Nasional; Bandung, Indonesia "Lasers and Metrology" and "The Fourier Transform and its Optical Applications".

Charles L. Beckel

1. Physics and Astronomy Colloquium, UNM, Oct. 28, 1981, "US Arms Control Policy." 2. Policy Advisory Board Member, Navajo Sci. and Math. Educ. Assess. Project. 3. Consultant, US Arms Control and Disarmament Agency, Aug. 11, 1981-

Howard C. Bryant

Two colloquia at the Univ. of Wyoming, Laramie, "Atomic Physics with Relativistic Beams" and "Why the Sea is Boiling Hot: Salt Gradient Solar Ponds" Feb. 10, 1981. Invited Paper at U.S.-Mexico Joint Seminar on Negative Ions. Galindo, Mexico. Referee for NSF research proposal. Consultations: Western Energy Planners, Ltd. and the Santa Ana Pueblo (2 visits to the UNM solar pond, slide show and discussions with Santa Ana tribal members in 1981); Ministry

of International Trade and Industry, Engineering Advancement Assoc. of Japan (visit by a delegation of 5 to discuss solar ponds at UNM, Dec. 18, 1981); Desert Research Institute, Univ. of Nevada System, Energy Systems Center (visit by Wolfgang Marschewski, Dec. 31, 1981). H-Workshop: I organized and chaired a workshop "The Physics of the H- Ion" held at Los Alamos, NM, Nov. 12, 13, 1981. This workshop brought together some 40 experts on the negative ion of hydrogen. I presented a 1-hour lecture at this conference entitled "H-in Strong Electric Fields" Experimental Results." A conference proceedings is being prepared.

Jack O. Burns

2 TV appearances on KOB-TV, 2 local radio interviews. Consult on robbery court case with regard to Moon lighting conditions. Member of local organizing committee for American Astronomical Society meeting in Albuquerque, and for International Astronomical Union Symposium in Albuquerque.

Kevin Cahill

I was the local coordinator of the November 11th Convocation on the Threat of Nuclear War, which included talks by the Nobel laureate Hans A. Bethe and by the distinguished physician Paul B. Beeson. In order to publicize this event, I appeared on the TV show Pueblo Viewpoint on Channel 13. UNM's participation in this national convocation received favorable, if minor, notice in The N. Y. Times and the Boston Globe as well as in the local print and electronic media.

Colston Chandler

4 lectures in PREFACE program. Referee: 1 research proposal for DOE. 1 for NSF; 1 paper for Phys. Rev. Lett and 2 papers for J. Math. Phys. Colloquium: NMSU, A New Approximation Strategy in Nuclear Reaction Theory (March 1981); UNM, The Coulomb Problem in Scattering Theory (March 1981).

J. D. Finley, III

Reviewer for Mathematical Reviews. Sent a proposal to the section of NSF for joint funding of collaborative efforts with Latin American scholars. Gave talk on expanding type N gravitational waves to Physics Dept. of Centro de IEA del IPN, Mexico City.

McAllister H. Hull, Jr.

"Responsibility of Astronomers to Promote Understanding of Basic Research Among Lay Audiences," Introduction, 157th Annual Meeting of the American Astronomical Society, 1/12/81. "Prospects for Growth of High Technology Industry in New Mexico," testimony prepared for Senator Harrison Schmitt, 2/9/81. "Basic Research for Economy and Defense," testimony for the Subcommittee on Science, Technology and

Space, April 22, 1981. "Women in Science: The Past, The Prospects, A Program for Encouragement," the welcoming address for Women in Science Conference, 5/23/81. "The Quark Analysis of Finnegans Wake," welcoming address to the Joyce Conference, 6/12/81. "Technical Manpower Needs and University/Industry Cooperation," speech for the 24th Midwest Symposium on Circuits and Systems, 6/29/81. "The Importance of a Humanistic Education," a "Last Lecture" for UNM, 9/14/81. "Moving Technology Into the Market Place: A University View," a speech for the Showcase for Technology, Albuquerque Convention Center, 10/30/81. "Developing and Maintaining Excellence at UNM," a speech for the UNM Faculty Senate Meeting, 11/10/81. "Duality in Modern Science and Ayala's novels: Remarks at opening of Ayala Symposium, UNM, 1980," Simposio Internacional Ramon Perez de Ayala, University of New Mexico, Imprenta Flores, Gijon, 1981.

David S. King

Consultant to Los Alamos National Laboratory.

John Linsley

Refereed papers submitted to Nature, Physical Review and Physical Review Letters (half a dozen). Refereed research proposals submitted to National Science Foundation and Department of Energy (4 or 5). Made a presentation on SOCRAS, a proposal for employing space platforms in the study of very high energy cosmic rays and related phenomena, to the Cosmic Ray Program Working Group of NASA, at Goddard Space Flight Center. Gave a colloquium talk, "High Energy Cosmic Rays," to Physics Department, New Mexico State University, Las Cruces. Gave a colloquium talk, "Very High Energy Cosmic Rays," to Physics Division, Los Alamos Scientific Laboratory. Presented a seminar, "Radiazione Cosmica ad Altissima Energia," at the Istituto Osservatorio Astronomico, University of Rome.

Alan W. Peterson

Colloquium on OH airglow gravity waves; seminar on zodiacal light and infrared emission from circumsolar dust at U. of C. Physics Dept., Cincinnati, OH.

R. Marcus Price

Harlow Shapley Visiting Lecturer for the AAS: Spoke at Western Arizona University in Yuma. Three classroom presentations plus one public lecture. Appeared on local TV talk show. Luncheon speaker for the Shriner's Caravan Club, February 1981. Colloquium speaker (joint physics and astronomy departments), Boston University, November 1981. Member of Users Committee of the National Radio Astronomy Observatory. Attended meetings May and November 1981,

Charlottesville, VA. Member of the Federal Frequency Management Advisory Council (National Telecommunications and Information Administration). Attended three meetings in Washington, D.C. Consultant to the National Radio Astronomy Observatory on research programs. Consultant to Radio Spectrum Manager of the National Science Foundation. Referee on National Science Foundation proposals in astronomy. Journal article referee for several astronomy and physics journals. Volunteer for Open House nights at Campus Observatory. Organized northern New Mexico astronomers meeting at UNM, September 1981. Area Organizer for Atmospheric and Astronomical Sciences displays at Technology Showcase, October 1981.

Marlan O. Scully

Organized first Southwest Rocky Mountain Theoretical Physics Conference with Pete Carruthers at Los Alamos. Co-organizer of the Physics of Quantum Electronics Winter Symposium in Utah, Feb. 81. Organized Free-Electron Laser Workshop in Sun Valley, Idaho, July 81. Participant in organizing the Showcase for Technology.

James G. Small

Showcase for Technology talk on medical physics. Talk for physics brown-bag seminar. USAF Academy talk on ring lasers and relativity. Lectures to Manzano High School physics classes. Consultant to: International Laser Systems, Inc.; United Technologies, Inc.; USAF; CVI Corporation.

William C. Sweatt

Consultant to ILS on nonlinear optics. Consultant to Sandia; designed a laser system and beam distribution system for triggering the Particle Beam Fusion Accelerator.

Derek B. Swinson

Appeared in Albuquerque Little Theatre production of "See How They Run." Consulted in accident reconstruction; appeared as an expert witness in accident reconstruction in state and federal court in New Mexico.

Michael Zeilik

"Ancient Astronomy in New Mexico," Albuquerque Chapter of IEEE, March 1981. "Vernal Equinox," KGGM-TV, March 1981. "A Cosmic Vision," Junior Science and Humanities Symposium, Albuquerque, March 1981. "Jupiter Effect," KGGM-TV, KOB-TV, KOAT-TV, March 1981. "Black Holes," "Molecular Clouds," and "Ancient Astronomy in New Mexico," all at Doane College, Crete, Nebraska, April 1981. "The Birth and Death of Stars," Jemez Valley High School, April 1981. "Creativity in Astronomy," English 488-588 UNM, April 1981. "Ancient Astronomy in New Mexico," Alpha Centura Club, May 1981.

"Lunar Eclipse" and Perseid Meteor Shower," various radio and TV stations, Aug. 1981. "Prehistoric Astronomy in New Mexico," Santa Fe Amateur Astronomers, Oct. 1981. "Stardeath," Our Lady of Fatima Middle School, Albuquerque, Oct. 1981. "Archaeoastronomy of Chaco Canyon," UNM School of Architecture, Oct. 1981. "Archaeoastronomy in New Mexico," "Starbirth," "Stardeath," Haskell Indian Jr. College, Lawrence, Kansas, Nov. 1981. "Energy in the Universe," Phoenix Community College, June, 1981. "Ancient Astronomy in New Mexico," UNM Sigma XI Distinguished Lecture Series, April, 1981. "Archaeoastronomy in New Mexico," Sigma Xi, New Mexico Tech, Socorro, NM, Nov. 1981. "Prehistoric Astronomy in New Mexico," Sandia Colloquium, Dec. 1981.

8. Non-teaching University service

Harjit S. Ahluwalia

Member of: a) UNM Science Colloquium Committee, 1972-; b) UNM-Sandia Colloquium Committee, 1972-; c) UNM Research Policy Committee, 1980-; d) UNM-RPC Sub-Committee on Research Overhead Review, 1980-81; e) Working Group on Mexico of the Committee on the Exchanges with the Latin American Institutions, 1981-. Chairperson of: a) RPC Ad-hoc Committee on Sabbatical Pay Policy, 1980-81; b) RPC Research Recognition Sub-Committee, 1981-. Service on Departmental Committees for: a) Public Relations, 1973-; b) Graduate Student Admissions and Related Matters, 1972-; c) Undergraduate Students, 1980-. Chairperson of Departmental Committees for: a) Faculty Search, 1979-81; b) Faculty Fellows Search, 1980-81; c) Ph.D. Dissertation of J. F. Riker, in progress; d) M.S. Thesis by J. D. Beason. Thesis was successfully defended, submitted and approved. The candidate obtained his degree at 1981 commencement. Participated in the following activities of the Department: a) Parents' Day on 26 September 1981; gave a talk on Sun. b) Contributed and graded questions for Qualifying Exam in spring and Comprehensive Exam in fall of 1981. c) Chairman of Committee on Studies for four students who took Qualifying Comprehensive Exams. d) Reader for the Ph.D. Dissertation of James Anthony Lupo; submitted and approved in Dec. 1981.

Seymour S. Albert

UNM Faculty Senate, member; Budget Review Committee, member.

Charles L. Beckel

Participant in Program of Parents Day, Sept. 26, 1981; also Senior Day, Nov. 7, 1981. Member: Physics and Astronomy Public Relations Committee.

Howard C. Bryant

Chr. Panda Public Relations Committee; Panda Advisory Committee (Spring 81), Dean's Tenure Committee (Fall 81), SURP Review Committee (Scaletti), BRSR Review Committee (Scaletti), Parents' Day, Seniors' Day.

Jack O. Burns

Physics Astronomy Dept. Computer Committee, UNM Computer Graphics Committee, Dept. Astronomical Preprint Librarian, Faculty Advisor for 4 graduate students, participant in UNM high school senior day.

Kevin Cahill

Advised students and gave extra reading courses; attended faculty meetings; started a physics preprint library and got on many preprint mailing lists.

Colston Chandler

A and S Natural Sciences Mathematics Promotion Committee. Faculty Senate Curricula Committee (Chairman, Fall 81). Academic Freedom and Tenure Committee (Fall 81). Physics Department Graduate Committee, Faculty Search Committee.

Weng W. Chow

Faculty advisor for Bob Dunn, Ph.D. Dissertation. Exam Committee-Doug Beason and G. Kurizki.

Byron Dieterle

Computer Committee; Lab Committee; Public Relations Committee; Accelerator Committee; Graduate Advising Committees.

J. D. Finley, III

Chairman Senate Graduate Committee; Member A and S Graduate Committee, Chairman Dept. Graduate Committee; Dept. Library Liaison; Faculty advisor for graduate students; coordinator for Dept. scheduling.

David S. King

Advisor to undergraduate astrophysics majors. Served on graduate undergraduate and public relations Department committees. Coordinated and administered Graduate Comprehensive Exam.

John Linsley

Physics and Astronomy Space Committee, Exam. Committee for Aka Finci (Ph.D. qualifying).

R. Marcus Price

Visited Los Alamos high school and spoke to physics classes (UNM outreach and recruitment). Fall recruitment campaign volunteer: student home visits, December 1981. Department chairman—ex officio member of department committees.

Marlan O. Scully

Developed Ph.D. curriculum for Optical Physics and Optical Engineering. Director of the Institute for Modern Optics.

James G. Small

Associate Director, Institute for Modern Optics. Committee for Optical Sciences Degree. Committee for Video Courses.

William C. Sweatt

Faculty advisor for UNM Folk Dance Club.

David M. Wolfe

Grad. Comm., Undergrad. Comm., Lab Committee, Undergraduate advisor.

Michael Zeilik

Improvement of Campus Observatory with grant from Slipher Fund, \$1100, June 81-June 82; member of Arts and Sciences Teaching Resources Committee; Department G*POP coordinator; member of the editorial board of the Journal of College Science Teaching and the Astronomy Quarterly; reviewer for the Astrophysical Journal, the American Journal of Physics; worked for Public Nights at the Campus Observatory and made Astronomy Hotline announcements (averaging about 20 calls/week); UNM Senior Day 1981.

9. Public Service

Seymour S. Alpert

Corporate Secretary, Fellowship of the Desert (a religious society); President, New Mexico Vintners' Guild (a public society to encourage the home making of wine).

Charles L. Beckel

National Kidney Foundation of NM, member, Board of Trustees.

John C. Bellum

Member, Hope Evangelical Free Church, Albuquerque, NM.

Howard C. Bryant

Blood donor, United Blood Services.

Jack O. Burns

Talks to Santa Fe Amateur Astronomical Society and to UNM Parents Day Audience.

Kevin Cahill

Associated with the religious teach-in "Waging Peace in an Armed World."

Byron Dieterle

Junior High School project assistance on X-ray detection.

J. D. Finley, III

Asst. coordinator, Cactus Succulent Society of America 18th Convention.

R. Marcus Price

Committeeman for Explorer post sponsored by department; block organizer for Glenwood Hills Neighborhood Association.

Marlan O. Scully

Sunday School Teacher, lecturer demonstrations at Estancia, New Mexico Public Schools.

James G. Small

Member of church choir; member of Albuquerque Soaring Club; frequent consultant for high school science fair projects; member of InterVarsity Christian Fellowship local committee.

William C. Sweatt

Sandia Search and Rescue Team, Los Alamos Ski Patrol, Red Cross First Aid Instructor.

Derek B. Swinson

Soccer coach A.Y.S.O.; presented musical programs to several social and charitable organizations in Albuquerque.

David M. Wolfe

Helped coach my son's little league team.

THE REPORT OF THE DEPARTMENT OF POLITICAL SCIENCE

July 1, 1981 - June 30, 1982

James Lee Ray, Chairman

I. General Departmental InformationA. Significant Achievements. Continuing individual productivity.B. Significant Plans and Recommendations. 5-year projection.

(December, 1981)

C. Appointments. Joel E. Brooks, Visiting Assistant Professor, August 17, 1981. Angela Delli Sante, Visiting Associate Professor, January 18, 1982. Richard Fralin, Assistant Professor, August 17, 1981. Jeanne L. Wilson, Visiting Instructor, August 17, 1981.

D. Separations. Joel E. Brooks, Visiting Assistant Professor, May 15, 1982. Angela Delli Sante, Visiting Associate Professor, May 15, 1982. Tim J. De Young, Assistant Professor, May 15, 1982. Martha Good, Assistant Professor, February 1, 1982. Jeanne L. Wilson, Visiting Instructor, May 15, 1982.

E. Sponsored Research or Other Projects.

a. Number and percent of faculty submitting proposals to outside agencies: 5 (31 percent)

b. Number and percent of faculty obtaining awards from outside agencies: 0 (0 percent)

II. Information from Biographical Supplements

1. Advanced Study: Joel E. Brooks, Ph.D. Carleton University (Ottawa, Canada), August, 1981, Dissertation title: "Socio-Economic Inequality in the Developed Democracies: Politico-Economic Determinants and Consequences". Debra C. Rosenthal, Ph.D., State University of New York at Binghamton, 1981, Dissertation title: "The Concepts of Rationality in the Policy Sciences."

2. Leave, Travel, etc. Joel E. Brooks, travel to Yale University to confer with Dr. David Cameron regarding Ph.D. dissertation and his research on same topic, July, 1981. Paul Hain, travel to Texas and Tennessee. Martin C. Needler, Sabbatical Leave, Fall, 1981; Travel for research to Spain, Summer, 1981. James Lee Ray, Sabbatical leave, Fall, 1981. Karen L. Remmer, Sabbatical leave, Spring, 1981. Jay B. Sorenson, Leave of absence, Spring, 1981. Harry P. Stumpf, Sabbatical leave, Spring, 1981.

3. Scholastic Honors, Fellowships, etc. F. Chris Garcia, Alumnus of the Year Award, Valley High School. Fred R. Harris, Full-bright Scholarship for 3 months study and research and travel in Mexico, Summer, 1981. Chosen by students in UNM Instructor Course Evaluation System as "Excellent" professor and in top ten percent. Peter A. Lupsha, Consortium for the Study of Intelligence Fellow, Bowdoin College, Maine, July-August, 1981.

4. Publications

a. Tim J. De Young, Assistant Professor

--"Searching for the Milagro Beanfield: The Politics of Surface Water in New Mexico, Public Service, Vol. 8, No. 1, 1981.

--Approaches to City Council Effectiveness Training, occasional paper for the National League of Cities, 1981 (with William Siembieda.)

b. F. Chris Garcia, Professor, Dean, Arts and Sciences

- New Mexico Government (revised edition). Albuquerque, NM: University of New Mexico Press, 1980, 306 pp. Co-edited with Paul Hain.
- "Chicanos in the United States: A History of Exploitation and Resistance." Daedalus, Spring 1981, Vol. 110, No. 2, pp. 103-132. Co-authored with Leobardo Estrada, Reynaldo Macias and Lionel Maldonado.
- "The Continuation of a Long Journey: Mexican-Americans in U.S. Politics, 1965-1980." The Chicano.
- Community and California Redistricting, Vol. I, pp. 14-36. Claremont, California: The Rose Institute of State and Local Government, Claremont College.

c. Paul L. Hain; Associate Professor

- Government of New Mexico, (revised edition). University of New Mexico Press, 1980, co-editor, 306 pp.
- Co-author, "The Legislature", Chapter 3 of Government of New Mexico, pp. 33-67.
- Co-author, "Voting, Elections, and Parties," Chapter 10 of Government of New Mexico, pp. 218-239.
- Co-author, "A Concluding Note", Chapter 13 of Government of New Mexico, pp. 291-296.
- Co-author, "Risk and Progressive Candidacies: An Extension of Rohde's Model", American Journal of Political Science, February, 1981, pp. 188-192.
- Co-author of "Partisan Factors in New Mexico Through 1980", Comparative State Politics Newsletter, March, 1981, pp. 2 and 3.
- Co-author of "New Mexico in the 1980 Elections at the State Level", special issue of Comparative State Politics Newsletter, January, 1981, pp. 17-19.

d. Fred R. Harris, Professor

- "Tribal Governments of New Mexico" (with Ladonna Harris) in F. Chris Garcia and Paul L. Hain, eds., New Mexico Government, University of New Mexico Press, 1981.
- "The 1980 Elections; The Voters Turn Toward Reagan and the Republicans", supplement to America's Democracy, Scott, Foresman, supplement, 1981.

e. Peter A. Lupsha, Associate Professor

- "American Values and Organized Crime: Suckers and Wiseguys", in Sam Girgus ed. Myth, Popular Culture and American Ideology: The American Self. (Albuquerque, N.M. University of New Mexico Press, 1981) pp. 144-154.
- "Individual Choice, Material Culture, and Organized Crime", Criminology, Vol. 19, No. 1, May 1981, pp. 3-24.
- "Proactive Intelligence to Combat Organized Crime" The Police Chief, November 1981, pp. 29-32.
- "Correcting Corrections", Impact Magazine, Vol. 4, July, 1981.
- Poem: "Afternoon at Ned's El Portal", N.M. Independent. Vol. 85:39, May 29, 1981.

f. Martin C. Needler, Professor

- "Mexico" in Yearbook on International Communist Affairs, 1981.
- "France's New President", syndicated by New Mexico Humanities Council in various New Mexico newspapers, July, 1981.
- "Europe's Influence on Latin America," Miami Herald, September 29, 1981.
- Book reviews in the American Political Science Review, the Journal of Developing Areas, the Journal of Interdisciplinary History and the Inter-American Review of Bibliography.

g. James Lee Ray, Associate Professor, Chairman

- "Dependence, Political Compliance, and Economic Performance in Latin America and Eastern Europe." In The Political Economy of Foreign Policy Behavior, edited by Charles W. Kegley and Pat McGowan, Sage Publications, Beverly Hills, 1981, pp. 111-136.

h. Karen L. Remmer, Associate Professor

- Review of John Dinges and Saul Landau, Assassination on Embassy Row and Donald Freed, Death in Washington: The Murder of Orlando Letelier in Hispanic American Historical Review, vol. 61 (Nov. 1981): 784-786.
- Review of Elsa Chaney, Supermadre: Women in Politics in Latin America in Journal of Politics, vol. 43 (May 1981): 613.

i. Philip G. Roeder, Assistant Professor

- "Risk and Progressive Candidacies: An Extension of Rohde's Model," American Journal of Political Science (February, 1981) co-authored.

i. Debra C. Rosenthal, Assistant Professor

- Reviews of Arrow's Theorem: Rational Belief Systems, and The Political Philosophy of the Frankfurt School in International Studies in Philosophy.

j. Robert J. Sickels, Professor

- Review of John M. Orman, Presidential Secrecy and Deception, in Social Science Quarterly, September, 1981.

j. Jay B. Sorenson, Professor

- "The Political Side of Risk," Coauthor: C.A. Trauth, Policy Perspectives, Summer, 1981, Vol. I, Rutgers University.
- "A New Approach for Assuring Acceptable Levels of Protection From Occupational, Safety, and Health Hazards," Coauthor: C.A. Trauth, Sandia National Laboratories, 1981.

k. Jeanne L. Wilson, Visiting Instructor in Political Science

- "Worker Participation in Management in Post-Mao China," submitted to the Journal of Work and Authority.
- "The Role of Women Workers in the Hangzhou Textile Industry," to be submitted to Women and Politics.

5. Other Research in Progressa. Joel E. Brooks, Visiting Assistant Professor

- dissertation presently being revised for submission for publication: "Relationship between Mass Public Opinion and Public Policy: Democratic Linkage in the Anglo-American Democracies", "Sexual Inequality in Western Europe and North America: a Cross-National Analysis of Political Determinants"

b. Tim J. De Young, Assistant Professor

- "A Guide to the Case Study", Submitted for publication;
- "State Water Resources Policy in Transition: A Comparative Analysis", in progress with Terry D. Edgmon;
- "Sludge Irradiation: A Case Study of Public Reactions to Nuclear Technology", in progress with Bruce M. Thomson
- "The Constitutionality of Property Qualifications for Voting in Special Districts, forthcoming.

c. F. Chris Garcia, Professor, Dean, Arts and Sciences

- Completed book manuscript: U.S. Politics and Education.
- Article completed and submitted for publication: "Despite the Odds: Waging and Projecting a Successful Campaign."

d. Paul L. Hain, Associate Professor

- Work continues on Legislative Process book for Scott-Foresman & Co., coauthor with Fred Harris.
- Work continues on analysis of state political careers, especially of Tennessee legislators.

e. Fred R. Harris, Professor

- Working on 2nd edition of America's Democracy, An Introductory American Government Text for College Level.
- Finished work on America's Legislative Process (with Paul L. Hain) A Text, To be published by Scott Foresman, 1982.

f. Peter A. Lupsha, Associate Professor

- Feasibility Study: The Use of Landsat Data for Detecting Land Use in Northern Colombia, submitted to Drug Enforcement Administration with Stan Morain TAC in February, 1981, \$65,396.
- "Project YATAHEY - An Analysis of Vulnerabilities in Southwestern Border Areas to Non-Conventional Catastrophe" submitted to Defense Intelligence Agency, July, 1981; \$122,005.
- "The Perverted Mirror: Culture and Mind of Organized Crime" submitted to the Ford Foundation, August 1981, \$39,650. All Rejected.

g. Martin C. Needler, Professor

- "Mexican Politics: the Containment of Conflict", book, completed, for Hoover Institute Press
- "F-23; the Failed Spanish Coup in Perspective", article, completed, for Europa.
- "Mexico, Uncomfortable Ally", book chapter, completed.
- "The Limits of Hegemony in the Caribbean", article, completed, for Caribbean Review.
- in process: 3 other articles, and book on the Latin American military.
- Proposal to examine the presupposition of the various social science fields and see to what extent they could be reconciled and the basis created for an integrated social science. Submitted to Ford Foundation, \$25,000. Rejected.
- Submitted a bid for a research contract to the State Department Division of External Research on the prospects for Democracy in Latin America. \$50,000. One of two finalists. Rejected.

h. James Lee Ray, Associate Professor

- "World-System Forces and Political Instability in America." (A paper on this research project will be presented at the 1982 convention of the American Political Science Association.)
- "The 'World-System' and the Global Political System: A Crucial Relationship?" In Foreign Policy and Modern World-System, edited by Pat McGowan and Charles W. Kegley, Sage Publications, Beverly Hills, (Forthcoming).
- "Understanding Rummel." (A review article on Volumes I-V of Understanding Conflict and War by Rudolph Rummel.) Journal of Conflict Resolution 26/1 (Forthcoming, March 1982).
- "The Future of U.S.-Israeli Relations: A Parting of the Ways?" (A paper to be presented at the 1982 convention of the International Studies Association.)
- "Inter-American Relations." A chapter for a textbook on Latin America to be published by Westview Press.
- Global Politics. (Revised edition: Forthcoming, 1983).

i. Karen L. Remmer, Associate Professor

- "Bureaucratic-Authoritarianism Revisited," Latin American Research Review, vol. 17. forthcoming (Gilbert W. Merkx, co-author)
- Completion of book manuscript on Party Development, Electoral Competition, and Public Policy in Chile and Argentina.

j. Philip G. Roeder, Assistant Professor

- "Rational Revolution: Extensions of the By-Product Model of Revolutionary Involvement," Western Political Quarterly, (March, 1982).
- Book Review: "Soviet-American Relations in the 1980s," Journal of Politics (May 1982).
- Rational Revolt: Peasant Involvement in Two Twentieth Century Revolutions (Book manuscript in progress). (Working on revisions suggested by reviewers and editor).
- Soviet Decision-Making Regimes and Soviet Foreign Policy in the Third World (in progress).

k. Debra C. Rosenthal, Assistant Professor

- in progress: a paper on "Metaphors, Analogies, and Models in Social Science" for the Western Political Science Association meetings.
- in progress: Instructor's Manual & Study Guide for America's Democracy 2nd ed. (Scott, Foresman & Co.)

l. Robert J. Sickle, Professor

- At work on a study of the constitutional ideas of Justice John Paul Stevens.

m. Jay B. Sorenson, Professor

- "Environment, Safety and Health Constraints on the Development of Oil, Gas, and Synfuels, Department of Energy," 150 pages.
- "The Assurance of Reasonable Toxic Risk," article accepted for publication, Natural Resources Journal, projected publication date, Fall 1982.

n. Harry P. Stumpf, Professor

- In progress - Text, American Judicial Politics Monograph, Community Judicial Politics.

o. Jeanne L. Wilson, Visiting Instructor in Political Science

- dissertation in progress; also research work on current Chinese economic reforms.

6. Activities in Professional Societiesa. Tim J. De Young, Assistant Professor

- Presented Paper, "Three Approaches to City Council Effectiveness Training (with William Siembieda)," to the Western Political Science Association Annual Convention, Denver, Colorado, 3/81.

b. Richard Fralin, Assistant Professor

- presented paper entitled "Rousseau and Contemporary Theories of Representation" at the American Political Science Association Annual Meeting in New York, September 5, 1981.

c. F. Chris Garcia, Professor, Dean, Arts and Sciences

- Attended annual meeting of American Conference of Academic Deans/Association of American Colleges, January 8-10, Denver.
- Attended Council of Colleges of Arts and Sciences (CCAS) seminar/workshops for deans, March 19-20, Dallas, TX.
- Panel discussant, "Political Change and Chicanos: Political Actors, Linkages and Policy," March 26-28, Denver.
- Panel Participant, "Taking Positive Steps in the Struggle for Affirmative Action: Education," N.M. Affirmative Action Coalition Conference, June 13.

c. F. Chris Garcia (Continued)

- Presentation: "Management of Remedial Programs Within the University." Rocky Mountain Deans' Conference, August 6-7, Logan, Utah.
- Panel Commentator, "Minority Groups and the State: Access and Consequences," American Political Science Association Convention, September 3-6, New York City.
- Attended annual meeting of Council of Colleges of Arts and Sciences (CCAS), November 10-13, Lake Tahoe.

d. Paul L. Hain, Associate Professor

- Chairman, "Legislatures" Internal Organization: Committees' panel at the Southern Political Science Association meeting, Memphis, Tennessee, November, 1981.

e. Fred R. Harris, Professor

- Chair, Panel on "Fuel and Power: Energy and Politics in North America", Western Political Science Meeting, March, 1981.
- Paper, U.S.-Mexico Issues, 23rd A.F. Academy Assembly, February, 1981.
- Lecture, "A Normative Approach to Democratic Theory", U.S.C., May, 1981.

f. Peter A. Lupsha, Associate Professor

- Executive Council Western Political Science Association, Denver Meetings, March, 1981.
- Paper: "Organized Crime Evolving I: A Preliminary Analysis of Recent Trends" Academy of Criminal Justice Science Meeting March 11-14, Philadelphia, PA.
- Paper: "The Political Economy of Drug Trafficking: Colombia" Dept. of State Conference on Colombia, November 9, 1981.
- "Organized Crime and Drugs on the Border" Border States Conference on Crime on the Border, Las Cruces, N.M., November 20, 1981.

g. Martin C. Needler, Professor

- Elected to executive council, Western Political Science Association.
- Member, advisory board, Border Research Program.
- Editorial advisory board, Armed Forces and Society.
- Paper at Western Political Science Association meeting, Denver, March: "Fuel and Power: Oil and Politics in Mexico".
- Paper at MALAS meeting, Athens, Ohio, October: "Dependency, Development, and the U.S.".

h. James Lee Ray, Associate Professor, Chairman

- "The 'World-System' and the Global Political System: A Crucial Relationship?" Prepared for delivery at the 1981 Annual Meeting of the International Studies Association, Philadelphia, March 18-21.
- Participant on a series of panels at the Conference on World Affairs, University of Colorado, April 5-10, 1981.
- "The Cuban Path to Dependency Reversal." Prepared for delivery to the National Science Foundation Conference on Dependency Reversal, Las Cruces, New Mexico, October 20-21, 1981.

i. Karen L. Remmer, Associate Professor

- Executive Council, Rocky Mountain Council on Latin American Studies.
- Associate Editor, Latin American Research Review.

j. Philip G. Roeder, Assistant Professor

- International Studies/Foreign Language Curriculum Workshop (Tuscon, December) Presentee, Discussant.

k. Jay B. Sorenson, Professor

- "A New Approach for Assuring Acceptable Levels of Protection From Occupational Safety and Health Hazards," Paper, Southwest Labor Studies Conference, UNM, May 1981.

l. Jeanne L. Wilson, Visiting Instructor

- Presented paper, "Worker Participation in Post-Mao China" American Political Science Association Convention, New York, September, 1981.
- Presented paper "Worker Participation in Post-Mao China," California Regional Seminar, Center for Chinese Studies, University of California, Berkeley, December, 1981.
- Presented paper, "The Role of Women Workers in the Hangzhou Textile Industry," Midwest Political Science Association Convention, Cincinnati, April, 1981.
- Presented paper, "Worker Participation in Management in China: A Case Study of the Hangzhou Textile Industry", Association of Asian Studies Convention, Toronto, March, 1981.
- Paper to be presented, "The Chinese Conception of Industrial Organization," Western Political Science Association Convention, San Diego, March, 1982.

7. Other Professional Activities

a. Tim J. De Young, Assistant Professor

- Consultant to the Water Resources Dept., City of Albuquerque's EIS, Public Participation Component, Phase IIA Wastewater Treatment Facilities Expansion.
- Consultant, Zia Research Associates.
- Reviewer, Scott, Foresman and Co.

b. F. Chris Garcia, Professor, Dean, Arts and Sciences

- Talks: 1) Asbury Methodist Church group, February 22, 1981.
- 2) U.S. Department of Energy, Albuquerque Operations Office, KAFB, September 17, 1981. 3) Last Lecture Series, UNM, October 26, 1981. 4) N.M. Council for the Social Studies, November 6, 1981.
- Media appearance: 1) KNME-TV, "Illustrated Daily" June 17, 1981. KNME-TV, "Illustrated Daily" November 4, 1981.
- Research proposal reviewer, Corporation for Public Broadcasting.

c. Paul L. Hain, Associate Professor

- Reviewer of articles to various professional journals.
- Consultant to KOAT-TV on city elections. Radio and TV appearances on local Albuquerque stations. Talks on state government to "The Story of Albuquerque" and to the Mariners, a local church group.

d. Fred R. Harris, Professor

- Principal Speaker, History of Labor Week (N.M. AFL-CIO, Humanities Council)
- Keynote Address, State Convention, N.M. AFL-CIO.
- Articles on U.S.-Mexico Relations in San Francisco Examiner (2 articles), Miami Herald (1 article), Washington Star (1 article), Albuquerque Journal (3 articles)

e. Peter A. Lupsha, Associate Professor

- Talks: Albuquerque Four Seasons, Noon, July 1, 1981. Bernalillo City Rotary, August 26, 1981, 7PM. KNMZ TV Channel 8, March 30, 1981 Special Report, Analysis of Reagan Assassination Attempt. Channel 13, November 16-20. Analyst-Special Report on Intelligence Services and the Intelligence Community.
- Consultant, Governor's Organized Crime Prevention Committee.

f. Martin C. Needler, Professor

- Paper at Hoover Institution conference, August: "Problems of Latin American Military Regimes".
- Consultant to Hoover Institution, University of Pittsburgh Press, University of Rochester Conflict Forecasting Project.
- Lecture at New Mexico State on Problems of Political Development in Latin America.
- Two lectures at the Foreign Service Institute on Latin American politics, June, 1981.

g. James Lee Ray, Associate Professor, Chairman

- Several appearances and interviews on local radio and television to discuss Middle Eastern politics, and polls and elections for Zia Research Associates.

h. Karen L. Remmer, Associate Professor

--Lecture, "Latin American Politics: South America, Mexico, and the Caribbean," Symposium on the Teaching of Latin American Studies, July 30, 1981.

i. Philip G. Roeder, Assistant Professor

--Off-campus talks to: Downtown Kiwanis, Rio Rancho Kiwanis, U.S. Forest Service (Albuquerque).

j. Jay B. Sorenson, Professor

--Consultant, Analysis Center, Wharton School.

k. Harry P. Stumpf, Professor

--Speaker, Addictive Behaviors Class, School of Nursing, March, 1981.

--Alcoholism Awareness Week, Fall, 1981.

8. Non-teaching University Services

a. Joel E. Brooks, Visiting Assistant Professor

--Member of (interdisciplinary) European Studies Faculty Executive Committee.

b. Tim J. De Young, Assistant Professor

--Member, Public Administration Advisory Committee.

--Member, Public Administration Director Search Committee.

c. F. Chris Garcia, Professor, Dean, Arts and Sciences

--Dean, College of Arts and Sciences.

--Office of School Relations Recruitment Calling Campaign.

--Office of School Relations Home Visitation Program.

--Chair, Search Committee, Southwest Hispanic Research Institute Director.

--Search Committee, College of Education Dean.

--Presidential Scholars Committee.

--Sabbatical Policy Review Committee.

--Legislators' Day Committee.

d. Paul L. Hain, Associate Professor

--Faculty Senate.

--Political Science Executive Committee.

--UNM Adhoc Committee on Evaluation of Administrators, member.

--Advisor to self-selected students.

e. Fred R. Harris, Professor

- Member, Board, UNM Southwest Hispanic Research Institute.
- Faculty Concilium, Latin American Institute, UNM.
- Member, UNM Honorary Degree Committee.
- Member, UNM Teaching Resources Committee.

f. Peter A. Lupsha, Associate Professor

- Director: Graduate Studies Dept. of Political Science.
- Member, Arts and Sciences Graduate Committee.
- Member, Arts and Sciences Curriculum Committee.
- Member, American Studies Advisory Committee.
- Arts and Sciences Dean's Faculty Lobbying Advisory Group.
- Latin American Institute Library Committee.

g. Martin C. Needler, Professor

- Various committees for Arts and Sciences, the Latin American Institute, and the Political Science Department.

h. James Lee Ray, Associate Professor, Chairman

- (Spring 1981) Graduate Director.
- Faculty Senate Curriculum Committee.
- Arts and Sciences Graduate Committee.
- Computer Use Committee.

i. Karen L. Remmer, Associate Professor

- Interdisciplinary Committee on Latin American Studies.
- Title VI Fellowship Screening Committee.
- Advisory Committee, Colonialism and Its Legacy Project.

j. Philip G. Roeder, Assistant Professor

- Undergraduate Advisor, Political Science.
- Chair, Russian Studies Committee.

k. Debra C. Rosenthal, Assistant Professor

- Arts and Sciences Computer Use Committee.
- Political Science Library Liaison.
- Women's Studies Advisory Board.
- Women's Studies Committee.
- Advisor for "Amato for Mayor" student organization.

l. Robert J. Sickels, Professor

- Member, Advisory Committee on Organizational Development.
- Faculty Advisor, New Mexico Students for Liquor Reform.
- Faculty Representative, Harry S. Truman Scholarship Foundation.
- Chairman, Department of Political Science.
- University of New Mexico Senior Day, 1981.

m. Jay B. Sorenson, Professor

--Art and Sciences Human Subjects Committee.

n. Jeanne L. Wilson, Visiting Instructor

--Faculty director for senior honors thesis, Ioana
"McNamara on Chinese industrial reforms."

9. Public Servicea. Paul L. Hain, Associate Professor

--Member, Albuquerque International Airport Advisory Board
(Mayoral appointment).

b. Peter A. Lupsha, Associate Professor

--Member, Albuquerque Committee on Foreign Relations.
--Member, New Mexico Council on Crime and Delinquency

c. Martin C. Needler, Professor

--Represented Albuquerque on Sister Cities trip to Gijon.
--Assistant coach for Youth Soccer program.
--Amnesty International.
--SERVAS

d. James Lee Ray, Associate Professor, Chairman

--Speech to Bernalillo Rotary Club on Middle Eastern politics
February, 1981.
--Speech to Belen Rotary Club on U.S.-Mexican Relations, August,
1981.

e. Debra C. Rosenthal, Assistant Professor

--Volunteer consultant, Albuquerque Rape Crisis Center.

f. Jay B. Sorenson, Professor

--New Mexico Water Quality Control Commission, Member-At-Large.
--Executive Committee, Rio Grande Chapter, Sierra Club.
--City of Albuquerque, Open Spaces Task Force.
--American Lung Society of New Mexico, Air Quality Committee.
--Chairman, U.S. EPA-Albuquerque, Citizens Advisory Committee,
Supplemental Environmental Impact Statement: the disinfection
of sludge by irradiation and the expansion of Plant II waste-
water facilities.

The Report of the Department of Psychology
July 1, 1981 - June 30, 1982
Henry C. Ellis, Chairman

Introduction and Summary. This was again a productive and successful year for the department of psychology. No major changes were made in our undergraduate and graduate programs with the exception of a one-hour required course in research methods. The undergraduate program was reviewed extensively last year. The department continues with the four basic areas of clinical, learning-memory-cognition, psychobiology, and developmental. The department continues its strong honors program and its effort to recruit women and minority graduate students. Despite a large number of undergraduate majors, advising continues to be very effective. We continue to emphasize the strong research orientation of the department which has enabled us to achieve national/international recognition and prominence.

Critical needs of the department continue to be additional space, substantial increase in TA support, enhanced staff-secretarial support in view of our extensive use of soft money, and better support for travel. Our strong effort to obtain additional TA and secretarial support will continue.

We hired two new faculty members this year and had one resignation. With the hiring of a new person in applied psychology, we will return to a staff of 27. We were especially pleased with the new Psychology Department Clinic located on the North Campus, which was completed in June, 1982. It will begin operation in August, 1982. We continue to review our department goals and objectives.

I. General Department Information

A. Undergraduate Education. At the undergraduate level, the department handled a total enrollment of 3,604 students in introductory lectures (of whom 715 participated in the optional additional laboratory hour), and 3,173 in advanced courses (of whom 50 participated in the advanced laboratory courses). The final figures for graduating majors and minors in Psychology for 1981-82 are not yet available. Departmental honors were awarded: Cynthia Colson, Abel Gonzalez, George Keller, Jr., Tamra Kite, William Kuipers, Kathryn McCracken, Kimberly Sue Niper, Barbara Oneil, Stephen Paul, and Marjorie Wilson.

The department offered honors sections of Psychology 102. Special no-credit discussion sections were not offered this year on a volunteer basis in conjunction with introductory psychology due to staffing demands. No substantive changes were made in the undergraduate program, but it is under steady review in relation to educational needs, the personnel available, and student interests. The program is sound and well-designed, and the major problem is offering sufficient sections of the most popular courses to accommodate the demand.

B. Graduate Education. At the exclusively graduate level, the department handled a total enrollment of 396 distributed among 60 registered students. These figures represent a continuation of our policy of maintaining graduate enrollment within a 3:1 student/faculty ratio.

The Master's Degree was conferred upon 4 candidates: Joseph Boroughs, David Goldstein, Mary Johnson, and Robert Mowrer.

The Doctoral Degree was conferred upon 10 candidates:

Vega Lalire Advisors: Richard Harris Samuel Roll	Cooperation and Competition in Sibling and Friend Relationships
Joan Riedle Advisors: Richard Harris Therese Goetz	Quantitative Approaches Applied to Attribution Research and Theory
Rick Baker Advisor: Samuel Roll	Length of Psychotherapy Session and Its Effects on the Therapeutic Process
Lee Davis Advisor: Peder Johnson	The Relationship of Introversion and Extroversion to Inner Speech
Barbara Kane Advisor: William Miller	A Comparison of Two Types of Cognitive Self-Instructional Training and Real Life Practice in the Treatment of Heterosexual-Social Anxiety
Mark Kinnucan Advisor: Thomas Friden	Holistic Processing Versus Feature Analysis in Letter Identification
Sam Leigland Advisor: Douglas Ferraro	Stimulus Control and the Independence of Concurrent Operants
Ricardo Martinez Advisor: Ralph Norman	The Effects of Acculturation on Field Independence of Chicano Children: An Exploration of the Hypothesis of Chicano Field Dependence
Lloyd Crawford Advisor: William Miller	Enriching Marriages: A Comparison of Strategies
Ricardo Gonzales Advisor: Samuel Roll	A Cross-Sectional Study of the Relationship Between Acculturation, Cognitive Style and Intelligence

A chronic problem for our graduate program is financial aid for our graduate students. Our budgeted support for 1982-83 remains at the 1972-73 level of support. For the past four years we have received 2-4 additional TAs, but these increases were always

temporary. While these increases were appreciated the department needs a permanent increase of 4-8 additional TAs. Psychology is significantly undersupported in TAs relative to other laboratory science departments. This is a longstanding problem and hopefully will be corrected with funding formula improvements.

We were able to provide some support for many of our students, with 14 as teaching assistants, 1 as a teaching associate, 6 as research assistants, 6 as NIMH trainees, 1 APA minority fellowship, 2 GPOP fellowships, and 3 with tuition scholarships. Local clinical facilities support several other students. Although the experimental training grant was approved for 1982-83, it was not funded. The loss of 6 support positions from this grant represents a serious loss to the program.

C. Faculty. The faculty of the department numbered 24 during the 1981-82 academic year, composed of Professors Benedetti (sabbatical leave, Fall 1981), Ellis, Feeney, Ferraro, Grice, Johnson, Logan, Rhodes, Roll, Rosenblum and Ruebush; Associate Professors Delaney, Friden, Gluck, Gordon, Harris (sabbatical leave, 1981-82), and Miller; and Assistant Professors Brecht, Dougher, Hodge, Newman-Charlton, O'Grady, Padilla, and Ritchey. Ruebush's primary commitment remained with the Department of Psychiatry. Our faculty FTE was 23.26, not recognizing leaves or sabbaticals. Dr. Hodge was awarded tenure and promoted to Associate Professor and Dr. Miller was awarded tenure. Professor Mark Brecht resigned his position in June 1982 to enter private consultation work. Al Fedoravicius, Therese Goetz, Charlene McIver, and Frances

Steinberg served as part-time faculty members.

Affiliated and/or adjunct faculty during the year were: Drs. J. Cardillo, P. Day, A. Fedoravicius, D. Flammer, T. Giomi, P. Gordon, K. Haaland, M. Harris, L. Libo, G. Luger, J. Schenkel.

New faculty who will join the department in 1982-83 are Assistant Professors Janet Belew, Ph.D. expected, Florida State University, and Rafael Diaz, Ph.D., Yale University.

D. Colloquia. Distinguished speakers in our colloquium series during the year included: W. Doyle Gentry (University of Texas Medical Branch), Joanna Rogers Macy, E. Mansell Pattison (Medical College of Georgia), Herbert S. Terrace (Columbia University), Stanley N. Roscoe (NMSU), Phillip G. Zimbardo (Stanford University), Jerry Otis and Naomi Quenk (Private Practice, Albuquerque), Anthony G. Greenwald (Ohio State University), Carol Nagy Jacklin (Stanford University), Sidney Simon (University of Massachusetts), Janet Adelman (University of California, Berkeley), Daniel C. O'Connell (Loyola University of Chicago), Peter Pohl (University of Washington), and Stephen Suomi (University of Wisconsin) and John Gluck (University of New Mexico).

In addition, Rafael Diaz, Pamela Roberts, Sara Gutierrez, Mark Davis, and Janet Belew were interviewed for faculty positions and all gave colloquium presentations. Overall, this important adjunct to our regular programs was invaluable in adding breadth of exposure. What is needed most in this context is to involve more of our local people, particularly affiliated faculty, in this program. We regret, that in the course of fiscal retrenchment, our modest

colloquium budget was abolished for 1981-82.

E. Sponsored Research.

- a. Of the 24 full-time faculty, there were a total of 15 active grants.
- b. Ten of 24 faculty submitted proposals.
- c. During the year 12 of 24 faculty held sponsored outside grants, for a 50% rate. Faculty supported by outside grants in 1981-82 include Brecht, Ellis, Feeney, Gluck, Gordon, Grice, Johnson, and Padilla. Faculty supported by University biomedical research grants include Dougher, Hodge, Newman-Charlton, and O'Grady.

F. Research Activities. The department continued to be productive in its research efforts. We published 48 major articles or monographs; gave 70 lectures, workshops, or reports; and garnered \$122,825 in extramural support.

The department is engaged in a wide range of research activities which can be only briefly noted here.

Research in human learning, memory, and cognition includes work on visual and verbal elaboration of verbal materials in the context of a Markov model of learning as well as studies of individual differences in learning and memory. New work in speech, perception and psycholinguistics was initiated. In addition, studies of coding and organization in memory, attentional processes in memory, and depth of processing are being conducted. We are conducting studies of letter identification and reading.

And we are conducting studies for the visually handicapped and their adjustment to new environments. At another level we are carrying on studies of simple and choice reaction time. In human factors, we completed studies of conference behaviors. Extensive research in animal learning and behavior, psychopharmacology, and physiological psychology was conducted. Important studies on recovery of brain function are being conducted. Studies of the effects of hormones on brain functioning and eating and drinking, locomotor behaviors, and hyperactivity were conducted. Studies of animal discrimination learning, short-term interference in retention, sensory preconditioning, aversive control, and dominance in animals were continued as part of long-term research programs. There is work being done of the effects of drugs on behavior, including long-term effects of drugs on complex processes. Studies of observational behavior are being reported. Studies of the effects of early experience on subsequent adult behavior are being conducted with a focus toward identifying procedures which might reduce the traumatic effects of early deprivation. In addition, drug studies with epileptics were continued with an emphasis on identifying drugs which might suppress the cortical activity associated with epilepsy. Similarly, we were involved in studies of flashed evoked potentials as they related to migraine headache, and in studies of sleep.

Other studies focused on clinical, developmental, educational, and social psychology. New work on pain, behavior modification of sex deviants, and sex attitudes and guilt was initiated. Research on the behavioral treatment of problem drinkers and alcoholism was

continued, which included a clinical facility to deal with the problems of those who drink excessively. Reports on the role of paraprofessionals in mental health services were reported. A project in the treatment of depression was continued. Our faculty studies the role of dreams, adolescent males' feelings of being understood by their fathers, and the importance of humor in normal behavior. We have long been involved in evaluating the effectiveness of behavior therapy using conditioning procedures. Studies in cross-cultural psychology and ethnic differences in personality were initiated. Studies of social class and ethnic factors in clinical judgments were conducted. We continue to work on grading practices and teacher evaluation.

While this is only a small account of all the research activities of the department, it is illustrative of the wide range of research interests and activities of this faculty. The richness and diversity of our activities should be apparent and we hope for greater support of these activities in the future.

G. Scientific and Professional Societies. Members of the department continued to play an active leadership role in scientific and professional societies. Professor Ferraro served as Past-President of UNM's Sigma Xi, President, SWARM Division of the American Association for the Advancement of Science, and Council Member and Secretary-Treasurer of the Southwestern Psychological Association; Professor Grice was Past-President of the Division of Experimental Psychology of the American Psychological Association; Professor Harris served as Past-President of the Southwestern

Division of the Society for Multivariate Analysis; Professor Padilla served as a member of the American Psychological Association Minority Fellowship Program Committee; Professor Rosenblum served as Past-Chairman of the New Mexico State Board of Psychologist Examiners; Professor Roll was appointed to the New Mexico State Board of Psychologist Examiners; Professor Ellis served as Member of the Executive Board of the Division of Experimental Psychology, as member of the Council of Representatives of the American Psychological Association, and as a member of the Education and Training Board of the American Psychological Association; Professor Miller served as President of Psychologists in Substance Abuse; Professor Newman-Charlton served as Secretary, Psychology section for Southwest and Rocky Mountain Division of AAAS.

In addition, the Psychology faculty continued to play an important role in serving on the editorial masthead of many journals. Serving as regular consulting editors were Professors Brecht, Ellis, Ferraro, Grice, Harris, Johnson, and Logan.

H. Service. Our service activities continued at a very high level. These included the North Central Association, the Rocky Mountain Psychological Association, the Southwestern Psychological Association, the American Psychological Association, the Society of Experimental Psychologists, the National Council of Graduate Departments of Psychology, the American Association for the Advancement of Science, Agora, the Psychiatric Intern Program, Indian Health Service, Programs for Children, International Neuropsychological Society, Esperanza School, Child Guidance Center, Association of

Drinkwatchers, Bernalillo County Head Start, Manzanita Center, Counseling Center, Computer Center, Animal Control Facility, Laguna Pueblo, New Mexico Public Defender's Office, religious organizations, athletic organizations, publishers, cultural organizations, Sandia Base, Albuquerque Roadrunners Club, the New Mexico Science Fair, the New Mexico Psychological Association, the New Mexico Board of Psychologist Examiners, Department of Vocational Rehabilitation, Career Services for the Handicapped, the Veterans Administration, Rio Grande Zoo, hospitals at Las Vegas and Los Lunas, the State Penitentiary, Albuquerque Public Schools, Albuquerque Academy, and Sandia Preparatory School. All of our faculty were involved in one or more of these functions. In sum, we continue to be highly visible at all levels of service functions.

I. Space. Psychology continues to be badly in need of additional space. All available space is currently used. We are unable to adequately house faculty except by using an office of a faculty member who will be on sabbatical and by using space currently occupied by office staff. In turn, office staff will be housed in space currently assigned either to graduate teaching assistants or to a heavily-used seminar room.

Research facilities are now occupied to the hilt. Thus we lack adequate housing for faculty and staff; we are limited to two seminar rooms; we do not have a suitable colloquium room, and our lounge space is used basically as a study room. We anticipate additional space needs for classrooms, offices, and laboratories. All of these needs indicate that a new two-story building,

constructed adjacent to the current building, will be necessary to meet the needs of the department for the next ten years.

J. Administration and Support Staff. Henry Ellis served as chairman and Bill Gordon as assistant chairman during the year. All faculty participated in the administration of the department by serving on various departmental committees. I wish to express my appreciation to Bill Gordon for his able assistance and to the faculty in general for its cooperation and support.

Jan Claus was Office Manager and I wish to express my appreciation to Jan for her effective leadership in the office. Other secretaries serving the department during the year were Terese Haymond, Joan Block, Patti Gegick, and Juliette Lagassé. Ector Estrada continued to supervise the animal facilities and Jim Casaus continued as animal technician. Verlin Williams continued as shop supervisor. In addition, during portions of the year, various students served as part-time clerical or lab assistants.

II. Composite of information requested on individual biographical supplements.

1. Advanced study

Brecht, Mark A.--California State University, Northridge: Continuing education credit--Human Factors.

Ferraro, Douglas P.--Certified in the specialty area of Behavioral Medicine by the State Board of Psychologist Examiners.

O'Grady, Kevin E.--Ph.D. Conferred 24 May 1981.

Certified as a psychologist in the State of New Mexico, 5 December 1981.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel.

Benedetti, David T.--Sabbatical leave, fall semester, 1981 (preparation for full time teaching/research).

Ferraro, Douglas P.--Taught at the Escuela Nacional de Estudios Profesionales - Iztacala, Mexico; Taught at the Dulce Center for Education, Apache Reservation.

Harris, Richard Jerome--Visiting Fellow, School of Psychology, University of New South Wales, Kensington N.S.W., Australia, July 14, 1981 - June 12, 1982.

Padilla, Eligio R.--Dominican Republic: XVIII Interamerican Congress of Psychology, Mexico City: Supervision of ongoing research project.

Roll, Samuel--Travel to Monterrey, Mexico and to Mexico City for data collection and to make presentations.

Rosenblum, Sidney--Educational Leader, Sino-American Clinical Study Tour in Community Mental Health, People's Republic of China, May 21 - June 18, 1981.

3. New scholastic honors, fellowships, etc.

Brecht, Mark A.--Received joint Department of Transportation and National Endowment for the Arts Design for Transportation "Commendation for Design Achievement" for the project "Prototype Development and Testing of a Tactile Directory for the Visually Handicapped."

Ellis, Henry C.--Awarded Fellow Status in the Division of General Psychology, APA; Elected Secretary-Treasurer of the Division of Experimental Psychology, APA; Received Service Recognition Award, Psi Chi, Psychology Honorary Society; Awarded President's Service Recognition Award, UNM.

Ferraro, Douglas P.--Appointed visiting Professor, Universidad Nacional Autonoma, Mexico; Appointed Adjunct Professor, Union for Experimenting Colleges and Universities; Appointed to the Editorial Board, *Experimental Animal Behavior* (an international journal for research and theory); Appointed to the Drug Abuse, Clinical, Behavioral and Psychosocial Research Review Committee of the National Institute on Drug Abuse; Elected Secretary-Treasurer of the Southwestern Psychological Association; Elected to Membership: Society of Behavioral Medicine, Society of Psychologists in Substance Abuse, Biofeedback Society; Elected to Honorary Membership: Phi Eta Sigma. Awarded Presidents' Service Recognition Award, UNM.

3. New scholastic honors, fellowships, etc. (cont.)

- Grice, G. Robert--Honorary Doctor of Science, Washburn University of Topeka, October 11, 1981.
- Hodge, Gordon K.--Service Recognition Award, Psi Chi Psychology Honorary Society.
- Miller, William R.--Phi Kappa Phi national honor society, 1981- . Best Teachers List, UNM, 1981.
- Padilla, Eligio R.--American Psychological Association - National Institute of Education Fellow - 1981-82.
- Roll, Samuel--Fellow status awarded by the Society of Personality Assessment.
- Rosenblum, Sidney--Who's Who in the West, 18th edition.
Who's Who in Child Development.

4. Publications

- Brecht, Mark A.--Preiser, W. F. E. & Brecht, M. The Visually Handicapped and the Built Environment: Tactile Mapping and Building Directories--A Selected Bibliography. Monticello, Illinois: Vance Bibliographies, 1981.
- Ellis, Henry C.--Leight, K. A., & Ellis, H. C. Emotional mood states, strategies, and state-dependency in memory. Journal of Verbal Learning and Verbal Behavior, 1981, 20, 251-266.
- Ellis, H. C. Fundamentos del Aprendizaje y Procesos Cognoscitivos del Hombre. Trillas, S. A., Mexico, 1980. P. 308. Translation of Fundamentals of Human Learning and Cognition, Dubuque, IO.: Wm. C. Brown Publishers (Note: Although this has a 1980 publication date, I did not receive notice of publication until 1981; hence, it has not been previously listed in my biographical supplement. Therefore, it should be counted as a book publication this year).
- Ellis, H. C., & Franklin, J. B. Locus of control in memory. Bulletin of the Psychonomic Society, August, 1981, 58.
- Feeney, Dennis M.--Feeney, D. M., Boyeson, M. G., Linn, R. T., Murray, H. M., & Dail, W. G. Responses to cortical injury: I. Methodology and local effects of contusions in the rat. Brain Research, 1981, 211, 67-77.
- Dail, W. G., Feeney, D. M., Murray, H. M., Linn, R. T., & Boyeson, M. G. Responses to cortical injury: II. Widespread depression of the activity of an enzyme in cortex remote from a focal injury. Brain Research, 1981, 211, 79-89.
- Feeney, D. M., Gonzalez, A., & Law, W. A. Amphetamine restores locomotor function after motor cortex injury in the rat. Proceedings of the Western Pharmacological Society, 1981, 24, 15-17.
- Hall, T. L., Feeney, D. M., & Bankhurst, A. D. The induction and modulation of suppressor cells by predictable versus unpredictable stress. Federation Proceedings, 1981, 7, 930.
- Hovda, D. A., & Feeney, D. M. A single dose of d-amphetamine produces an enduring recovery of locomotion after motor cortex injury in the cat. Neuroscience Abstracts, 1981, 7, 283.
- Linn, R. T., Feeney, D. M., Boyeson, M. G., Dail, W. G., & Murray, H. M. Enhanced somatosensory evoked potentials adjacent to focal injury of rat cortex. Neuroscience Abstracts, 1981, 7, 283.

4. Publications (cont.)

- Dail, W. G., Boyeson, M. G., Feeney, D. M., & Murray, H. M. Evidence for a role for catecholamines in the hemispheric changes in the activity of a brain enzyme following a local cortical injury. Neuroscience Abstracts, 1981, 7, 572.
- Feeney, D. M., Gonzalez, A., & Law, W. A. Haloperidol produces an enduring blockade of recovery of locomotion following motor cortex injury in the rat. Neuroscience Abstracts, 1981, 7, 930.
- Ferraro, Douglas P.--Ferraro, D. P. & Hodge, G. K. (Eds.) Psychology: Contemporary Concepts. Lexington: Ginn, 1981.
- Friden, Thomas P.--Kinnucan, M. T., & Friden, T. P. Visual form integration and discontinuity detection. Journal of Experimental Psychology: Human Perception and Performance, 1981, 7, 948-953.
- Gluck, John P.--Gluck, J. P. Captivity and Behavior: Primates in Breeding Colonies, Laboratories, and Zoos. Edited by J. Erwin, T. Maple, G. Mitchell. The Quarterly Review of Biology, 1980, 55(4), 449-450.
- Gordon, William C.--Gordon, W., McCracken, K., Dess-Beach, N., & Mowrer, R. Mechanisms for the cueing phenomenon: The addition of the cueing context to the training memory. Learning and Motivation, 1981, 12, 196-211.
- Gordon, W., Taylor, J. & Mowrer, R. Enhancement of short-term retention in rats with pre-test uses: Effects of the training-cue interval and the specific cueing treatment. American Journal of Psychology, 1981, 94(2), 309-322.
- Gordon, W. Mechanisms of cue-induced retention enhancement. In N. E. Spear and R. R. Miller (Eds.) Information Processing in Animals: Memory Mechanisms. Hillsdale, N. J.: Lawrence Erlbaum Associates, 1981.
- Spear, N. E. & Gordon, W. Sleep, dreaming and the retrieval of memories. In W. Fishbein and E. Weitzman (Eds.) Advances in Sleep Research, Vol. 4, New York: Spectrum Publications, 1981.
- Logan, F. & Gordon, W. Fundamentals of learning and motivation, 3rd Edition. Dubuque, Iowa: W. C. Brown & Company, Publishers, 1981.
- Grice, G. Robert--Grice, G. R., Canham, L., & Schafer, C. Development of Perceptual & Associative Interference. Bulletin of the Psychonomic Society, 1981, 18, 74.
- Grice, G. R. Accurate Reaction-time Research with the TRS-80 Micro-computer. Behavior Research Methods & Instrumentation, 1981, 13, pp. 674-676.
- Harris, Richard J.--Harris, R. J., Messick, D. M., & Sentis, K. P. Proportionality, linearity, and parameter constancy: Messick and Sentis reconsidered. Journal of Experimental Social Psychology, 1981, 17, 210-225.
- Harris, R. J. (Reviewer) "Richard J. Neueuld's Clinical Quantitative Methods." Educational and Psychological Measurement, 1981, 41, 608-609.
- Hodge, Gordon K.--Ferraro, D. P., & Hodge, G. K., (Eds.). Psychology: Contemporary concepts. Lexington, MA: Ginn, 1981. (An Anthology of readings).
- Hodge, G. K., Boyeson, M. G., & Linn, R. T. Dopaminergic agonists differently affect open-field activity of rats with A10 lesions. Psychopharmacology, 1981, 73, 39-42.
- Hodge, G. K. 6-Hydroxydopamine models of childhood hyperactivity: Effects of amphetamine on swimming and locomotor activity in neonatal rats. Neuroscience Abstracts, 1981, 7, 41. (Abstract)

4. Publications (Cont.)

- Logan, Frank A.--Logan, F. A., & Gordon, W. C. Fundamentals of Learning and Motivation (3rd Ed). Dubuque, Iowa: W. C. Brown Co., 1981.
- Logan, F. A. Operant behavior in transition: FI to FI. Bulletin of the Psychonomic Society, 1981, 16.
- Miller, William R.--Miller, W. R., Pechacek, T. F., & Hamburg, S. Group behavior therapy for problem drinkers. International Journal of the Addictions, 1981, 16, 827-837.
- Miller, W. R. Behavior self-control training for problem drinkers. San Francisco, CA: Proseminar Institute, 1981. (cassette tape).
- Miller, W. R. Review of "Predictors of treatment outcome for alcoholics treated by individualized behavior therapy," by S. A. Maisto, M. B. Sobell, & L. C. Sobell. Abstracts and Reviews in Alcohol and Driving, 1981, 2(7), 8-9.
- Miller, W. R. Neuropsychological considerations in alcoholism treatment. Society of Psychologists in Substance Abuse Newsletter, 1981, 3(3), 19-21.
- Miller, W. R. Controlled substance use. Society of Psychologists in Substance Abuse Newsletter, 1981, 3(2), 15-17.
- Miller, W. R. The oriental syndrome. Bulletin of the Society of Psychologists in Substance Abuse, 1981, 1(1), 11-12.
- Miller, W. R., Gribskov, C. J., & Mortell, R. L. Effectiveness of a self-control manual for problem drinkers with and without therapist contact. International Journal of the Addictions, 1981, 16. (to appear in vol 16 no. 7, pages not yet available)
- O'Grady, Kevin E.--Janda, L. H., O'Grady, K. E., & Barnhart, S. A. Effects of sexual attitudes and physical attractiveness on person perception of men and women. Sex Roles, 1981, 7, 189-199.
- Janda, L. H., O'Grady, K. E., Nichelous, J., Harsher, D., Denny, C., & Denner, K. Effects of sex guilt on interpersonal pleasuring. Journal of Personality and Social Psychology, 1981, 40, 201-209.
- O'Grady, K. E. Probabilities and critical values for z , chi-square, t , and F . Behavior Research Methods & Instrumentation, 1981, 13, 55-56.
- Rhodes, John M.--Ryon, R., Reitta, S., Watson, B., Porch, B., & Rhodes, J. M. Selected Linguistic & Perceptual Abilities of Empirically Derived Sub-Groups of Learning Disabled Readers. Journal of School Psychology, 1981, 19, 2, 152-166.
- Roll, Samuel--Lockwood, J. L., Roll, S. & Matthews, D. B. Two studies of the movement responses in young children. Journal of Personality Assessment, 1981, 45, 250-255.
- Roll, S., Millen, L., & Martinez, R. Common Errors in Psychotherapy with Chicanos. In Richard H. Dana (Ed.) Human Services for Cultural Minorities; University Park Press, Baltimore, 1981.
- Roll, S. & Millen, L. A. A guide to violating an injunction in psychotherapy on seeing acquaintances as patients. Psychotherapy: Theory, Research and Practice. 1981, 18, 179-187.
- Roll, Samuel, Legal Services Corporation (Producer) Preparation and examination of expert witnesses: New York. 1981. (Videotape).
- Ruebush, Britton K.--1980 Annual Report of the Albuquerque Child Guidance Center, Albuquerque Child Guidance Center, 1980.

4. Publications (cont.)

- Delaney, H. D., & Maxwell, S. E. On using analysis of covariance in repeated measures designs. Multivariate Behavioral Research, 1981, 16, 105-124.
- Delaney, H. D., Norman, R. D., & Miller, D. A. An exploration of the verbal encodability hypothesis for sex differences in the Digit-Symbol (Symbol Digit) test. Intelligence, 1981, 5, 199-208.
- Haaland, K. Y., & Delaney, H. D. Motor deficits after left and right hemisphere damage due to stroke or tumor. Neuropsychologia, 1981, 19, 17-27.

5. Other research projects or creative work in progress or completed during period.

- Benedetti, David T.--Submitted paper on Schools of Psychology for next annual meeting of Rocky Mountain Psychological Association (Albuquerque, NM. April 28-May 1, 1982).
- Brecht, Mark A.--Received grant from the National Endowment for the Arts (#12-4242-213, A Tactual Building Directory and Guidance System for the Blind) in the amount of \$20,000 to (1) continue the design and evaluation of blind orienting and way-finding aids and (2) develop a campus-wide orientation system for the visually impaired. (Co-Principal with W. F. E. Preiser, Architecture).
- Received Research Allocations Committee funding in the amount of \$2463 (including department matching funds) to access "Human Interface Problems Associated with Applications of Voice Recognition Capability to Computer-Based Word Processing and Data-Entry Systems." (4 December 1981).
- Received approximately \$8,000 in computer equipment and software from the Office Products Division of Xerox Corp. (Dallas, TX) to study human interface problems associated with the use of voice recognition in office word processing systems.
- Delaney, Harold D.--Pressley, M., Levin, J. R., & Delaney, H. D. The mnemonic keyword method. Review of Educational Research, in press.
- Delaney, H. D., & Starr, M.R. The effectiveness of subject-generated keywords. Journal of Educational Psychology, has been favorably reviewed. A fourth experiment suggested by an editor has been performed and the revised manuscript is being prepared.
- Maxwell, S. E., Delaney, H. D., & Dill, C. A. Another look at ANCOVA versus blocking. Psychological Bulletin, submitted. Requested revisions are currently being made.
- Maxwell, S. E., Delaney, H. D., & Manheimer, J. M. The difference between ANOVA of residuals and ANCOVA. Journal of Educational Statistics, submitted. Currently being revised for re-submission.
- Tyler, S. W., Delaney, H. D., & Kinnucan, M. T. Reading comprehension: Techniques for assessment and optimization. Journal of Educational Psychology, submitted. Requested revisions are being completed.
- Maxwell, S. E., & Delaney, H. D. Scales and statistics: Internal validity versus construct validity. In preparation.
- Delaney, H. D., & Raney, S. D. Are there materials X treatment interactions in keyword method research? In preparation.
- Dougher, Michael J.--"Experimental investigation of the role of aversive conditioning in covert sensitization procedures." December 24, 1980 - December 23, 1981. \$3,515 BRSG (HEW).
- Clinical Effects of Response Deprivation/Satiation Procedures. Submitted to Journal of Applied Behavior Analysis
- An Operant Framework for the Study of Experimental Manipulations of Pain. In progress.
- Anxiety and Pain. In progress
- An investigation of the operative elements in covert sensitization. In progress. Grant application submitted to NIMH-small grant agency. \$10,000.
- Effects of clinical defined and induced depression on pain. In progress.

5. Other research projects or creative work in progress or completed during period. (cont.)

Ellis, H. C.--Continued research on Human Memory involving research into issues of encoding, storage, and retrieval processes. Current research activities are on the topics of: (a) Cognitive Effort and Expanded Processing Capacity in Memory; (b) Emotional Mood State Effects in Memory; (c) Organizational and Encoding Processes in Memory; (d) Role of Individual Differences in Human Learning and Memory; (e) Personality, (Locus of Control) and Skill-Change Factors in Memory and Cognitive Tasks; (f) Perceptual Grouping Factors in Memory.

NIMH Grant (Research Service Award) in "General Psychology"- July 1, 1981 - June 30, 1982. \$46,047. (Part of a five-year grant for 1977-1982 for \$241,000). This generates an 8% overhead return, i.e., indirect costs.

NSF/SRC Grant - "Strategies in Human Learning and Memory" - July 1, 1981 - June 30, 1982. \$9,000.

NIMH Grant - "Basic Processes in Psychology: Cognitive" - If approved the granting period will be July 1, 1982 - June 30, 1987 for \$606,445. (Pending).

Ellis, H. C., & Tyler, S. W. Anxiety effects in memory. In preparation.

Ellis, H. C., & Hunt, R. R. Fundamentals of Human Memory and Cognition. Third Edition, 1982, Wm. C. Brown, in press.

Ellis, H. C. Strategies, effort, and repetition effects in memory. In preparation.

Ellis, H. C. Psychology: An Introduction. Brooks/Cole, in preparation.

Rhodes, J. M., & Ellis, H. C. The effect of cognitive effort: A clinical approach. NATO Proceedings on Neuropsychology and Cognition (Vol. 2), 1981, in press.

Ellis, H. C., Cognitive strategies in human memory. To be submitted to the American Psychologist.

Ellis, H. C., & Franklin, J. B. Memory and personality: External versus internal locus of control and superficial organization in free recall. Journal of Verbal Learning and Verbal Behavior, 1982. Under review.

Feeney, Dennis M.--Feeney, D. M. Spinal Cord: Physiology. In Textbook of Human Stereotaxy, G. Schaltenbrand and A. E. Walker (Ed.), Verlag, Stuttgart, 1982.

HEW - NINCDS Interdisciplinary study of brain trauma. \$198,000, April 1978 - 1982.

MBS - NINCDS Effects of seizures and barbiturate on recovery from brain injury. \$35,948, August 1980 - 1983

MBS - NINCDS Blood pressure modulation of epileptiform activity. \$7,440, August 1980 - 1983

HEW - NINCDS Treatment and mechanisms of recovery from brain injury. \$274,202, Pending May 1982-85

Effects of Oral Delta-9-THC on Evoked Response in Man. Consultant. Pending with NIMH for April 1982-85.

Feeney, D. M. Forebrain lesions produce sensory neglect and suppress seizures and spindles. In Neurophysiology and Psychology: Basic Mechanisms and Clinical Applications, E. Dorchin, M. L. Keitzman and G. Galbraith (Eds.), Academic Press, NY, in press.

Feeney, D. M., & Hovda, D. A. Amphetamine and apomorphine restore tactile placing after motor cortex injury in the cat. Revision submitted to Psychopharmacology.

5. Other research projects or creative work in progress or completed during period.

- Ferraro, Douglas P.--Ferraro, D. P. A questionnaire survey study of the characteristics, needs and goals of returning students at UNM. With Dr. S. J. Odel, an investigation of Piagetian Conservation among Navajos and Apaches living in remote reservation sites.
- Friden, Thomas P.--Veterans Administration cooperative study on aphasia: a comparison of individual and group treatment. In press, Journal of Speech and Hearing. With Wertz, R. T. et al., the cooperative study on aphasia.
- Gordon, William C.--Work was supported by a grant from the National Science Foundation. "Effects of Cueing on Stored Information." September 1, 1979 - January 1, 1980, \$25,000.
- Grice, G. Robert--Second year of three year PHS research grant MH16400 "Principles of Response Evocation." Funding for current year \$35,121.
- Harris, Richard J.--The last-mentioned manuscript reports and integrates the findings of a series of four studies (2 run at UNM and 2 at UNSW) in a continuing (but unsupported) project on the light shed on the equity formula by asking subjects to allocate outcome/input differences, rather than allocating outcomes directly.
- Harris, R. J. Unsupported research continues on the development of multivariate statistical procedures.
- Hodge, Gordon K.--Hodge, G. K. (Principal Investigator) "Dopamine Models of Childhood Hyperactivity." ADAMHA (Approved but not funded, \$9,621).
- Hodge, G. K. (Principal Investigator) "Significance of Dopamine in Animal Models of Childhood Hyperkinesis." Competitive Research Allocations Grant, University of New Mexico (for videotape equipment; \$4,998).
- Hodge, G. K. (Principal Co-Investigator) "Dopaminergic Regulation of Lesion-Induced Hyperactivity in Neonatal and Adult Rats." NIMH-MBS Program (3S06-RR-08139-07S1), University of New Mexico (Approved November 10, 1981, priority 170; two years, began December 1, 1981, \$15,820).
- Hodge, G. K. Biological bases of behavior. Chapter Two. In H. C. Ellis, Fundamentals of Contemporary Psychology. Monterey: Brooks/Cole, under review.
- Johnson, Peder J.--NSF Grant: Modeling Jury Deliberation and Effects of Legal Rules, \$129,750, September, 1980 - February, 1983.
- Logan, Frank A.--Hybrid Analysis of Feedback. (Revised proposal submitted to NIMH for three years at \$20,000 year, although previous proposal was approved for two years at \$24,000 a year and still may be funded).
- Literature and Laws of Learning.
- Newman-Charlton, Jean E.--Completed research on Biomedical Research Support Grant entitled "Differences in the comprehension of oral and written discourse" (Grant period from December 24, 1980 - December 23, 1981) \$1,879.
- O'Grady, Kevin E.--BRSB (HEW) Grant. "A proposal to evaluate physiological and affective sexual arousal in individuals varying in sexual guilt." 23 December, 1980-1982, \$3,850.

5. Other research projects or creative work in progress (cont.)

- O'Grady, K. E. Factor structure of the WISC-R. Paper submitted for presentation at the Southwestern Psychological Association annual convention, Dallas, Texas, April, 1981. Accepted.
- Padilla, Eligio R.--NIMH, \$44,000. Typology of violent death, edn of second year beginning of third year.
- Direccion de Educacion Especial del Gobierno de Mexico, \$2,500,000 (pesos) The Development of WISC-R norms for Mexico, completed December, 1981.
- Direccion de Educacion Especial del Gobierno de Mexico, \$3,000,000 (pesos) Mexican norms for the Kaufman Assessment Battery for Children, August 1981 - June 1982.
- Rosenblum, Sidney--Aspects of family violence, including child and wife abuse, incest, and abuse of the aged.
- Aspects of depression in children.
- Impact of divorce on children.

6. Activities in learned and professional societies

- Benedetti, David T.--Represented UNM at annual meeting of Western Association of Graduate Schools, San Francisco, CA, March 8-10, 1981.
- Represented UNM at meetings of Council of New Mexico Graduate Deans: Socorro, NM, April 3, 1981; Albuquerque, NM, June 29, 1981.
- Brecht, Mark A.--Served as Resource Lecturer on "Tactile Maps and Braille Directories as Mobility Aids for the Blind" at the 1981 Pilchuck Conference on "Human Factors in Environmental Design: Theory, Methods and Applications for the 80s," Seattle, Washington, April, 1981.
- Presented paper entitled, "Using Tactile Directories of Building Interiors as Wayfinding Aids for the Blind: A Prototype Evaluated," at the EDRA 12 Conference of the Environmental Design Research Association, Ames, Iowa, April, 1981 (with W. F. E. Preiser).
- Presented interactive presentation on "Design and Evaluation of a Tactile Building Directory for the Visually Handicapped," at the EDRA 12 Conference of the Environmental Design Research Association, Ames, Iowa, April, 1981. (with W. F. E. Preiser).
- Attended Publications Committee meeting at the 25th Annual Meeting of the Human Factors Society, Rochester, New York, October, 1981.
- Continued as editor of the Bulletin, a national professional publication of the Human Factors Society.
- Delaney, Harold D.--Maxwell, S. E., Delaney, H. D., & Dill, C. A. Another look at ANCOVA versus blocking. Presented to the American Educational Research Association, Los Angeles, April, 1981.
- Martinez, R., Norman, R. D., & Delaney, H. D. A children's Hispanic background scale. Presented to the Rocky Mountain Psychological Association, Denver, April, 1981.
- Dougher, Michael J.--Clinical Effects of Response Deprivation/Satiation Procedure. Presented at meetings of Western Psychological Association, Los Angeles, March, 1981.

6. Activities in learned and professional societies (Cont.)

- An Operant Framework for the study of Pain Behavior. Presented at Annual meetings of the Association for Behavior Analysis, Milwaukee, May, 1981.
- Response Deprivation/Satiation Procedures with Hospitalized Schizophrenics. Presented at Annual Meetings of the Association for Advancement of Behavior Therapy, Toronto, November, 1981.
- Ellis, Henry C.--Executive Board Member, National Council of Graduate Departments of Psychology, 1976 - 1981, service.
- Member of the Education and Training Board of the American Psychological Association, 1981 - 1983, service.
- Member of the Committee on Graduate Education, American Psychological Association, 1981 - 1982, service.
- Member of the Executive Committee of the Division of Experimental Psychology, American Psychological Association, service.
- Elected Secretary-Treasurer of the Division of Experimental Psychology, American Psychological Association, service.
- Completed term as Member of the Council of Representatives (Governing Board) of the American Psychological Association, 1980 - 1981, service.
- Member of Special Task Force to Evaluate Education and Training in Psychology, American Psychological Association, 1981, service.
- Member, Ad Hoc Committee to review Graduate Training in Psychology, American Psychological Association.
- Chairman, Membership Committee, Division of Experimental Psychology, American Psychological Association, service.
- Counselant, National Institute of Mental Health, 1978- , service.
- Consultant, American Psychological Association, Clinical Psychology Site Visitor Program, 1978- , service.
- Member of the following editorial boards: Journal Supplement Abstract Services, American Psychological Association, Human Experimental Psychology Editor, 1978- ; Perceptual and Motor Skills, 1963- ; Psychological Reports, 1963- ;
- Attended annual convention of the National Council of Graduate Departments of Psychology, San Antonio, Texas, February, 1981. Co-Chaired Workshop for New Chairs.
- Attended Meeting of the Executive Board of the Council of Graduate Departments of Psychology, Washington, D.C., March, 1981.
- Attended Meeting on the APA Task Force to Evaluate Graduate Education in Psychology, Washington, D.C., April, 1981.
- Attended Meeting of the Education and Training Board, American Psychological Association, Washington, D.C., May, 1981.
- Attended APA Conference on Aging, Gerontology and Psychology, Boulder, Colorado, June, 1981.
- Feeney, Dennis M.--Attended Society of Neuroscience Meeting
- Attended Minority Biomedical Support Symposium and presented Feeney, D. M., Gonzalez, A., Murray, H. M. & Dail, W. Amphetamine produces an enduring recovery of locomotor function after cortex injury in the rat.

6. Activities in learned and professional societies (cont.)

- Ferraro, Douglas P.--Council Member: Southwestern Psychological Association.
 Secretary-Treasurer: Southwestern Psychological Association.
 Past-President: Psychology Section, Southwestern and Rocky Mountain Division, American Association for the Advancement of Science.
 Past-President: Sigma Xi; the Scientific Research Society, UNM.
 Committee Member: Initial Research Review Committee of the National Institute on Drug Abuse.
 Attended Meeting: Southwestern Psychological Association, Houston, Texas.
 Attended Meeting: American Association for the Advancement of Science Southwestern Rocky Mountain Division, Greeley, Colorado.
 Attended Meeting: Behavioral Medicine Workshop, Albuquerque, New Mexico.
 Attended Meeting: Biofeedback Society of New Mexico, Albuquerque.
 Paper entitled: Neuronal and hormonal correlates of stress.
 Attended Meeting: National Institutes on Drug Abuse/Department of Defense Technical Review on the Effects of Drugs on Human Performance, Washington. Paper entitled: Cognitive effects of Drugs.
- Friden, Thomas P.--"Classifying the aphasia: contributions to patient management." Paper presented to the Academy of Aphasia, London, Ontario, October, 1981. With Wertz, R. T. et al. the cooperative study group on aphasia.
- Gordon, William C.--Attended Rocky Mountain Psychological Association Convention, April, 1981, Denver.
 Attended Meeting: Psychonomic Society Convention, November 1981, Philadelphia.
- Harris, Richard J.--Harris, R. J. The phrasing effect: Easy way out or aversion to negative shares? Presented at meetings of the Australian Psychological Society, Macquarie University (North Ryde, N.S.W.), August, 1981.
 Paper competition Chair, SW Division, Society for Multivariate Experimental Psychology, 1980 - 1981.
 Continued as consulting editor for Journal of Personality and Social Psychology, Social Psychology Quarterly, Journal of General Psychology, Journal of Clinical Multivariate Experimental Psychology.
 Member of the editorial board, Journal of Experimental Social Psychology.
 Refereed numerous journal articles for above journals plus Psychological Bulletin and Psychological Review.
- Hodge, Gordon K.--Chair: Psychological Sciences Section, Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science.
 Continuing Member of Society for Neuroscience: Biofeedback Society of America; American Association for the Advancement of Science; New York Academy of Sciences; American Psychological Association.

6. Activities in learned and professional societies (cont.)

- Hodge, G. K. Etiology and treatment of childhood hyperkinesis: Dopamine stimulants, and biofeedback. In L. L. Butcher (Chair), Affect and action: Relationships between limbic and extrapyramidal function. Symposium presented at the 89th Annual Convention of the American Psychological Association, Los Angeles, 1981.
- Hodge, G. K. Hyperactive neonatal rats: Effects of thyrotropin-releasing hormone and d-amphetamine. Poster presented at the 89th Annual Convention of the American Psychological Association, Los Angeles, 1981.
- Hodge, G. K., & Linn, R. T. Attention and locus of control in hyperkinesis: Nosology and biofeedback. Poster presented at the 89th Annual Convention of the American Psychological Association, Los Angeles, 1981.
- Hodge, G. K. 6-Hydroxydopamine models of childhood hyperactivity: Effects of amphetamine on swimming and locomotor activity in neonatal rats. Poster presented at the 11th Annual Meeting of the Society for Neuroscience, Los Angeles, 1981.
- Johnson, Peder J.--Colloquium: A Post Posneromics Analysis of the Cost of Encoding, Presented at University of Colorado, Boulder, Colorado, December 11, 1981.
- Reviewed Grant proposals for NSF, 1981.
- Logan, Frank A.--Attended meeting of American Psychological Association, Los Angeles, including meeting of Council of Representatives (representing Division 3, Experimental).
- Attended meeting of Society of Experimental Psychologists (member of Executive Committee) Eugene, Oregon.
- Attended Psychonomics meeting, Philadelphia.
- Miller, William R.--Society of Psychologists in Substance Abuse, President, 1981 - 1982.
- Attended annual meeting at American Psychological Association convention.
- American Psychological Association Annual Meeting attended in Los Angeles.
- Attended annual meeting of Association for Advancement of Behavior Therapy in Toronto and presented two papers titled: "Two-year follow-up of bibliotherapy for problem drinkers," and "Why does bibliotherapy work? A controlled study."
- Chaired the symposium, "Effectiveness of bibliotherapy: Empirical research."
- Grand Canyon International Conference on Treatment of Addictive Behaviors program chaired and presented three papers: "How to treat problem drinkers? Recommendations from current research," and "Teaching moderation to problem drinkers" (Workshop), and "What is 'loss of control'? A pilot factor analytic study" (Poster session).
- Newman-Charlton, Jean E.--Presented paper at the 1981 annual meeting (Los Angeles) of the Western Psychological Association entitled: "The effects of focus on the interpretation of ambiguous pronouns."
- Attended the 1981 annual meeting (Philadelphia) of the Psychonomic Society.
- Attended the 1981 annual meeting (Toronto) of the Canadian Psychological Association.
- Became secretary, Psychology section, for South West and Rocky Mountain division of the American Association for the Advancement of Science.

6. Activities in learned and professional societies (cont.)

- O'Grady, Kevin E.--Attended 27th Annual Convention of the Southwestern Psychological Association, 16-18 April 1981, Houston, Texas.
- Padilla, Eligio, R.--American Association of Suicidology, Panel member on the sociocultural antecedents of suicide in the Chicano community, April 1981.
- XVII Interamerican Congress of Psychology, Santo Domingo, Republica Dominican, June 1981.
- Three papers presented: "Perceived Family Environment in the Acculturating Mexican American," "Informant Reliability on the ARSMA," and "WISC-R Scores of Mexican Adolescents: A Preliminary Report."
- Ritchey, Gary H.--Ritchey, G. H., & Armstrong, E. L. "Games children play." Paper presented at the meetings of the Society for Research in Child Development, Boston; April, 1981.
- Roll, Samuel--Invited paper at meeting of American Psychological Association: A model for the role of psychologists in custody decisions.
- Evaluator of "work samples" for the American Board of Forensic Psychology.
- Member of Appeals Committee of American Board of Forensic Psychology.
- Rosenblum, Sidney--Presentation, Psi Chi, University of New Mexico, April 21, 1981.
- Participant, New Mexico Psychological Association, May 8, 9, 1981.
- "DSM III - Uses in Clinical Psychology."
- Presentation, Head Start Workshop, October 15, 1981. "Developmental Milestones of Children."
- Presentation, Head Start Workshop, October 23, 1981. "IEPs and the Developmentally Delayed Child."
- Invited Address, American Statistical Association, Albuquerque Chapter, December 2, 1981. "The Hallmarks of an Established Profession - Ethics and a Code of Conduct."
- Workshop, Albuquerque, Public Schools, December 17, 1981. "Clinical Assessment Using the Vineland and Stanford-Binet."
- Ruebush, Britton K.--Read professional research paper, "A comparison of return and no-return clients to a child guidance center following the initial interview and a waiting period;" American Association of Psychiatric Services for Children, Annual Meeting, San Francisco, November 19-23, 1981.
- Member, Board of Directors, Psychiatric Outpatient Centers of America.
- Chairman, Program and Continuing Education Committee, Board of Directors, P.O.C.A.
- Member, Editorial Committee, POCA Press.
- Attended P.O.C.A. Board of Directors meetings: Houston, February 5-7; New York, June 4-7; Phoenix, September 10-30.
- Member, Nominations Committee, Board of Directors, P.O.C.A.
- Consulting Editor, Journal of Experimental Child Psychology.

7. Other professional activities

- Brecht, Mark A.--Served on Board of Directors for Planning Research Institute, Inc., (Albuquerque, NM), a non-profit environmental design research group.

7. Other professional activities (cont.)

- Human Factors Consulting for Energy, Inc., (Albuquerque, NM)
on human factors aspects of human reliability in nuclear power
plant safety.
- Human factors consulting for Xerox Corporation (Dallas, Texas) on
human interface with computer-based office equipment.
- Presented four departmental and interdepartmental guest lectures
on human factors and environmental psychology.
- Editor, Human Factors Society Bulletin.
- Reviewer, John Wiley & Sons, Inc., Publishers.
- DeLaney, Harold D.--Reviewer--Psychometrika.
- Reviewer, Journal of Educational Psychology.
- Reviewer, JSAS Catalog of Selected Documents in Psychology.
- Reviewer, Psychological Reports.
- Dougher, Michael J.--In-service on Treatment of Sex Offenders at Child
Guidance Clinic.
- TV Panel Discussion on "RAPE" - KNME's Illustrated Daily, December 16,
1981.
- Colloquium - given to Communication Disorders Department, "Behavioral
Treatment of Autism."
- Colloquium - given to Presidential Scholars Club, "Behaviorism".
- Developed the UNM Department of Psychology, Research and Treatment
Program for Sex Offenders. This program has treated over 15
individuals with various sexually deviant behaviors and is the
only treatment facility of this type outside of Santa Fe in the
State of New Mexico.
- Ellis, Henry C.--University of North Carolina: "Cognitive Strategies
in Memory" - Greensboro, N.C., January, 1981.
- Trinity University: "Strategies, Cognitive Effort and Individual
Differences in Memory" - San Antonio, Texas, February, 1981.
- College of William and Mary: "Cognitive Strategies in Memory" -
Williamsburg, V.A., March, 1981.
- University of Maryland: "Strategies and Individual Differences in
Memory" - College Park, Maryland, April, 1981.
- National Institute of Education: "Cognitive Strategies in Memory"
- Washington, D.C., April, 1981.
- Site Visitor, University of Southern California, Los Angeles, CA.
May, 1981. Evaluated the Clinical Psychology Training Program
for the American Psychological Association.
- Consultant for Toulouse Law Firm on Eyewitness Identification Case.
Review grant proposals for the National Institutes of Education.
- Feeney, Dennis M.--Colloquium to Department of Physiology, UNM "Drug
induced recovery of motor function after cortical injury."
- Ferraro, Douglas P.--Grant Reviewing: Initial Review Group, National
Institute on Drug Abuse.
- Special Review Committee for Center Grants, National Institute on
Drug Abuse.
- Special Review Committee for Program Projects, Department of Health
and Human Services.
- Regular Reviewer, Canadian Non-Medical Use of Drugs Directorate.
- Outside Reviewer, National Science Foundation.
- Outside Reviewer, Animal Resources Board, Division of Research
Resources.
- Editorial Board, Experimental Animal Behavior, Journal Reviewer.
- Regular Editor, Psychopharmacology.

7. Other professional activities (cont.)

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- Regular Reviewer, Psychopharmacology.
Regular Reviewer, Pharmacology, Biochemistry and Behavior.
Regular Reviewer, Pharmacology and Experimental Therapeutics.
Occasional Reviewer, Life Sciences.
Regular Consultancies: National Institute on Drug Abuse; Albuquerque Public Schools; Contract Review Board, Department of Health and Welfare; New Mexico Public Defenders Office.
Local presentations: Techniques in Stress Inoculation, UNM Business School; Stress Management, Primary Care Unit, UNM Medical School Behavioral Medicine, Premedical Professionals Club, UNM; Altered States of Consciousness, Santa Fe High School.
Friden, Thomas P.--Member of the operations committee for the VA cooperative study on aphasia.
Gluck, John P.--"Evolution and Psychopathology" Department of Psychology, University of Wisconsin, March 27, 1981.
"The Trap of Leadership" talk given to UNM PO-IFC, September 19, 1981.
"Stress and the Teacher" talk given to staff of the Onate school, October 21, 1981.
Consultant: Rio Grande Zoo, Albuquerque, NM.
Reviewer: The American Psychologist.
Gordon, William C.--Presented paper: Gordon, W. & Wittrup, M. Cue-induced alterations in a training memory. Presented at meetings of the Rocky Mountain Psychological Association.
- Journal Artical Reviews for: Learning and Motivation; Animal Learning and Behavior; American Journal of Psychology; and Journal Supplement Abstract Service.
- Grant reviews for: National Institutes of Health; and National Science Foundation.
- Book Review for: Prentice-Hall. Motivation 2nd Edition, R. C. Beck.
- Harris, Richard J.--Presented colloquium ("So you think you know what's fair?") to School of Psychology, University of New South Wales, August, 1981.
- Guest lecture to 4th-year research methods seminar on "Issues in multivariate statistics."
- Provided statistical and/or social psychological advice to Professor Joe Forgas (group vs. individual decision making), honors student Browyn Partridge (cognitive maps), postgraduate student Richard Morris (prediction of accounting behavior), Professor Austin Adams (training imitation vs. comprehension), and Professor Michael Walker (computation of interaction matrices).
- Hodge, Gordon K.--Referee for: Pharmacology, Biochemistry and Behavior; and Brain Research Bulletin.
- Peer Reviewer for: National Science Foundation; and Southwest Resource Center for Science & Engineering.
- Hodge, G. K. Effects of biofeedback training in reducing symptoms of childhood hyperkinesis. Colloquium presented before the Albuquerque Public Schools Special Education Teachers meeting of February 1981.
- Hodge, G. K. Behavioral and pharmacological strategies for controlling stress: Relazation, biofeedback, and tranquilizers.

7. Other professional activities (cont.)

- Series of training seminars presented for personnel of the State of New Mexico Corrections Department, Education and Training Division of the Corrections Academy, Santa Fe and Albuquerque, November through December 1981.
- Hodge, G. K. Controlling stress. Talk presented to the monthly meeting of Mothers of Twins, Inc., Albuquerque, September 1981.
- Johnson, Peder J.--Editor: Journal of Experimental Psychology: Learning and Memory Psychological Reports
Reviewer for papers in conference: Human Factors and Computer Systems, presented March 1982.
- Miller, William R.--Editorial Consultant to the following journals: Addictive Behaviors; The Behavioral and Brain Sciences; Journal of Studies on Alcohol; Journal of Consulting and Clinical Psychology; Science; Journal of Applied Behavior Analysis; Journal of Abnormal Psychology; Bulletin of the Society of Psychologists in Substance Abuse (Associate Editor).
- Editorial Consultant to the following publishers: Prentice-Hall; and Holt, Rinehart & Winston.
- Advisory Consultation: Promotion and tenure external reviews; University of Oregon, University of British Columbia; Native American Alcohol Abuse Prevention Program, Utah State University; Health Education and Risk Reduction Intervention Project, UNM; New Mexico State Hospital; Henderson Mental Health Center, Las Vegas, Nevada; and Taos Mental Health Center.
- Workshops: Addiction Research Foundation, Toronto; Proseminars, Inc., St. Louis; The Counseling Center - pastoral psychology workshop; Broadmoor Community Church, Colorado Springs; and May camp for First United Presbyterian Church, Albuquerque.
- Consultation on Doctoral Dissertation Projects: Ken Christianson, The Fielding Institute; John Russell, McCormick Theological Seminary.
- Managing Partner to Behavior Therapy Associates, Albuquerque.
- Consultant to BCMHC Alcoholism Division on writing and submitting of major project grant, "Treatment Center for Problem Drinking Women" (NIAAA).
- Numerous radio and TV appearances on various topics.
- Newman-Charlton, Jean E.--Guest Editor: Journal of Verbal Learning and Verbal Behavior.
- O'Grady, Kevin E.--Editorial consultant--Wadsworth Publishing Co.; Prentice-Hall, Inc.
- Padilla, Eligio, R.--Research Consultant, American Guidance Service, Inc., Circle Pines, MN.
- Clinical Consultant, Pecos Schools, Pecos, NM.
- Rhodes, John M.--Neuropsychology Workshop for Albuquerque Public Schools, November 11, 1981.
- Neuropsychology Workshop for Albuquerque Public Schools, November 23, 1981.
- Neuropsychology Workshop for Albuquerque Public Schools, December 15, 1981, (repeat by special request).
- Thursday night Neuropsychology Group (open to professional community).

7. Other professional activities (cont.)

Ritchey, Gary H.--Special reviewer: Journal of Experimental Psychology: Human Learning and Memory.

Reviewer for: MacMillan Publishing Company.

Roll, Samuel--Presentation at the Instituto de Salud Mental in Monterrey, Mexico.

Consultation to Judicial System in State and Federal Courts.

Presentation for the Secretaria de Educacion Especial in Mexico City.

Rosenblum, Sidney--Invited papers presented in Hong Kong and the People's Republic of China: Shanghai General Psychiatric Hospital "Community Mental Health: The Third Revolution" May 28, 1981; Hangchow Medical College, #2, "Head Start: An Example of Primary and Secondary Prevention"; June 1, 1981; Dr. Sun Yatsen, Medical College, Canton "Mental Retardation in the United States," June 4, 1981; Department of Psychiatry, University of Hong Kong "Community Mental Health: "The Third Revolution," June 5, 1981.

Clinical Psychologist (volunteer), Programs for Children, BCMH/MRC.

Clinical Psychologist (volunteer), Programs for Children, BCMH/MRC.

Professional Advisory Board, Children's Psychiatric Center, UNM.

Mental Health Consultant, Head Start, Bernalillo and Sandoval Counties.

Director, Diagnostic Team, EOB Head Start.

Consultant, Albuquerque Public Schools.

Examiner, New Mexico Board of Psychologist Examiners.

Credentials Committee, New Mexico Association on Mental Retardation.

Editorial Consultant: Random House, Prentice Hall, Brooks/Cole, and Holt, Rinehart and Winston.

Presentations to local professional and service groups (6).

Ruebush, Britton K.--Received Rounder's Award and Certificate of

Appreciation, Albuquerque Big Brother's and Big Sister's Agency, Regional Meeting, Big Brothers and Sisters of America, Albuquerque, NM, October 9, 1981.

Off-Campus talks: Identifying Emotional Problems in Teenagers, El Dorado High School Faculty, February 18, 1982;

Anorexia Nervosa, Manzano High School Students, December 9, 1982.

More Off-Campus Talks: Child Guidance Center Services. Sandia Laboratories, September 24, 1982; Child Guidance Center and the United Way, Tomisita Elementary School, October 8, 1982.

Gave a number of other off-campus talks to groups of parents, teachers, and counselors during the year.

Consultant, National Evaluation of Child and Sexual Abuse Programs, Berkeley Planning Associates, Berkeley, California.

8. Non-teaching University Service.

Benedetti, David T.--Acting Dean of Graduate Studies, 2/3 time, spring semester, 1981; Associate Dean of Graduate Studies, full time, May 18, - July 17, 1981.

Spring semester, 1981: Member, ex officio, Faculty Senate Graduate Committee; Member, ex officio, College of A & S Graduate Committee; Member, ex officio, College of Engineering Graduate Committee.

Member, Psychology Department Committees: Faculty Evaluation, Minorities.

Participated in home visitation program of UNM Office of School Relations, February 1981.

8. Non-teaching University Service.

- Benedetti, David T.--Acting Dean of Graduate Studies, 2/3 time, Spring Semester, 1981; Associate Dean of Graduate Studies, full time, May 18, - July 17, 1981.
 Spring semester, 1981: Member, ex officio, Faculty Senate Graduate Committee; Member, ex officio, College of A & S Graduate Committee; Member, ex officio, College of Engineering Graduate Committee.
 Member, Psychology Department Committees: Faculty Evaluation, Minorities.
 Participated in home visitation program of UNM Office of School Relations, February 1981.
- Brecht, Mark--Served on University Campus Planning Committee;
 Served on seven departmental committees, chaired one;
 Served on departmental faculty search committee;
 Co-hosted UNM Psychology Department "Parents Day" open house;
 Advisor to two Junior Honor Students: Judy Davis, Stan Kidd
 Advisor to two Senior Honors Theses: William Barbre's "Effect of Distorted Spectrum Florescent Illumination on Human Physiological and Cognitive Functioning," 1980-1981; and Stephen E. Paul's "Impact of Differential Feedback on Transcription and Composition as a Function of Keyboarding Skill and Type of Document," 1981-1982.
 Member of Doctoral Dissertation Committee for the following: Jerry Manheimer, 1981-1982; Charles Schafer, 1981-1982; Hallador Borjornson, 1979-1981; Glenn Miller, 1980-1981.
- Delaney, Harold D.--University Long-Range Planning Committee;
 Arts and Sciences Human Subjects Review Committee;
 Chair, General Experimental and Methodology Committee;
 Chair, Computer Facilities Committee;
 Member: Learning-Memory-Cognition Area Committee, and Financial Aid Committee
 Chair, Thesis and Dissertation Committees for:
 Emmelienne Schreiner, Jerry Manheimer, Charles Schafer, Douglas Taylor, Rick Graber.
 Member, Thesis and Dissertation Committees for: Joe Burroughs, Whitney Sunderland, Roberta Calderwood, Evalyn Canham, Mary Jean Mariano, Susan Schradle, Jim Allender, Rob Colby, Lloyd Crawford and Honors Thesis Candidate Kim Niper.
 Faculty Advisor, Inter-Varsity Christian Fellowship.
- Dougher, Michael J.--Chair: two PhD Dissertation Committees;
 Chair: Four Thesis Committees;
 Member: Three PhD Committees;
 Member: Two MA Committees;
 Member: Introductory Psychology Committee;
 Member: Admissions Committee
 Member: Faculty Sponsor of UNM Chapter of Psi Chi;
 Member: National Honor Society in Psychology.
- Ellis, Henry C.--Chairman, Psychology Department.
 Member: Provost's Committee on Gerontology and Aging;
 Member: Undergraduate Curriculum Committee;
 Member: Honors Committee;
 Member: General Experimental & Methodology Committee;
 Member: Clinical Committee;
 Member: Learning-Memory-Cognition Committee;
 Member: Financial Aid Committee;
 Member: Graduate Student Employment Committee;
 Member: Minorities Committee;

8. Non-teaching University Service.

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- Member: Psychology/College of Education Committee;
Member: University Affirmative Action Committee, (served on two level three grievance Committees, Chaired one);
Chaired one Dissertation Committee;
Chaired two Master's Committees;
Directed three graduate student problems; one undergraduate problems;
Received Presidential Recognition Award for Participating in the University Outreach Program, 1981;
More generally, supported the University of New Mexico in a positive fashion, with a frequently enthusiastic view of our potential for excellence.
- Feeney, tennis M.--Supervising T. Hall and M. Boyeson for PhD dissertations;
Supervising D. Hovda for MA thesis;
Member: UNM Affirmative Action Subcommittee for the Handicapped.
- Ferraro, Douglas P.--Faculty Senate, Member;
Research Policy Committee, Member;
Arts and Science Promotion Committee; Member;
Research Budget Overhead Subcommittee;
Special Task Force on the Library, Member;
Sneak Preview Student Recruitment, Member;
UNM Ambassadors Program, Member;
Psychology Department Committees, Member.
- Friden, Thomas P.--Member of Research Allocations Committee;
Member: Undergraduate Advisement Committee;
Member: Learning-memory Cognition Committee;
Member: Financial Aid Committee;
Member: Equipment Committee;
Member: Computer Facilities Committee;
Chair: Statistics Committee
Chair: Graduate Admissions Committee;
Chair: Mark Kinnucan's Dissertation Committee.
- Gluck, John P.--Director, Department of Psychology Animal Research Facility;
Director, Mental Health Team, Student Health Center, Consultant (20 hrs/mo);
Chairman: one Dissertation Committee;
Chairman: two Thesis Committees.
- Gordon, William G.--Assistant Chairman, Department of Psychology;
Chairman, Introductory Psychology Committee; Financial Aid Committee; Graduate Learning Committee; Graduate Psychology Committee; Undergraduate Curriculum Committee; Undergraduate Honors Committee; Undergraduate Advisement Committee; Animal Facilities Committee; Department Aims and Goals Committee.
- Faculty Advisor for Undergraduate Psychology Club.
Served on following student committees: Honors Thesis Supervisor for Maggie Wittrup and Kathryn McCracken; Masters Thesis Supervisor for Robert Mowrer; Ph.D. Dissertation Committees: Sam Leigland, Sam Charlton, Ken Leight, and Tom Hall.
- Grice, G. Robert--Member: Learning, Memory and Cognition Committee; Graduate Curriculum Colloquium; Faculty Evaluation; and and the Methodology Committee.
- Harris, Richard J.--Usual Mix of departmental and university committee work; Member of the following: Computer Facilities Committee;

8. Non-teaching University Service

- University Computer Use Committee;
 Chairman of Thesis and Dissertation Committees: Joe Boroughs, Vega Lalire, and Joan Riedle.
- Hodge, Gordon K.--Member: Undergraduate Academic Affairs Committee;
 Member: Introductory Psychology Committee;
 Member: General Experimental and Methodology Committee;
 Member: Psychobiology Committee;
 Member: Graduate Curriculum Committee;
 Member: Animal Facilities Committee;
 Member: Surgery Committee;
 Member: Shop Committee.
- Talk titled: "Drugs and behavior: "Legal" stimulants, diet pills, and childhood hyperactivity." presented before the monthly meeting of the Psychology Student's Association (Psi Chi), University of New Mexico, September 1981.
- Member of the following Thesis Committees: Wendy Law, Whitney Sunderland, and David Hovda.
- Johnson, Peder J.--Chaired Dissertation Committees: Training of Formal Operation Thought in Gifted Children, Gail Beam, 1981, Ph.D.; On the Relationship between Introversion and Extraversion to Inner Speech, Lee Davis, 1981, Ph.D.;
- Logan, Frank A.--BUS Advisory Committee, Undergraduate Advisor, Social Search Committee, and five department committees, two of which I Chaired.
- Miller, William R.--Monthly column "High and Dry" on alcohol information, for Daily Lobo.
 Member: Alcohol Awareness Task Force;
 Member: BRSR Research Review;
 Member: Human Subjects Committee;
 Member: Colloquium Committee (Chair);
 Member: APS Arts and Sciences Teaching Coordination Committee;
 Member: Clinical Trailers Committee;
 Member: Undergraduate Advisement Committee;
- Conference Director for UNM sponsored Grand Canyon International Conference on Treatment of Addictive Behaviors, November 17-21.
- Special Presentations: Last Lecture series; "Faith and Eggs" Morning Faculty group; College of Nursing; BCMHC inservice; Alcoholism Division inservice.
- UNM Calling Campaign for recruitment of new students.
- Departmental guest lectures for Professors Dougher, O'Grady, and Gordon.
- House Staff Retreat, Internal Medicine program, UNM School of Medicine.
- Coordinated speaker program for Alcohol Awareness Week at UNM.
- Represented Department of Psychology at commencement.
- Student research committees chaired: Barbara Kane, Rick Graber, and Lloyd Crawford. (Ph.D. Candidates); Richard Mascolo, Whitney Sunderland, and Kay Buck. (Masters Candidates); Marina DiPilato, and Louise Baca. (Honors Candidates).

8. Non-teaching University Service.

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- Newman-Charlton, Jean E.--Dissertation Committees: Larry Allen, Debbie Harrington, and Mark Kinnucan.
Member of Voting Faculty for: Department of Linguistics: and the Educational Linguistics Doctoral Program, Educational Foundations.
- O'Grady, Kevin E.--I currently serve on four dissertation and six thesis committees, within the department.
I also serve on one thesis committee within the School of Nursing, and two dissertation committees within HPER.
- Padilla, Eligio R.--Various departmental committees, including the Chair of the Committee concerned with minority student recruitment;
Advisor and Dissertation Chairman for Eugenio Galindro;
Committee Member for several students from Psychology and Education.
Search Committee for SHRI director.
- Rhodes, J. M.--Departmental Committees: Undergraduate Advisement, Clinical, Psychobiology, Colloquium and Surgery.
Dissertation Chairman for Rob Colby and Dick Linn.
Dissertation Committee Member for Dan Mathews, Lee Davis, Tom Hall, Eugene Galindro, Jean Lowe, Roberta Krehbiel, and Sandra Tolman.
Master's Thesis Chair for Mitchell Levick.
Master's Committee for David Hovda and David Pogge.
- Ritchey, Gary H.--Monitor, 1981 Orientation Program, Freshman Simulation, Department Representative for 1981 Senior Day Program.
Faculty Advisor for Kim Johnston, Elizabeth Armstrong, and Joy Voyles.
Student Committee member: Mark Kinnucan, Joan Riedle, Antonio Gonzales, Judith Busch, Nilla Vallo and Rob Mower.
Chairman of Dissertation Committee: Lawrence Allen III.
Director, Senior Honors project, for Elizabeth Armstrong.
- Roll, Samuel--Deans Committee on Tenure, Membership on Departmental Committees.
Chairman, Library Committee and of several Dissertation Committees.
- Rosenblum, Sidney--Assistant Chairman, Department of Psychology (January 1981-June 1981).
Director of Clinical Training, Department of Psychology.
Chairman, Financial Aid Committee, Department of Psychology.
Chairman, Athletic Council, UNM.
Committee of Five UNM Faculty.
Admissions, Department of Psychology.
Served on Dissertation Committee for: Lee Davis, Barbara Kane, Ruth Mondlick (Counselor Education).
- Ruebush, Britton K.--Executive Director, Albuquerque Child Guidance Center;
Member of two Ph.D. Dissertation Committees.
Served on the following Departmental Committees: Department of Psychiatry;
Chairman's Advisory Committee;
Standing Search Committee;
Division of Child & Adolescent Psychiatry;
Clinical Psychology Committee;
Developmental Psychology Committee;
Faculty Evaluation Committee;
Graduate Student Employment Committee

9. Public Service

- Brecht, Mark--Vice-president, Board of Directors, Villa de Paz Homeowners Association.
- DeLaney, Harold D.--Choral Ensemble Member and Guest Sermon for Grace Church.
- Ellis, Henry C.--Sponsor, New Mexico Symphony.
- Ferraro, Douglas P.--La Luz Landowners Board of Directors
Presbyterian Hospital Heart Fund.
- Harris, Richard J.--Door to door collecting for the Heart Fund campaign
Race chairman for annual New Mexico T.A.C. (The Athletics Congress)
15-Kilometer Championships.
- Miller, William R.--The Counseling Center: An Interfaith Agency,
Chair, Advisory Board; Personnel Committee; Executive Committee;
Nominating Committee; Conducted extensive organizational
development consultation.
- St. Andrew United Presbyterian Church; Choir Member and Soloist,
Guitarist, Assistant Choir Director; Liturgical dance group
member; Led church officers' retreat; Two-day workshop on
communication at all-church retreat; speaker for senior
high group; coordinated twelve week adult education series on
faith and healing.
- New Mexico Health Systems Agency, Alcohol Legislative Task Force,
member.
- Vista Sandia Hospital, presented workshop on alcoholism prevention.
Gave guest lectures and talks for the following groups:
United Presbyterian Women, Second UPC, Albuquerque;
St. Stephens Methodist Church; Metropolitan Court Probation;
Albuquerque High School; Manzano High School;
National Council on Alcoholism; New Mexico Interchurch Agency; and
Presbytery of Santa Fe.
- Menaul School, led fall retreat for staff.
- Ritchey, Gary H.--PTA presentation on "Effects of Television Viewing,"
January 1981.
Member, Professional Advisory Board, Albuquerque Childbirth
Education Association.
- Roll, Samuel--Presentation about 12 public lectures for community
groups (e.g., fraternal organizations, church groups, etc.).
- Rosenblum, Sidney--Public Affairs Committee, Jewish Community Council
of Albuquerque.
- Ruebush, Britton, K.--Member, United Way Executives Committee.
Member, Board of Directors, Southwest Broadway Youth Development, Inc.

5. Other research projects or creative work in progress or completed during **1137**
period.
- Feeney, D. M., Gonzalez, A., Law, W. A. Amphetamine, haloperidol and experience interact to affect rate of recovery after motor cortex injury. Science. In press.
- Ferraro, D. P. "Cognitive effects of drugs". In M. Walsh (Ed.) Drugs and Human Performance. U.S. Government Printing Office. In press.
- Charlton, S. G. & Ferraro, D. P. Effects of deprivation on the differential conditionability of behavior in golden hamsters. Submitted to Animal Learning and Behavior.
- Law, W. A. & Ferraro, D. P. Effects of amphetamine on fixed ratio responding in motor cortex injured rats. Proceedings of the Western Pharmacological Society.
- Ferraro, D. P. Marijuana, memory and cognition. In N. K. Mello (Ed.) Advances in Substance Abuse, Volume IV. Greenwich: Jai Press, 1982. In preparation.
- Ferraro, D. P. and Charlton, S. G. Constraints on learning or parameter specificity? Experimental Animal Behavior, Volume I. 1982. In preparation.
- Gluck, John--Frank, R. & Gluck, J. P. The long-term effect of early social isolation. Under review, Developmental Psychology.
- Gluck, J. P. & Otto, M. Pain and self injurious behavior. Under review, Science.
- Gordon, William C.--Wittrup, M. & Gordon, W. The alteration of a training memory through cueing. American Journal of Psychology. In press.
- Gordon, W. Motivation and Emotion. In H. Ellis (Ed.) Fundamentals of Contemporary Psychology. Brooks-Cole Publishers. In press.
- Gordon, W. & Wittrup, M. Variations in cueing context and resistance to extinction in the runway. Submitted to Animal Learning and Behavior.
- Mowrer, R. & Gordon, W. The effects of cueing in an "irrelevant" context. Submitted to Learning and Motivation.
- Gordon, W. & Mowrer, R. Cue-induced proactive interference when the training tasks are trained in different contexts. Data collection in progress.
- Mowrer, R. & Gordon, W. A cue-induced partial reinforcement extinction effect. Data collection in progress.
- McCracken, K. & Gordon, W. The effect of extending the cue-context exposure interval on the context addition phenomenon. Data collection in progress.
- Grice, G. R., Nullmeyer, R. S., & Spiker, V. A. Human reaction time: Toward a general theory. Journal of Experimental Psychology: General. In press.
- Harris, Richard J.--Bochner, S., & Harris, R. J. Sex differences in the attribution of socially undesirable traits to out-group members. Submitted to Journal of Personality and Social Psychology.
- Harris, M. B., Harris, R. J., & Bochner, S. Fat, four-eyed and female: Stereotypes of obesity, glasses, and gender. Submitted to Journal of Applied Psychology.
- Harris, R. J., Tuttle, W., Bochner, S., & Van Zyl, T. Is there an equality norm? Explorations of explanations of the phrasing effect. Being typed for submission to Journal of Personality and Social Psychology.

5. Other research projects or creative work in progress or completed during period. (continued)

- Hodge, Gordon K.--Hodge, G. K. (Principal Investigator) "Dopamine Lesion Models of Childhood Hyperactivity." Submitted to NIH (3 years, to begin 4-1-82; \$95,072).
- Hodge, G. K. & Hall, T. L. Repeated electroconvulsive shocks enhance amphetamine-induced hyperactivity but reduce asymmetric rotational side preferences in rats. Submitted to Pharmacology, Biochemistry and Behavior.
- Linn, R. T., & Hodge, G. K. Need for considering locus of control in childhood hyperactivity. Submitted to Journal of Consulting and Clinical Psychology.
- Linn, R. T., & Hodge, G. K. Use of locus of control, attention tests, and the Conners Parent Questionnaire for diagnosis and design of treatment for childhood hyperactivity. To be submitted to Journal of Abnormal Child Psychology.
- Hodge, G. K., & Linn, R. T. EMG biofeedback training increases attention span and promotes feelings of internal locus of control in hyperactive children. To be submitted to Journal of Consulting and Clinical Psychology.
- Johnson, Peder J.--An analysis of the relationship between reading proficiency and complete and partial report performance, J. Martinez, and P. J. Johnson, Reading Research Quarterly, in press.
- Attentional Demands of Letter Encoding, submitted to Acta Psychologica.
- Logan, Frank A.--Principles of Learning (manuscript currently in use and under review.)
- Miller, William R.--Miller, W. R. Abnormal behavior. In H. C. Ellis (Ed.), Fundamentals of contemporary psychology. Monterey, CA: Brooks/Cole In press.
- Miller, W. R., & Munoz, R. F. How to control your drinking. (Rev. ed.) Albuquerque, NM: University of New Mexico Press. In press.
- Miller, W. R. When is a book a treatment? Bibliotherapy for problem drinkers. In P. E. Nathan & W. M. Hay (Eds.), Clinical case studies in the behavioral treatment of alcoholism. New York: Plenum. In press.
- Miller, W. R., & Saucedo, C. F. Neuropsychological impairment and brain damage in problem drinkers: A critical review. In C. J. Golden, J. A. Moses, Jr., J. Coffman, W. R. Miller, & C. F. Strider (Eds.), Clinical neuropsychology: Sequelae of neurological and psychiatric disorders. New York: Grune & Stratton. In press.
- Ogborne, A. C., Annis, H. M., & Miller, W. R. Discriminant analysis and the selection of patients for controlled drinking programs: A methodological note. Journal of Clinical Psychology. In press.
- Miller, W. R. Treating problem drinkers: What works? The Behavior Therapist. In press.
- Miller, W. R. Review of "The course of alcoholism: Four years after treatment," by J. M. Polich, D. J. Armor, & H. B. Braiker. The Behavior Therapist. In press.
- Miller, W. R. At last! The behavior therapy cookbook. Review of "Clinical procedures for behavior therapy," by C. E. Walker, A. Hedberg, P. W. Clement, & L. Wright. Contemporary Psychology. In press.

5. Other research projects or creative work in progress or completed during period. (cont.)

- Miller, W. R. Teaching responsible drinking skills. In P. M. Miller & T. D. Nirenberg (Eds.), Prevention of alcohol abuse: Current issues and future directions. New York: Plenum. In press.
- Miller, W. R., Sunderland, W., & Harquill, J. Ten-year follow-up of heroin addicts treated by methadone. Submitted to the National Institute on Drug Abuse. Project was approved but not funded; eligibility period for funding expired in 1981. (\$9,965).
- Miller, W. R. Treatment center for problem drinking women: National Institute on Alcohol Abuse and Alcoholism. Originally submitted in 1978; resubmitted with requested revisions in 1979; resubmitted through Bernalillo County Mental Health/Mental Retardation Center Alcoholism Division in 1981 with further revisions. Approved but not funded due to shift to state block grant funding system. Referred to State of New Mexico for consideration among mental health expansion requests. (\$230,782)
- Miller, W. R. Multidimensional assessment of alcoholism. Submitted to the Scientific Advisory Council Research Grant Program of the Distilled Spirits Council of the United States. Disapproved without explanation (which is this foundation's policy). (\$14,990)
- Miller, W. R., Hedrick, K. E., & Orlofsky, D. R. The Helpful Responses Questionnaire: An objective instrument for measuring accurate empathy. Submitted to Counselor Education and Supervision.
- Schmidt, M. M., & Miller, W. R. Amount of therapist contact and outcome in a multimodal depression treatment program. Submitted to Journal of Consulting and Clinical Psychology.
- Miller, W. R., & Baca, L. M. Long-term effectiveness of controlled drinking therapies. Submitted to Journal of Consulting and Clinical Psychology.
- Miller, W. R., Katz, N. W., & Koons, A. Behavioral, cognitive, and hypnotic procedures in the treatment of depression. Submitted to Journal of Consulting and Clinical Psychology.
- Miller, W. R. Controlled drinking: A history and critical review. Submitted to Journal of Studies on Alcohol.
- Dipilato, M., & Miller, W. R. The effectiveness of relaxation and systematic desensitization in the treatment of nightmares.
- Miller, W. R., & Hedrick, K. E., & Taylor, C. A. Relationship between alcohol consumption and related life problems before and after behavioral treatment of problem drinkers.
- Buck, K., & Miller, W. R. Effectiveness of bibliotherapy with problem drinkers: A dismantling study.
- Miller, W. R. Alcohol and problem drinking. (Book outline completed, several contract offers received, writing in progress)
- Miller, W. R. Living as if: A psychologist looks at faith. (Initial draft completed; under review)
- Marlatt, G. A., & Miller, W. R. The Comprehensive Drinker Profile. (Instrument completed; validation studies and manual preparation underway; currently under review)
- Miller, W. R., & Rhodes, J.M. The psychology of personal adjustment (Initial book outline completed; revision and sample chapters being prepared for review).

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ADDENDUM

5. Other research projects or creative work in progress or completed during period.

- Newman-Charlton, Jean E.--Emphasis and expectation (to be submitted to the Journal of Verbal Learning and Verbal Behavior)
Some effects of focus on the interpretation of ambiguous pronouns (to be submitted to the Journal of Verbal Learning and Verbal Behavior)
Interference effects in phoneme detection: Absence makes the task grow harder (co-authored with T L. Kite and G. S. Dell) Submitted abstract to Rocky Mountain Psychological Association for 1982 annual meeting.
Currently writing article of same name to be submitted to Memory & Cognition.
- O'Grady, K. E. "Affect, sex guilt, gender, and the rewarding-punishing effects of erotic stimuli": A reanalysis and reinterpretation. Journal of Personality and Social Psychology. In press.
- O'Grady, K. E. Sex, physical attractiveness, and perceived risk for mental illness. Journal of Personality and Social Psychology. In press.
- O'Grady, K. E. Convergent and discriminant validity of Russell's revised Wechsler Memory Scale. Submitted to the Journal of Consulting and Clinical Psychology.
- O'Grady, K. E. Measures of explained variance: Cautions and limitations Submitted to Psychological Bulletin.
- O'Grady, K. E. Regression estimation of missing data. Behavior Research Methods & Instrumentation. In press.
- O'Grady, K. E. & Janda, L. H. Sex guilt: A critical review. Under revision.
- O'Grady, K. E. A comparison of Edwards' and Marlowe-Crowne's Social Desirability Scales. In preparation.
- O'Grady, K. E. Sex bias, psychodiagnosis, and the MMPI. In preparation.
- O'Grady, K. E. Sex, physical attractiveness, and maladjustment. In preparation.
- O'Grady, K. E. Sex guilt and atonement. In preparation.
- O'Grady, K. E. An empirical evaluation of Differential Emotions Theory. In preparation.
- Padilla, Eligio--APS/SRC--"A strategy for increasing the pool of potential scientists and engineers among Hispanics". Approved and funded by the Board of Education and SRC, but blocked by the administration of APS.
- Rhodes, John M.--John M. Rhodes and Henry C. Ellis. The effect of Cognitive Effort: A Clinical Approach. In press, NATO publisher.
- John M. Rhodes. A Brief Note on the Integration of Behavioral Modification with a Sullavanian Approach to Psychotherapy. (Submitted to Psychiatry.)
- Age Norming a Luria Type Neuropsychological Screening Evaluation for Children 10-15. In progress with K. Crumley, G. Peterson, of CPC, Bill Watson of Spec. Education, Claire Hummel and staff of APS - Joint Principal Investigators.
- Time Perception in Introverts and Extroverts: An electrophysiological approach. Funded by UNM, in progress.
- Ritchey, Gary H.--Ritchey, G. H. Pictorial detail and recall in adults and children. Journal of Experimental Psychology: Human Learning and Memory, in press.
- "Image detail and recall: Age or population effects?" Manuscript prepared.
- "Elaboration, distinctiveness, and recognition time as determinants of pictorial recall." Manuscript in preparation.
- "Sex differences in spatial manipulation ability in a competitive game." Data collected and being analyzed.

ADDENDUM

5. Other research projects or creative work in progress or completed during period.

- Roll, Samuel--Padilla E. R., Roll, S. and Gomez-Palacio, M. Bias in the intellectual assessment of Mexico Children. Interamerican Journal of Psychology. In press.
- Meigoza, B., Roll, S. and Baker, R. Conformity and cooperation in Chicanos: The case of the lost or missing susceptibility to influence. Journal of Community Psychology. In press.
- Roll, S. The MMPI, the Arrow-Dot and the Hand Test as Differential Predictors of Child Neglect and Child Abuse. In preparation.
- Roll, S. Custody decisions and the measurement of attachment. In preparation.
- Padilla E. R., Roll, S. and Gomez-Palacio, M. WISC-R for Mexico: Norms and a new version. In preparation.
- Grant submitted to the Department of Health and Human Services: Public Health Service. "Behavioral Intervention in the Case of Diabetic Children" Co-principal Investigator - Professor Ellen Kaufmann. \$220,586. Under review.
- Ruebush, Britton K.--Research paper, "A comparison of return and no-return clients to a child guidance center following the initial interview and a waiting period." Submitted for publication.
- Invited article, "Anxiety." International Encyclopedia of Education. In preparation.

6. Activities in learned and professional societies.

- Ellis, Henry C.--Attended Meeting of the American Psychological Association, Los Angeles, CA, September, 1981. Presented paper at Symposium on Experimental, Industrial, and Military Psychology.
- Attended and Chaired Meeting of the National Council of Graduate Departments of Psychology, Los Angeles, CA, September, 1981.
- Attended Meeting of the Committee on Graduate Education, American Psychological Association, Washington, D.C., September, 1981
- Attended Meeting of the Education and Training Board, American Psychological Association, October, 1981.
- Attended Meeting of the Psychonomics Society, Philadelphia, PA. November, 1981. Presented paper entitled "Locus of Control and Memory."
- Grice, G. Robert--Attended Meeting of Society of Experimental Psychologists, April 1981. Presented paper.
- Attended Meeting of Psychonomic Society, November 1981. Presented paper. Served as immediate past-president of Division of Experimental Psychology at meeting of American Psychological Association, August 1981.
- Harris, Richard J.--Harris, R. J. Pinning down the equity formula. Presented at West Coast Conference on Small Group Research, Portland, Oregon, March 18, 1981.
- Harris, R. J. Following up a significant multivariate analysis of variance. In P. R. Swank (Chair), Applications of multivariate techniques, Ninth Annual Users' Workshop of the Southwestern Division, Society for Multivariate Experimental Psychology. Presented at meetings of the Southwestern Psychological Association (SWPA), Houston, April 17, 1981.
- Harris, R. J. So you think you know what's fair? Invited paper, Southwestern Psychological Association meetings, Houston, April 18, 1981.

	70-71	71-72	72-73	73-74	74-75	75-76	76-77	77-78	78-79	79-80	80-81	81-82
<u>Faculty Information</u>												
Teaching faculty (total)	17	18	20	20	19	20	24	26	27	27	25	24
Professors	7	7	7	8	8	11	11	11	12	12	10	11
Associate Professors	5	5	6	6	6	5	5	5	4	5	5	6
Assistant Professors	5	6	7	6	5	4	8	10	11	10	10	7
Budgeted FTE faculty	14	16.3	18.3	18.3	17.8	19.1	20.87	22.53	24.88	24.78	19.26	23.26
TE faculty minus leaves	14	14	16.3	16.3	15.8	18.6	19.87	21.19	23.88	23.28	18.26	21.76
Faculty turnover (total)	1	0	0	2	1	0	0	1	1	4	1	0
Resignations	0	0	0	2	1	0	0	1	1	2	1	0
Tenure denials	1	0	0	0	0	0	0	0	0	1	0	0
Deaths and Retirements	0	0	0	0	0	0	0	0	0	1	0	0
<u>Number of faculty engaged in</u>												
Lower division teaching			11	11	11	11	10	10	19	19	19	18
Upper division teaching			14	16	16	18	20	22	23	23	26	23
Graduate teaching			16	19	14	19	17	20	22	24	24	21
Thesis/dissertation supervision			9	12	14	13	15	19	17	18	18	15
<u>Undergraduate Education</u>												
Introductory enrollment	3565	3580	3728	3318	3577	3745	4025	3756	4003	3428	3291	3604
Optional laboratories	1648	1883	1844	1401	1537	1327	1046	1117	1162	947	918	715
Advanced enrollment	3324	4019	4749	4902	4424	4059 ^a	3797	3980	3642	3279	2772	3173
Optional laboratories	209	151	159	159	158	163	110	98	116	77	60	50
Graduating Majors	70	64	99	107	133	108	84	81	78	86		
Graduating Minors	50	31	63	44	71	78	48	66	88	39		
<u>Graduate Education</u>												
Graduate enrollment	300	413	459	432	372	362	362	384	391	361	328	396
Graduate assistants (budgeted)	11	11	12	13	14	12	12	12	12	12	12	14
Graduate assistants (authorized)	13	14	14	13	14	13	16	14	14	14	14	14
Research assistants	12	13	14	15	13	12	6	5	4	8	3	6
Fellowships and Trainees	14	12	11	8	8	9	7	18	19	18	7	9
Merit Scholarships			4	5	4	2	1	2	2	2	3	3
Master's Degrees	3	9	7	4	9	7	10	14	10	8	4	4
Doctoral Degrees	8	6	5	13	4	7	9	7	6	6	12	13
Applications received			250	154	195	250	350	267	223	149	182	182
Offered Admission			36	33	27	55	40	45	45	32	37	37
Accepted Admission			20	19	6	13	13	10	17	11	15	15
Graduate Students			55	56	55	50	56	51	52	62	59	61
<u>Research Activities</u>												
Books and Articles	32	25	29	20	36	26	34	40	28	48	50	48
Lectures and Reports	30	35	57	64	61	76	86	92	88	73	91	70
Extramural support (000)	\$306	\$284	\$235	\$260	\$300	\$268	\$138	\$197	\$214	\$300	\$253	\$122
<u>General Information</u>												
TE Staff	2	2	3	3.3	4.4	5.2	6.3	9.8	9.8	8.8	7.5	7.5
Department Budget (000)	\$282	\$322	\$359	\$383	\$412	\$467	\$564	\$596	\$671	\$694	\$753	\$814

Grade Distribution Figures are no longer available

Actually no decrease--Psy. 201 not included as taught by Math Dept.
Totals not yet available

THE REPORT OF THE DEPARTMENT OF SOCIOLOGY

(July 1981 to June 1982)

PEDRO R. DAVID, CHAIR

I. GENERAL DEPARTMENTAL INFORMATION

The 1981-82 academic year was a successful year of continuing growth for the Sociology Department at both the undergraduate and graduate levels. Under the graduate program, a Master's Program in Criminal Justice Administration was approved and it involves at the graduate level the priorities of the Department existing already for many years in the area of criminology and deviance (see Appendix^A). As part of the same orientation, a new interdisciplinary program on criminal justice at the baccalaureate level has been approved by the Sociology faculty and is being presently sent to the Dean of Arts & Sciences and approval committees of the University (see Appendix^B). In relation to the Latin American orientation, the Department has given approval to a dual degree in Latin American Studies and Urban Planning (see Appendix^C). The National Institute of Mental Health Training Grant in Deviance and Criminology, is entering its final phase and it is expected that with remaining funds, the student-trainees will be able to continue for the academic year 1982-83. The success of the program has exceeded previous expectations and its benefit for the department as well as for the students has been extensively documented. We are happy to report that we are working now toward a new grant that will be submitted during the course of the academic year related to the area of mental health and deviance problems.

Recruitment.

The Department has successfully completed its search for a new chairman-senior professor. Since Professor David is completing his nine years of tenure as Chairman, an extensive search was conducted for a replacement and after the initial interviewing of candidates, Professor H. Laurence Ross was appointed. He is a distinguished legal sociologist, very well known for his research on sociology of traffic violations and his bibliography includes substantial contributions to the area. He is a scholar of national and international reputation and the department has unanimously supported his appointment. Professor Ross will be here during two months of the academic year 1982 and will definitely come in June 1983.

Curriculum

The new departmental brochure was prepared listing required courses and new offerings of the department and faculty members' (see Appendix).

Hired on a part-time basis for the Fall 1981 semester were Uri Mendelberg, Estevan Flores, Ralph Blankenship, Denise Heller-Paz, Richard Boyle, Johanna Major, Sandra Weber, Angela Delli-Sante, Felipe Gonzales, and Jeremy Brown. The part-time faculty for the Spring 1982 semester were Ralph Blankenship, Peter Evans, Estevan Flores, Felipe Gonzales, Johanna Major, Uri Mendelberg, Sandra Weber, Katharina Tami, and Brigitte Goldstein.

Pedro R. David was on leave of absence during the Fall 1981 semester to consult with the United Nations preparing a report on countries with high crime ratios for the Crime Prevention and Criminal Justice Branch of the United Nations program in Vienna, Austria.

In accordance with the agreement signed by the University of New Mexico and Universidad Autonoma de Mexico, Patrick McNamara was an exchange teacher at the Universidad Autonoma Nacional de Mexico, Mexico City.

Richard F. Tomasson was on sabbatical during the Fall 1981 semester, and travelled to Stockholm, Bonn, and the Hague for two months in conjunction with a comparative study of social security in Sweden, the Netherlands, the Federal Republic of Germany, and the United States.

During the leave of Chairman David, Professor Gilbert Merckx was Acting Chairman with Professor George Huaco assisting.

Graduate Information

We have twenty-eight graduate students enrolled in the department. Angelina Casillas received a graduate tuition fellowship; our first Ph.D. candidate, Joann Weiss, successfully defended her dissertation; Stephanie Amedeo, Brigitte Goldstein and Sandra Tyler passed their Ph.D. oral examinations; Twila Turpen and Tomas Atencio are both writing their dissertations.

Carol Lujan, an N.I.M.H. student-trainee received a \$250 Mountain Bell grant, and was selected to receive an American Sociological Association Fellowship for the 1982-83 academic year.

During the 1981 Fall semester, the department hired as teaching assistants: Stephanie Amedeo, Rose Mary Clark, Brigitta Goldstein, Pamela Page, and Ruth Reidy. The teaching assistants for the Spring 1982 semester were: Stephanie Amedeo, Rose Mary Clark, Pamela Page, Sharon Phillips-Conniff, and Ruth Reidy.

Report of the National Institute of Mental Health Grant

The National Institute of Mental Health Criminology Traineeship Program successfully completed its fifth and final year with seven students receiving funding: Tessie Naranjo, Steve LaBoueff, Carol Lujan, Barbara Reed, Norma Wilkes, Sandra Tyler and Guillermo Grenier. Some provisions are now being made to carry over unexpended funds to the coming year for five stipends to continue these students through their Ph.D. comprehensives and, in some cases, their dissertations. A new proposal will be made to N.I.M.H. for a new training grant to begin in the Fall of 1983.

Promotions

Associate Professor Gilbert Merckx was promoted to Full Professor, Richard Coughlin and Philip May to Associate Professor. Gary LaFree and Paul Steele have had renewals for second three-year term contracts.

Pedro R. David received recognition for his ten years as a UNM Professor. Jule Ensminger-Gargoura, Departmental Secretary with the sociology department since February 1972 was promoted to Staff Assistant.

Cynthia Self-Cesarz, part-time Clerical Specialist IV with the department since June 1978 was promoted to Clerical Specialist V and to full-time.

In November, 1981, the department held a coffee for Dr. Theodore Abel, Professor Emeritus, in honor of his 86th birthday.

Departmental Committees

Executive:	Pedro David (Chair), George Huaco, Harold Meier, Richard Coughlin
Graduate:	George Huaco (Chair), Nelson Valdes, Paul Steele
Curriculum:	Richard Coughlin (Chair), Susan Tiano, Philip May
Recruitment:	Pedro David (Chair), Richard Tomasson, Gary LaFree, Susan Tiano

As a result of the request of the United Nations, Pedro R. David has received a leave for two years to perform the functions of Interregional Adviser for Crime Prevention and Criminal Justice on a world-wide basis.

II. FACULTY ACHIEVEMENTS

Bogart, Dodd H.

Research

Progress on the "Threat from Species
O: A Study in Organizational
Ecology"

Bogart, Dodd H.
(continued)

Activities

Faculty Senate; Budget Review
Committee; Human Subject's
Committee; Undergraduate Adviser.

Coughlin, Richard C.

Book

A book contract with University of
New Mexico Press "The Physically
Impaired in Society."

Articles

Submitted for publication: "Payroll
Taxes for Social Security". In
progress: "Deviance and Disability"
and "Welfare Fraud and Income Tax
Evasion."

Activities

Presented a paper "The Social Control
Functions of Welfare", Southwestern
Sociological Association Meetings,
Dallas, TX, March 1981; field work
at the Social Security Administration
Office of Research and Statistics,
Washington, D.C., June 1981;
Panel discussion "Private Charities
Under Pressure," Illustrated Daily, KNME
TV, July 1981; Lecture on "Public
Opinion and Public Policy," University
of Texas at Dallas, March 1981;
Consultant to La Mesa Presbyterian
Church, Apartment Services Project;
Sociology Curriculum Committee
Chair; Member of Sociology
Executive Committee; Undergraduate
Advisor for Sociology Department;
United Way Representative; Volunteer
consultant to Big Brothers/Big
Sisters of Albuquerque.

David, Pedro R.

Articles

"Argentina" in a volume edited by
Stewart, Lorne, J., Justice and
Troubled Children Around the World,
New York, University Press, Vol.
II, pp. 1-35; "Juvenile Justice in

David, Pedro R.
(continued)

the Americas," Annals of the First PanAmerican Congress of Criminology, Buenos Aires, 1981, 40 pages; "Crime and Development" in the volume Cities and Criminality, International Society for Social Defense, Tralonica, Greece, September 1981.

Research

Completed research on "Ten Countries with the Highest Ratio of Crime in the World," United Nations, Vienna, Austria, August-December, 1981. Research aimed at showing the impact of modernization on problems of crime and criminal justice.

Activities

Leave of absence without pay during Fall 1981 semester, and served as Advisor to the United Nations Crime Prevention and Criminal Justice Branch, Vienna, Austria; Appointed Secretary General to the International Society for Social Defense, Milano, Italy, October 1981; Chaired meeting on "Crime and Development in Latin America", American Society of Criminology, Washington, D.C., November 1981; Lecture on "Cuestiones Inter-culturales en el Delito de Adulterio" Universidad Autonoma de Ciudad Juarez, Juarez, Mexico, April 30, 1981; Lecture on "The United Nations and its Emphasis on Crime and Development" given to the joint special meeting of the Four World Criminological Societies: 1) the International Penal and Penitentiary Foundation, 2) the International Society for Social Defense; 3) the International Society of Criminology and 4) International Society of Penal Law, Milano, Italy, December 18, 1981; Lecture on "Crime and the United Nations," Buenos Aires, 17 August, 1981; paper presented on "Crime and Development" at

David, Pedro R.
(continued)

the Meeting of International Society of Social Defense, Tsalonica, Greece, September 2-8, 1981; Advisor to United Nations Latin American Institute for the Prevention of Crime and Treatment of Offenders - in that capacity travelled to Mexico, Costa Rica, Panama, Columbia, Venezuela, Ecuador, Peru, Argentina, and Uruguay during June and July of 1981 advising governments of the region on problems of crime prevention and criminal justice; TV and radio appearances in Albuquerque, NM on crime prevention in the state and problems of correctional administration; member of UNM Task Force on Global 2000 Report; member of Southwest Hispanic Research Institute Policy Committee; member of the Team for Exchanges Between UNAM (Mexico) and UNM - travelled to Mexico; coordinate activities during Spring semester 1982 between state of New Mexico's Department of Corrections and UNM.

Honors

Honorary Professor-Universidad Autonoma of Ciudad Juarez, Juarez, Mexico, April 1981.

Huaco, George A.

Book Reviews

Marx and Wittgenstein, by David Rubinstein in Sociology: Review of New Books, Spring 1981; essay "Research in Sociology of Knowledge, Sciences and Art" in Contemporary Sociology, May 1981; The Social Production of Art by Janet Wolf, in Sociology: Review of New Books, Fall 1981.

Activities

Graduate Advisor and Chair of Graduate Committee, Sociology Department; Arts and Sciences Promotion Advisory Committee; Member of Faculty Senate.

LaFree, Gary D.

Articles

"Official Reactions to Social Problems: A Case Study of Police Decisions in Sexual-Assault Cases," Social Problems 28(June 1981):582-594;
 "Male Power and Female Victimization: Toward a Theory of Interracial Rape," American Journal of Sociology (July 1982);
 "Sexual Assault and Its Prosecution: A Comparison with Other Crimes," (with Martha Myers) Journal of Criminal Law and Criminology (1982); Review of "Crime and Deviance: A Comparative Perspective" by Graeme R. Newman in Social Forces (March 1982).

Research

Articles under review or in draft form: Grant Proposal - "Official Reactions to Hispanic Defendants and Victims in the Southwest," submitted to the National Institute of Justice, the Ford Foundation - seeking \$120,000; a two year study - "Adversarial and Non-adversarial Justice: A Comparison of Guilty Pleas and Trials in Six U.S. Cities"; "Juror Reactions to Defendants in Rape Trials: Toward a Social-Structural Theory of Rape" (with Barbara Reskin and Christy Visser).

Activities

Presented "Adversarial and Non-Adversarial Justice: A Comparison of Guilty Pleas and Verdicts," at the American Society of Criminology Convention, Washington, D.C., 1981; "Male Power and Female Victimization: Toward a Theory of Interracial Rape," presented at the American Sociological Association Meetings, Toronto, 1981;

LaFree, Gary D.
(continued)

served as a referee for the American Sociological Review, American Journal of Sociology, Social Forces, Social Problems, and National Science Foundation; member of Recruitment Committee, Sociology Department; chaired 6 dissertation and master's thesis committees; lectures for the annual New Mexico State Corrections Conference; consultant for the Albuquerque Police Department and Rape Crisis Center.

May, Philip A.

Articles

"A Navajo Health Consumer Survey," Medical Care, Vol. 18, No. 12 (Dec. 1981), pp. 1183-1195, with T. Stewart and A. Muneta; "Recruitment and Retention of Federal Physicians on the Navajo Reservation," The Social Science Journal (in press) with R.L. Brod and T. Stewart; "Susceptibility to Substance Abuse Among American Indians: Extreme Variation Across Socio-Cultural Settings," National Institute of Drug Abuse; "Contemporary Crime and the American Indian: A Survey and Analysis of the Literature," Research Monographs (in press); "Substance Abuse and American Indians: Prevalence and Susceptibility," Plains Anthropologist (in press) and in International Journal of the Addictions, Vol. 18, No. 5 (in press); review of Suicides by Jean Baechler, (New York: Basic Books, 1979) in Contemporary Sociology, Vol. 10, No. 3, pp. 342-343; review of Drinking Behavior Among Southwestern Indians: An Anthropological Perspective, ed. by Waddell, J.O. and M.W. Everett, (Tucson, AZ: University of Arizona Press, 1980) in Journal of Arizona History, Vol. 22, No. 2 (Summer 1981), pp. 273-274.

May, Philip A.
(continued)

Research

Director, Principal Investigator, National Institute of Mental Health Ph.D. Training Program on Applied Research on Crime and Deviance (10 traineeships) Department of Sociology, December 1980-present. Recent award 5TOMH15219-05 of \$82,303; Director, Fetal Alcohol Syndrome Project (part-time) Indian Children's Program, Indian Health Service, 2401 12th NW, Albuquerque, NM, December 1979-present.

Activities

Summer lecture tours to three Indian reservations and Indian Health Service locations in Arizona (Phoenix, Whiteriver and San Carlos), and four reservations in Oklahoma (Lawton, Clinton, Pawnee and Claremore). Lectured on Fetal Alcohol Syndrome and Alcohol Abuse Among Indians; invited and delivered a Plenary address to the Committee on Problems of Drug Dependence (CPDD) at their 43rd Annual meetings in San Francisco, July, 1981; lectures on "Susceptibility to Substance Abuse Among American Indians" and "Single Vehicle Crashes Among the Navajo Indians" at the American Association of Suicidology annual meetings, Albuquerque, NM, April 1981, with P.S. Katz; "Native American Suicide in New Mexico: A Comparative Study, 1957-1979" at the American Association of Suicidology annual meetings, Albuquerque, NM, April 1981 with Nancy S. VanWinkle and V. Montoya; "A Pilot Project on Fetal Alcohol Syndrome for Indians" at the Association of American Indian Physicians annual meetings, Denver, CO, July 1981; newspaper and newsletter articles published concerning

May, Philip A.
(continued)

scholarly papers in National Indian Health Board Newsletter, Indian Alcohol Times, and AAIP newsletter; Assistant Acting Chair, Department of Sociology, Summer, 1981; served on 2 M.A. thesis committees (1 as chair) and on 5 Ph.D. committees; member of Arts and Sciences Graduate Committee and Sociology Department Recruitment Committee; Advisory Committee of the Fetal Alcohol Syndrome Project; California Urban Indian Health Board, Oakland, CA, 1981; "Development of Selected Preventive Programs," 1st Annual Seminar for Preventive Health staff on Health Promotion and Disease Prevention, September, 1981, speaker; "Sociological Perspectives on Health Programs," New Mexico Division of Health and Environment, October 1-2, 1981, invited speaker; "Fetal Alcohol Syndrome Among American Indians," talk presented to the Annual Headstart Conference of the Minnesota Chippewa tribe, November 5, 1981; community lectures delivered in various locations around Albuquerque, Arizona and Colorado (1981, N=11), on Fetal Alcohol Syndrome.

Honors

Received recognition and high student rating for teaching in two courses (see attached LOBO article); selected as one of the National Indian Health Board's Honorees for 1982 for services above and beyond the "Call of Duty" in efforts to improve the health status of American Indians. (see attached letter). E

McNamara, Patrick H.

Research

Chapter for volume on American social problems to be published in the Fall, 1982, volume to be edited by Melvin DeFleur, Houghton Mifflin, publisher; article submitted for publication to Sociological Analysis, co-authored with Arthur St. George, Fall 1982.

McNamara, Patrick H.
(continued)

Activities

Presented paper at meetings of the Association for Sociology of Religion, Toronto, Canada, August, 1981; Consultant, Albuquerque Office of Municipal Development, Neighborhood Development Project, July 1981; Chair, Graduate Committee, Sociology Department, Spring 1981; Exchange professor (Fall 1981), at the Universidad Autonoma Nacional de Mexico, Mexico City.

Meier, Harold C.

Research

Research on the demographic record of marriages and consensual unions in Cuba, 1899 to the present.

Activities

On sabbatical, spring semester, 1981; undergraduate advisor to the Sociology Department; member of the Executive Committee, Sociology Department.

Merks, Gilbert W.

Articles

"Building Evokes Ortega's Legacy" in Alumnus (January 1981), pp. 4-5; review of Testimonios by Rodolfo Stavenhagen, in Hispanic American Historical Review, Vol. 61, No. 1 (February 1981), p. 178; "From the Director," LAI Bulletin, Vol. 1, No. 2 (December 1981), p. 1-2.

Research

Project Director, Tinker Foundation Summer research grants, 1981, 1982 - \$20,000 per annum; Project Director, "Colonialism and Its Legacy Program" U.S. Department of Education, 7/1/81 to 6/30/82 in the amount of \$35,000; Project Director, LAI Teacher-Fellow Program, U.S. Department of Education, 10/1/81 to 9/30/82 in the amount of \$45,000; Project Director, Title VI National Resource Center and Fellowships, U.S. Department of Education, 8/15/81 to 8/14/82 in the amount of \$132,964; Project

Merkx, Gilbert W.
(Continued)

Director, Indian Leaders Conference, Int. Communication Agency, 9/1/81 to 3/31/82, in the amount of \$15,000, plus four more grants.

Activities

Editor, Latin American Research Review; member, Committee on the Profession, Latin American Studies Association; TV interview on Undocumented Workers, channel 13 news, November 1981; consultant, U.S. Office of International Education, January, 1981; Member, UNM Press Committee; Acting Chairman, Sociology Department, Fall 1981; Executive Director, Latin American Institute; Acting Chair, Sociology Executive Committee; Chair, Sociology Recruitment Committee, Fall, 1981.

St. George, Arthur

Articles

"Catholic Schooling, Ethnic Background and Attitudes Toward Premarital Sex and Abortion" with Patrick McNamara, Sociological Analysis, (in press); Study Guide and Instructor's Manual for Bailey's Methods of Social Research, Free Press, scheduled for release in 1982.

Research

"Mass Media, Political Behavior, and Political Attitudes" (with S. Weber) revised for submission to Communication Research; management information system proposal submitted to the Jicarilla Apache, five chapters on a text in intermediate statistics.

Activities

Summer teaching, Sociology of Marriage and the Family and Methods of Sociological Inquiry, Summer 1981; Paper presented with Patrick McNamara on "Values and Attitudes of Catholic High School Students: A Five Year Study" to the Association for the Study of Religion, at their national meeting, 1981; Public Administration Advisory Committee.

Steele, Paul D.

Articles

"Labor Perceptions of Drug Use and Drug Programs in the Workplace," Journal of Drug Issues, Vol. 11, No. 2, pp. 279-292.

Research

"Evaluation of Federal Counseling Service Programs," with Robert L. Hubbard, Office of Personnel Management, under review.

Activities

"The Relationship Between Academic Research and Practical Experience in Corrections," Keynote Address at the annual meeting of Corrections Educator's Conference, Abiquiu, NM, October 9, 1981; Consultant to All Indian Pueblo Council; "Assessing Quality of Mental Health Service in Nineteen Pueblos" (Indian Health Service contract); Secretary and President's Designate to Interuniversity Consortium on Criminal Justice; Liaison to New Mexico Department of Corrections to develop corrections curricula; Sociology Department graduate advisor; member of New Mexico Council on Crime and Delinquency.

Tiano, Susan B.

Articles

"The Separation of Women's Remunerated and Household Work," Michigan State University-WID Working Papers Series, Vol. 1, No. 2, December 1981.

Research

Week-long site visit to Mexicali, Mexico to lay groundwork for research project on women in Maquiladoras (June 23-July 1); project development grant, Midwestern Universities Consortium for International Activities (MUCIA) for project to study women's economic role in Mexico; Ford Foundation grant, on behalf of Michigan State University Office of Women in International Development to develop project to

Tiano, Susan B.
(continued)

train future Third World leaders for women-in-development-related planning and policy-making.

Activities

Presented "The Separation of Women's Remunerated and Household Work" at the annual meetings of the American Sociological Association, August, 1981, Toronto; attended Women and Food Conference, University of Illinois, April 1981; reviewed paper submitted to Latin American Research Review; reviewed paper submitted to Latin American Institute Research Papers Series; coordinator, Office of Women in International Development, Michigan State University; member, Publication Subcommittee, Latin American Institute; Recruitment Committee, Sociology Department; Coalition for Human Rights in Latin America-UNM Coordinator.

Honors

Michigan State University
Teacher-Scholar Award, February 1981.

Tomasson, Richard F.

Articles

Edited and wrote the Introduction for Comparative Social Research, Vol. 4 (Greenwich, CT: JAI Press), 376 pp.; "Island," pp. 194-204 in Robert K. Furtak (ed.), Politisches Lexikon Europai: Albanien Bis Luxemburg (Munich: Verlag C.H. Beck); review of The Nordic Model: Studies in Public Policy Innovation ed. by Archer and Maxwell in Scandinavian Studies 53:95-96; review of Political Sociology: Readings in Research and Theory, ed. by Kourvetaris and Dobratz in Journal of Political and Military Sociology 9:127-128; review of Demographic Patterns in Developed Societies, ed. by Hiorns in Sociology: Reviews of New Books 8:85; review of Limits of

Tomasson, Richard F.
(continued)

The Welfare State in Scandinavian Studies 51:232-233; review of The Shaping of the Swedish Health System, ed. by Heidenheimer and Elvander, in Scandinavian Studies 54(1):87-89; review of Generations and Politics, by M. Kent Jennings and Richard G. Niemi, in Sociology Review of New Books 9(2):42-43.

Research

Worked on comparative social security project and continued editing Comparative Social Research.

Activities

Attended the International Studies Association Meetings, Philadelphia, PA, March 18-21; member of Executive Committee of Comparative Interdisciplinary Studies Section; Chairman, Arrangements Committee, Society for the Advancement of Scandinavian Studies, Albuquerque, April 30-May 2; attended American Sociological Association meetings in Toronto, August 24-27, 1981; Chairman, West European Subcommittee of the Committee on World Sociology of the American Sociological Association; gave presentation on Swedish pensions at the Swedish Studies Conference, San Francisco, Oct. 30-Nov. 1; presented paper "Social Security under Conditions of Austerity: Sweden and the United States," Society for the Advancement of Scandinavian Study, Nashville, TN, 29 April-1 May, 1982; attended Executive Committee Meeting of the Comparative Interdisciplinary Studies Section of the International Studies Association, Cincinnati, OH, March 24-27, 1982; unsuccessfully applied to the Social Security Administration for funding of Comparative Social Security Project; Faculty Senate, Spring, 1981; Arts and Sciences Social

Tomasson, Richard F.
(continued)

Sciences Promotion Committee; Faculty and Staff Welfare and Benefits Committee; Sociology Department Executive Committee; on sabbatical, Fall 1981 - travelled to Stockholm, Bonn, and the Hague for two months in conjunction with comparative study of social security in Sweden, the Netherlands, the Federal Republic of Germany and the United States.

Honors

Book, Iceland: The First New Society (Minneapolis: University of Minnesota Press, 1980) was chosen as an Outstanding Academic Book of 1980-81 by Choice (May, 1981, p. 1220).

Valdes, Nelson P.

Articles

In the Denver Post, December 27, 1981, p. 5b; reviewed 82 books for Handbook of Latin American Studies, Vol. 4, pp. 219-269; Editor of Sociology section on "Caribbean and Cuzanas," Handbook of Latin American Studies, Vol. 43, pp. 411-426; "Sobre lo Estado Unidos y Cuba," Reunion (Spain), Jan.-Feb., 1981, pp.6-7; "Ideological Roots of Cuban Revolution," chapter in book The Contemporary Caribbean, Trinidad Tobago, 1981, Vol. II; book review in Hispanic American Historical Review, November 1981, p. 795 and August 1981, p. 601.

Research

Study of Cuban foreign policy in Africa for UNM Press; Study of U.S. policy toward Cuba-both to be concluded in late 1983; N.M. Humanities Council Award for panel on U.S.-Cuban Relations (\$3,000).

Valdes, Nelson P.
(continued)

Activities

Member of Board of Editors,
Journal of Cuban Studies;
L.A.S.A. Task Force on
International Exchanges-
Chairman; Board of Editors,
of magazine Areito (New York);
Latin American analyst for
Pacific News Service since
December 1981; Latin American
events commentator for National
Public radio; undergraduate
advisor for Sociology Department;
Graduate Advisor for Sociology
Department; Latin American
Institute Library Subcommittee;
organizer for Cuba Week, Latin
American Institute, May 1981;
Latin American Institute
Curriculum Subcommittee;
Southwest Hispanic Research
Institute Task Force member;
UNM Press Manuscript reviewer
(2 manuscripts); University of
Pittsburgh Press Manuscript
reviewer (1 manuscript);
reviewer for Journal of Inter-
national American Studies and
World Affairs (1 manuscript);
reviewer for Humboldt Journal
of Social Relations (1 manuscript);
presented lecture on "Cuba and
the Caribbean" on October 8, 1981
at UNM SUB; discussant on panel
"Crime and Criminology in Latin
America" at the Rocky Mountain
Conference on Latin American
Studies, Las Cruces, NM, Feb.
14, 1981; presentation to the
Pan American Roundtable, in
Albuquerque on "Cuban Migrations
to the U.S.", March 11, 1981;
presentation to the Buen Samaritans
Church study group on "Latin
American Economic Development:
Problems and Prospects," March 15,
1981, Albuquerque, NM; presentation
to the N.M. Consortium on Latin

Valdes, Nelson P.
(continued)

American Studies on "The Teaching of Latin American Studies," August 1, 1981, Albuquerque, NM; attended meeting of Executive Committee of Institute of Cuban Studies, Washington, D.C., April 1981; presented paper on Central America at conference at University of California at Los Angeles, May 1981; presented paper on Cuban exiles in the U.S., sponsored by the IEC, New York, September, 1981; presented paper on New Mexico at a Conference on "Minorities in the Western Hemisphere," Havana, Cuba, November 1981.

Woodhouse, Charles E.

Research

Article in progress with Henry J. Tobias, "Revolutionary Optimism and the Practice of Revolution," (currently being revised); research on history of Carpenters Union in N.M., under the supervision of Robert Kern, Department of History, supported by \$90,000 grant from N.M. Humanities Council and Luther A. Sizemore Foundation - from summer 1981 to summer 1983.

Activities

Series of guest appearances on Acción 7 News, KOAT TV, November 1981, discussing work incentives in labor force; Graduate Advisor, Sociology Department; member, Graduate Committee, Sociology Department, Spring 1981; Chair, Undergraduate Academic Affairs Committee for Faculty Senate (entire year).

IN SOCIOLOGY WITH A CRIMINAL JUSTICE CONCENTRATION

This document attempts to summarize and clarify some of the major requirements and steps to be taken in the course of your program of studies at UNM. The Sociology Department is itself required to conform to the general guidelines of the Graduate School; these are presented in the GRADUATE BULLETIN. You should therefore obtain a copy and keep it handy (you may continue to follow the requirements of the BULLETIN under which you entered, even if later editions vary, although you may also choose to switch to the requirements of a later, current edition). The Sociology Department also has the responsibility to structure its program in accordance with the Graduate School requirements. The Graduate Committee of the Department, at the request of students and faculty, prepared this document in order to help you plan your way.

1. ADMISSION TO THE M.A. PROGRAM.

Formal admission to graduate work in sociology at UNM is done directly by the Graduate Office (Humanities 107), so application forms should be requested directly from them. Once the Graduate Office has your complete application, and transcripts from previous college work, these materials are sent to the Sociology Department where they are evaluated by the departmental graduate committee. Usually by a more direct route, the department will have received your letters of recommendation and your GRE scores.

- a) As a rule, the department admits only those applicants whose entire previous academic work adds up to at least a "B" average (3.00 in a 4.00 scale) in all subjects. In some cases students may be admitted on a probationary basis.
- b) GRE SCORES ARE REQUIRED of all applicants. We are interested in the verbal and quantitative scores only. If an applicant has not taken the test, he or she should do so as soon as possible.
- c) Consult the UNM GRADUATE BULLETIN for other requirements (such as letters of recommendation). The Graduate Office will send out the official notification of admission.

2. PREREQUISITES.

The Department assumes that you have met 12 hours of advanced undergraduate sociology and including statistics and methods. If you have already had these courses at UNM, or equivalent courses elsewhere, you should write a note to the Department Graduate Adviser listing the courses and briefly describing them. The Graduate Committee will review them, and place a note in your file indicating that you have met the prerequisites. If you have not taken some or all of them, you should plan to take those you have missed by enrolling in the undergraduate courses here. The course numbers are as follows:

Sociology 281, ELEMENTARY SOCIOLOGICAL APPLICATIONS OF STATISTICS
Sociology 481, RESEARCH METHODS IN SOCIOLOGY

Courses taken to satisfy prerequisites may NOT be counted toward the degree. All undergraduate prerequisites for the graduate program in this department which have not been satisfied prior to the student's admission to the graduate program, can be satisfied only by enrolling in the course for credit and receiving a passing grade from the instructor of each course.

3. THE GRADUATE ADVISER.

After admission to the graduate program, you are to meet with the graduate adviser prior to registration for courses. The adviser is to be a HELPER to you in learning about the department and in planning your program of study.

4. APPLIED M.A. REQUIREMENTS.

The Sociology Department offers both Plan I (thesis) and Plan II (exam) programs for the M.A. degree. The applied M.A. in Criminal Justice, being a Plan II degree, requires no thesis but 32 hours of course work and the taking of a written M.A. exam. The exam covers theory, methods and the criminal justice substantive area. The written M.A. exam is to be scheduled NO EARLIER THAN the beginning of the 7th week of instruction and NO LATER THAN the end of the 8th week of a given semester.

5. CURRICULUM.

a) Required Courses, General: 12 credits

Soc. 580	Methods of Social Research I
*Soc. 581	Methods of Social Research II
Soc. 513 or 514	Contemporary Social Theory
Soc. 570	Evaluation Research

b) Required Courses, Criminal Justice: 12 credits

*Soc. 516	Social Control Institutions
*Soc. 517	Criminology and Delinquency
Soc. 588	Field Observation and Experience
Pub. Admin. 580	Criminal Justice Administration

c) Elective Courses.

1) Any two of the following:

Soc. 413	Criminal Justice
Soc. 414	Sociology of Corrections
Soc. 416	Sociology of Legal Systems
*Soc. 504	Deviance
Soc. 505	Complex Organizations
Soc. 507	Social Theory (Latin/NM Justice Topics)
Soc. 519	Sociology of Latin American Legal Systems
Pub. Admin. 500	Issues in Contemporary Public Administration
Pub. Admin. 525	Public Personnel Administration
Pub. Admin. 544	Public Budgeting and Fiscal Management

2) Any one additional course accredited for graduate credit in Sociology or a related field, and approved by the Graduate Committee.

*designates a prerequisite for the course. Prerequisite for Soc. 581 is Soc. 480; for Soc. 516 is Soc. 414; for Soc. 517 is either Soc. 312 or 313.

6. PROPOSED COURSE SEQUENCE.

If students must complete undergraduate prerequisites, they are expected to do so by the end of their first academic year of study. Part-time students should submit an alternate plan to the Graduate Adviser for approval. In any case, students should make every effort to complete prerequisites and required (core) courses in NO MORE THAN FOUR SEMESTERS.

To be eligible for graduate credit for enrolling in Soc. 551 (Problems) a student must have satisfied all undergraduate prerequisites and must have completed the required courses (theory and methods) in his/her degree program.

7. SOCIOLOGY FACULTY.

- Theodore Abel, Professor (Ph.D. Columbia University)
Theory, History
- Dodd H. Bogart, Associate Professor (Ph.D. University of Michigan)
Social Psychology, Organizations
- Richard M. Coughlin, Assistant Professor (Ph.D. University of California, Berkeley)
Social Welfare, Field Practicum, Methods
- Pedro R. David, Professor and Chairman (Ph.D. Indiana University)
Criminology, Latin America, Criminal Justice
- George A. Huaco, Professor (Ph.D. University of California, Berkeley)
Theory, Literature
- Gary D. LaFree, Assistant Professor (Ph.D. Indiana University)
Criminology, Criminal Justice, Corrections, Deviance, Juvenile Delinquency, Methods
- Philip A. May, Assistant Professor (Ph.D. University of Montana)
American Indians, Deviance, Epidemiology, Evaluation
Coordinator, NIMH Trainees
- Patrick H. McNamara, Associate Professor (Ph.D. University of California at Los Angeles)
Religion, Urban
- Harold C. Meier, Associate Professor (Ph.D. University of Colorado)
Methods, Family
- Gilbert W. Merckx, Associate Professor (Ph.D. Yale University)
Theory, Latin America
- Arthur St. George, Assistant Professor (Ph.D. University of California, Davis)
Methods, Family
- Paul D. Steele, Assistant Professor (Ph.D. University of Texas)
Corrections, Criminology, Juvenile Delinquency, Deviance, Methods, Evaluation, Graduate Adviser
- Susan B. Tiano, Assistant Professor (Ph.D. Brown University)
Deviance, Latin America

Richard F. Tomasson, Professor (Ph.D. University of Pennsylvania)
Social Welfare, Demography, Scandinavia

Nelson P. Valdés, Associate Professor (Ph.D. University of New Mexico)
Comparative, Latin America

Charles F. Woodhouse, Associate Professor (Ph.D. University of California,
Berkeley)
Theory, Occupations

BACHELOR OF ARTS IN CRIMINAL JUSTICE CONCENTRATION

The University of New Mexico now offers an interdisciplinary program designed to prepare students for careers in criminal justice.

Career possibilities include:

- government agency work in law enforcement, corrections and preventative services
- corrections or criminal justice administration
- work in public safety programs
- preparation for a career in law, health service, social work or counseling
- preparation for graduate level study in sociology or public administration with a specialization in the criminal justice area.

ADMISSION

The University of New Mexico Admission Office (Scholes Hall) is directly responsible for entrance to the undergraduate program. Application materials are due in the Admission office by:

- August 1 for the fall semester
- January 1 for the spring semester
- June 1 for the summer session

Application guidelines and detailed instructions appear in the UNIVERSITY OF NEW MEXICO BULLETIN, available at the university bookstore.

Inquiries about undergraduate admissions should be addressed to:

The Office of Admissions

The University of New Mexico

Albuquerque, NM 87131

(505) 277-2446

PROGRAM ADVISEMENT

For specific advisement about the Criminal Justice Administration program, contact:

Criminal Justice Administration Adviser

Department of Sociology

University of New Mexico

Albuquerque, NM 87131

(505) 277-2501

BACHELOR OF ARTS REQUIREMENTS

1. 96 hours in Arts and Sciences
2. 128 acceptable hours
3. 2.0 grade point average
4. At least 40 hours of upper division courses with at least a 2.0 grade point average.
5. A and S English proficiency requirement
6. Group requirements:
 - a. 9 hours communication
 - b. 9 hours humanities
 - c. 6 hours biological/behavioral sciences
 - d. 6 hours physical sciences
 - e. 6 hours mathematics
 - f. 9 hours social sciences
 - g. $\frac{6}{51}$ hours fine arts

7. Foreign Language Requirement

8. Major Requirements:

a. Required courses: 37 hours

1. ASM 113 Management: An Introduction
2. P.A. 421 Introduction to Public Management
3. Pol. Sci. 301 Government of New Mexico
4. Soc. 110 Introduction to Sociological Inquiry
5. Soc. 213 Deviant Behavior
6. Soc. 281 Sociological Data Analysis
7. Soc. 312 Juvenile Delinquency
8. Soc. 313 Criminology
9. Soc. 413 Criminal Justice
10. Soc. 414 Sociology of Corrections
11. Soc. 488 Field Observation and Experience
12. Speech Comm. 240 Communication in Organization

b. Lower Division electives, 15 hours from the following courses:

American Studies:	211 Black Experience in the U.S.
	221 Southwest Indian Communities
	241 Chicano Experience in the U.S.
Anthropology:	275 Regional Cultures of the Southwest
Architecture:	275 Intro. to Institutional Architecture*
Management:	275 Principles of Institutional Mgmt.*
Philosophy:	275 Ethics of Punishment and Corrections*
Political Science:	200 American Politics
	270 Public Policy and Administration
	275 Politics of Criminal Justice*

* New courses, currently offered only at Valencia County Branch.

Psychology:	270	Interpersonal Relations
	275	Institutional Psychology*
Sociology:	211	Social Problems
	216	Race and Cultural Relations
	230	Society and Personality
	275	Criminal Corrections*
Speech Communication:	221	Interpersonal Communication
	225	Problem Solving Groups
	270	Interpersonal Relations
	275	Institutional Communications*

* New courses, currently offered only at Valencia County Branch.

c. Upper division electives, 21 hours from the following courses:

ASM:	306	Organizational Behavior I-Application
	307	Organizational Behavior II-Theory and Concepts
	326	Financial Management
	358	Man, Society and Law
	361	Organization Theory
	463	Human Resources Management
	464	Labor Arbitration and Collective Bargaining
Anthropology:	315	Current American Indian Problems
Afro American Studies:	301	Institutional Racism
Economics:	320	Economics of Labor Relations
Guidance and Counseling:	410	Rehabilitation Concepts and Process
	420	Foundation of Counseling
	430	Dynamics of Human Behavior
Philosophy:	380	Philosophy of Law and Morals
Political Science:	307	Politics of Ethnic Groups
	308	Chicano Politics

- Political Science:
- 309 Black Politics
 - 310 Native American Politics
 - 371 Public Policy Theory and Perspectives
 - 470 Public Policy Analysis
- Psychology:
- 331 Personality
 - 332 Abnormal Behavior
 - 413 Individual and Organizational Psychology
- Sociology:
- 326 Sociology of New Mexico
 - 416 Sociology of Legal Systems
 - 441 Formal Organizations
- Speech Communication:
- 321 Problems in Interpersonal Communication
 - 325 Intercultural Communication
 - 442 Strategies of Organizational Communication
 - 449 Communication Practices in Professions
- d. Undesignated electives: 4 hours

PROPOSAL FOR THE DEVELOPMENT OF A DUAL MASTER'S DEGREE IN COMMUNITY AND REGIONAL PLANNING (CRP) AND SOCIOLOGY - WITH A LATIN AMERICAN CONCENTRATION

This joint MA degree program is designed particularly for students interested in careers in Community and Regional Planning and in Sociology - with a Latin American concentration. It enables the student to earn the MA in CRP and the MA in Sociology in approximately 3/4 of the time it would take to earn both degrees.

This program has been designed because it would mix two disciplines with a practical and applicable orientation. It should be noted that there is a demand for regional/community planners in international agencies, governments (U.S. and abroad) and in private concerns. Moreover, there is a desire in Regional and Community Planning to develop such a program with us.

ENTRANCE REQUIREMENTS:

Students entering the joint MA degree plan will be required to have a B.A. degree or its equivalent in any academic or professional field of study. Community and Regional Planning as well as Sociology will continue to have their own respective entrance requirements. Students will have to fulfill those requirements as they apply for the M.A. program.

The program requires a minimum of 55 or 58 hours of course work (as opposed to a total of 73 hours if the degrees were taken separately, Sociology 30 hours, C/R Planning 43) and is offered only under the Plan I (thesis) option, with Community and Regional Planning accepting 9 hours of work in Sociology as 9 hours of outside work allowed, and Sociology accepting 6 or 9 hours of Community and Regional Planning. Those 18 hours count toward both degrees. The written thesis, which is required by Community and Regional Planning, will serve as one of the four fields of study in Sociology. Students must meet entrance and other requirements of both degree programs.

Required for the dual degree is an interdisciplinary seminar, issue-oriented or thematically-oriented, which will integrate the two degree areas of study. The sequence of courses remain to be determined. Below you will find a list of possible courses from both programs.

REQUIRED COURSES:

Sociology requires 24 hours of course work and 6 hours of thesis:

30 course hours. Of those, 9 course hours are general Sociology requirements:

Soc. 500 Classical Theory (Evaluation Theory)

Soc. 513 or 514 Contemporary Theory (Population)

Soc. 580 Graduate Methods (Urban Society, Sociology of Literature)

Sociology accepts 6 hours of Regional and Community Planning course work - leaving 15 hours of course work to be taken. Those 15 hours will be chosen from:

Soc. 350 Rural Latin American Society

Soc. 450 Urban Latin American Society

Soc. 361 or 461 Social Change or Social Implications of Technological Change

Soc. 508 or 584 Latin American Social Systems, Modernization

Soc. 518 Social Thought in Latin America

REGIONAL AND COMMUNITY PLANNING: (CRP)

CRP 165 Introduction to the City

CRP 181 Urban Design Concepts and Mathematics

CRP 203 Environmental Problem

CRP 463 The Housing Process

CRP 465 Community and Regional Planning Methods

CRP 466 Economics for City Planning

CRP 468	Urban Design Concepts and Methods
CRP 469	Rural Environmental Planning
CRP 497	Social Planning Seminar
CRP 564	Regional and Resource Planning
CRP 565	The Planning Process: Theory and Practice

Best Teachers Chosen by Students Through Research Office Evaluations

The Institutional Research Office has released completed figures of instructors rated as "excellent" by their students from the Instructor and Course Evaluation System (ICES), first used last fall.

The list is incomplete because the ICES is a voluntary system; individual departments sometimes have their own rating systems; and instructors can choose to withhold their results from the list, said Richard Cady, director of Institutional Research.

The rating of instructors and the rating of the course in general were the two common questions used in the system.

"I don't see student ratings as a cure-all," Cady said, "because students don't always have a choice of classes because of jobs or times of classes."

About 42 percent of all teaching faculty and teaching assistants at UNM used ICES in approximately 33 percent of all sections offered.

"We had uneven usage," Cady said. "Some departments required all their instructors to use ICEP and some didn't."

The following is the list of instructors rated as excellent by their students and their course number; (asterisk marks top 10 percent)

ARCHITECTURE — R. Nordhaus, 499; W. Preiser, 571.

American Studies — H. Bannan, 285, 331*.

Anthropology — J. Chisholm, 550*.

Chemistry — W. Coleman, 131*.

English — P. Davis, 220, 360*; M. Fischer, 280; S. Kauffman, TA,

Journalism — M. Hyman, 252,

Linguistics — S. Strauss, 555.

Navajo — R. Willink, 201.

Quechua — G. Bills, 311.

French — J. Dargan, 101; P. Gossein, TA, 104; L. Hagen, TA, 101.

German — B. Hannermann, 307*; R. Jespersen, 101; G. Peters, 101, 275; E. Robert, 107.

Italian — P. Quargnali, 276.

Russian — N. Kolchevska, 101, 201.

Spanish — J. Bergen, 543*; D. Gerdes, 301; E. Lamadrid, 340,

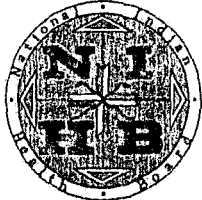
342*; A. Perches, TA, 202; J. Reyna, 203; S. Ulibarri, 307.

Political Science — R. Cady, 342; W. Chaloupka, 362; F. Harris, 300*.

Psychology — W. Miller, 450, 452; S. Roll, 102.

Sociology — G. Huaco, 430; G. Lafree, 413*; P. May, 441, 507*.

continued on page 5



NATIONAL INDIAN HEALTH BOARD, INC.

"Preventive Medicine — The Key to the Future"

May 12, 1982

Dr. Philip May
FAS Project - IHS
2401 12th Street, N.W.
Albuquerque, NM 87102

INDIAN CHILDRENS VILLAGE
MAY 20 1982
INDIAN HEALTH SERVICE

Dear Dr. May:

It gives me the greatest of pleasure to announce that you have been selected as one of the National Indian Health Board's Honorees for 1982. Your name and the work you have done was presented to the Board of Directors and they voted to recognize you in the only manner that we can.

The National Indian Health Board instituted a recognition procedure in 1981. It made its first awards that year. This is to give a pat on the back of those people who are working or have worked to help improve the conditions of health for our American Indians and Alaska Natives. In order to be recognized for their efforts, the Board expects to see that each nominee performed services above and beyond the "Call of Duty".

Your name was presented and the National Indian Health Board is proud to be able to recognize you for all your many hours of hard work, long nights, and time away from your immediate family as well as the years of preparing yourself to do this work. Your dedication and perservance is reflected in the improved quality of health services to our people. We are most proud of you and in behalf of all those American Indians and Alaska Natives that have most certainly benefited from your past service, let us say a great big THANK YOU!!

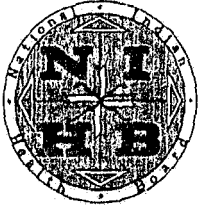
We hope you will display this Certificate in an appropriate place for all to see. Your continued work and dedication is most assuredly needed. We have made tremendous strides in the health care field in the past decade, and part of the reason we have been able to do this is because of good people just like you.

Again, let us say congratulations and may the Creator always be at your side as you continue to your work. This way, it will be done right!!!

Most sincerely,

Jake L. Whitecrow
Jake L. Whitecrow
Executive Director

P.S. Your certificate will be mailed in the next few days in a separate envelope. We wanted to alert you for it when the mail comes your way.



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The Report of the Department of Speech Communication
July 1, 1981 - June 30, 1982

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ATTACHMENT

Annual Report (1981-82) UNM Forensics Report

The Report of the Department of Speech Communication
July 1, 1981 - June 30, 1982

Kenneth D. Frandsen - Chairman

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements

At the beginning of the 1981-82 academic year one faculty member was promoted and two new faculty members joined the Department: R. Jensen was promoted to Associate Professor and T. Daniels, Assistant Professor, and J. Condon, Visiting Assistant Professor, were appointed, maintaining the total number of full-time faculty at ten. During the previous year T. Plax resigned after a year's leave of absence without pay during which he served as a Consultant to the Space Systems Division of Rockwell International Corporation. During the second semester J. Cox joined the Department as a Visiting Assistant Professor, temporarily replacing E. Zannes who was on leave. Also the Department recruited and appointed W. Woodall, who will replace T. Plax, and T. Jewell, who will assume the responsibilities of the Director of Forensics at the beginning of the 1982-83 academic year. In addition, the Department has arranged to reappoint J. Condon during the second semester of 1982-83 as a temporary replacement for L. Rosenfeld who is resigning at the end of this fiscal year to accept a position at the University of North Carolina.

Although the composition of the faculty continues to change, the quality of the faculty continues to increase. Nevertheless, the Department's long-range goal, namely, a faculty of twelve full-time members with professional rank remains unmet and is still warranted by the needs for flexibility and responsiveness to expectations concerning teaching, research and service. Commitment, involvement

and achievement by faculty and students in this Department are accelerating as the details of this report demonstrate. However, this report also reaffirms the Department's need for additional faculty and graduate teaching assistants along with increased budgetary support in order to reach its goals.

1. Instructional Activities: (course enrollments, evaluation of instruction, curriculum modification and development, special programs).

a. Course Enrollments: The continuing demands of both nontraditional and traditional students for courses in Speech Communication remain at a level which exceeds the Department's capability because of budgetary limitations on the number of faculty and teaching assistants. In introductory courses and service courses that are typically offered each semester (e.g., SpCom 101, 102, 110, 130, 221, 225, 240 and 268) student enrollments number between 800 and 950 with an additional 450 enrolled in intermediate and upper division courses. Enrollments in the Fall semester were only slightly higher than enrollments in the Spring, and the demand for courses offered during late hours, in the Summer Session, in our Graduate program, and at the Santa Fe Graduate Center remains strong.

b. Evaluation of Instruction: Faculty of the Department are sincere and persistent in their efforts to obtain and respond to students' evaluation of instruction. Office of Institutional Research reports indicate that 100% of faculty in this Department used the ICES. Results of these evaluations continue to indicate average to high average ratings and otherwise reflect the students' conviction that the faculty of this Department are both demanding and effective in the conduct of their instructional activities. One half of the faculty were rated either excellent or outstanding instructors by their students in at least one course during Fall Semester.

c. Curriculum Modification and Development: Faculty of the Department continued their efforts, along with representatives of the Departments of Journalism, Theatre Arts, and Educational Foundations, and with staff of KNME-TV and KUNM, to develop an integrated curriculum for the study of Mass Communication. A new brochure developed for distribution by the Office of School Relations has been produced and provides interested students with information about opportunities. The Department has facilities and equipment for expanding our offerings in Radio but requires additional faculty in order to begin the regular scheduling of such courses. Faculty in the Department have expanded the number and type of "internship" opportunities available for students to include work with the Albuquerque City Government Cable TV Channel and other agencies on and off campus.

The Department has continued to strengthen its ties with a variety of other units and programs within the University. In addition to involvement in American Studies and Religious Studies programs, faculty in this Department took an active role in the planning and deliberations for a doctoral program in the area of Organizational Development (B. Spiker and T. Daniels). In the area of Organizational Communication, additional internship opportunities have been established in several local business organizations.

Following the departmental faculty retreat described in the 1980-81 annual report, and prior to the publication of new general issue UNM Bulletins at both the undergraduate and graduate levels, the curriculum of the Department was reviewed and several changes and additions appear in these new bulletins. In short, the faculty of the Department are continuing their efforts to maintain the quality and timeliness of the Department's curriculum.

d. Special Programs: During the Spring the Department and the UNM Forensic Union hosted the National Forensic League's New Mexico District High School Tournament. The details of this activity and the record of accomplishments of participants in the Forensics Program are included in the annual report of the Director of Forensics. With the presentation of this report, the current Director of Forensics (B. Spiker) concludes a three-year term in that post. A new Director (T. Jewell) will begin in the Fall Semester of 1982 with increased support for Forensic activities at UNM.

During the academic year the Department sponsored a colloquium series which provided scholarly presentations by regular and visiting faculty. Each of the visiting scholars who participated in this series met with students in regularly offered courses and discussed their current research in the field of Human Communication. The Department plans to continue this series of presentations and looks forward to a time when fiscal support for this activity is sufficient to increase the number of participating faculty from other Universities.

As the host school for the 1983 annual convention of the Western Speech Communication Association, the Department began work on the local arrangements for this meeting. Several faculty have freely volunteered their time to this activity and the College of Arts and Sciences is supporting the efforts of the Department. Approximately 600 scholars and professionals in the field of communication are expected to attend this convention.

A sub-unit of the Department, the Institute for Organizational Communication (IOC), continued to increase its activity during the calendar year. Faculty conduct various consulting, training and research projects under the auspices of the IOC over and above their regular duties and

both graduate and undergraduate students work with faculty members on these projects. Staff of the IOC concluded work and reported the results of a Communication Audit conducted for Public Service Company of New Mexico. A variety of other organizations and agencies have expressed interest in the potential contributions of the IOC.

2. Departmental Operations and Activities: (Faculty Decision-Making, Service to the University, Service to Professional Associations, Research Appointments and Sabbatical Leaves, Department Library, Physical Facilities).

a. Faculty Decision-Making: Faculty of the Department met as a committee of the whole on several occasions to discuss matters of policy and personnel. Some matters were given attention by committees, such as the search and screening for a new faculty appointee, the development of material for departmental brochures, and the operation of multi-section courses. Although the number of formal meetings was kept at a minimum the frequency of consensus among the faculty was high.

b. Service in the University: Faculty of the Department served the University through membership on several committees. In the College of Arts and Sciences, K. Frandsen represented the Department on the A & S Graduate Committee, A. Lichtenstein served as a member of the Committee on the use of human subjects in research, J. Civikly chaired the A & S Teaching Resources Committee and continued her membership on the Linguistics committee, and L. Rosenfeld was a member of the A & S Promotions Committee. At the University level, R. Jensen represented the College of Arts and Sciences in the Faculty Senate and chaired the UNM Press Committee, L. Rosenfeld served on the Admissions and Registration Committee, and J. Schuetz was a member of the Student Standards Committee and the Provost's Committee on Gerontology. The Department was represented

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by B. Spiker and T. Daniels on the Committee on a Doctoral Program in Organizational Development and by K. Frandsen and A. Lichtenstein on the TV/Film Council. In addition to these activities, one faculty member (J. Civikly) began work on the development of a Teaching Resources Center for the University. When fully operational, this center will provide a variety of services and support to teaching assistants and faculty in order to assist them in meeting their teaching responsibilities more effectively.

c. Service to Professional Associations: During the course of this year, several State, Regional, National and International professional organizations were served by members of the faculty. E. Zannes continued her membership on the Education Council of the National Association of Educational Broadcasters and on the Executive Committee of the Carnahan Conference on Crime Counter-measures. L. Rosenfeld completed a three-year term as Editor of the Western Journal of Speech Communication, and served as a member of the Publications Board of the Speech Communication Association (SCA). T. Daniels was elected Secretary of the SCA's newly formed Commission on Research in Organizational Communication, began editing the Commission's newsletter, and served as a member of the By-Laws Committee of the International Communication Association's Philosophy of Communication Interest Group. K. Frandsen concluded a three-year term as a Consulting Editor for Communication Quarterly, a publication of the Eastern Communication Association, and R. Jensen continued his membership on the editorial board of the Western Journal of Speech Communication. J. Schuetz served as Secretary of the Western Speech Communication Association's Freedom of Speech Interest Group and, with R. Jensen, was named Co-Chairman of local arrangements for WSCA's 1983 convention to be held in Albuquerque. R. Jensen and K. Frandsen served as delegates to the

Legislative Assembly of WSCA at its annual meeting in Denver.

d. Research Appointments and Sabbatical Leaves: During the 1981-82 academic year one member of the Departmental faculty and two graduate assistants were assigned partly or completely to scholarly activities.

L. Rosenfeld was relieved of one-third of his teaching duties during the Fall Semester to enable him to meet his editorial responsibilities, and D. Dondero and L. Logan were assigned research duties in conjunction with the IOC Communication Audit for PNM.

e. Departmental Library: Library holdings in the field of Speech Communication continue to improve in both the Department's working collection and Zimmerman Library. With the availability of additional space as a result of the consolidation of Departmental facilities into one building, both use and functional value of the Department's working collection are expected to increase.

f. Physical Facilities: This year the Department was asked to vacate space it held in 1805 Roma and 613 Buena Vista and was assigned space in 608 Buena Vista formerly held by the Department of Communicative Disorders. This reassignment constitutes a significant improvement in accommodations for the Departmental Faculty and Staff. Nevertheless the Department still considers the space "temporary" and looks forward to the construction of a facility that would bring University units concerned with the study and practice of communication under one roof--a UNM Communication Center.

B. Significant Plans and Recommendations:

1. Degree Programs: Still high on the Department's list of priorities is the development and enhancement of its contributions to the study of Telecommunication at both the undergraduate and graduate levels. Currently only this Department offers courses at the graduate level and

the undergraduate curricular program in Telecommunication is distributed across the Departments of Speech Communication, Journalism and Theatre Arts. Because of existing demands on faculty within their respective Departments, the program suffers from lack of coordination and integration. This problem could be solved, in part, by the appointment of a senior faculty member with expertise in the broad field of Mass Communication who would accept responsibility for drawing the diverse elements of this curriculum into a closer relationship. Although scholars with requisite qualifications are in demand nationally, the potential of such a program at UNM would likely attract a pool of highly qualified applicants. Student interest in the study of Telecommunication is strong and action that would be responsive to this interest through appointment of additional faculty is very strongly recommended.

Students who earn Master's degrees in Speech Communication at UNM still must look elsewhere for opportunities at the doctorate level. Although the readiness of the faculty to direct doctoral work has been reduced somewhat by the resignation of one of its senior members (L. Rosenfeld), student demand and career opportunities for Ph.D. graduates continue to warrant giving serious consideration to the implementation of a Ph.D. program in Communication Studies.

Among the Department's plans for the coming year is the development of a proposal for a Summer Institute in Intercultural Communication. Through his reappointment as a visiting professor during Spring Semester 1983, the Department is fortunate in having the expertise, experience, and international reputation of J. Condon. Professor Condon has been a staff member in similar institutes at Stanford and Columbia Universities. He is optimistic about the potential success of such an institute at UNM and has committed a portion of his time and energy to the development of

this proposal.

2. University Forensics Program: A major problem still facing this program is the rapidly escalating cost of travel, meals and lodging as a result of the continuing inflationary spiral in the nation's economy. Funds allocated for this purpose remain considerably short of the minimum amount necessary to conduct a program of acceptable quality. Specific recommendations forwarded by the Department and the student members of the UNM Forensics Union were adopted in a meeting in the President's office during Fall Semester and a Director of Forensics (T. Jewell, Lecturer II) and Assistant Director (B. Donisthorpe, TA) have been appointed. However, student participation in this program will have to be limited to match the limited funds allocated for expenses until additional support in the amount recommended is made available.

C. Appointments to Staff

1. Faculty

- T. Brennan, Instructor, August 17, 1981 - May 14, 1982.
- J. Condon, Visiting Assistant Professor (Interpersonal/ Intercultural Communication), August 17, 1981 - May 14, 1982.
- J. Cox, Visiting Assistant Professor (Telecommunications) January 11 - May 14, 1982.
- T. Daniels, Assistant Professor (Organizational Communication, appointed August 17, 1981.

Faculty continuing for the 1981-82 academic year were:

- J. Civikly, K. Frandsen, R. Jensen, L. Rosenfeld,
- J. Schuetz, B. Spiker, and E. Zannes (on leave Semester II).

2. Graduate Teaching and Research Assistants

Maribeth Bohley	David Dondero (Sem. I)
Laura Carroll	Kevin Lamude
Ann Darling	Linda Logan (Sem. I)
Darrell Disrud	Thomas A. Simpson

3. Staff Appointments

Patrick Kiska, Electronic Technician II, appointed July 13, 1981.

Continuing Staff: Debra Petty, Staff Secretary
May Polivka, Staff Assistant

4. Student Employees

Phillip Collins
Agnes Lucero (Work Study)
Nancy Padilla (Work Study, Sem. I)

D. Separations from Staff

1. Faculty

L. Rosenfeld, Effective July 2, 1982

E. Sponsored Research

During the period covered by this report four members of the faculty (40%) submitted proposals to outside agencies and organizations in order to obtain support for a variety of projects. Of those submitting proposals, two obtained support and another is awaiting notification. Three other members of the faculty continued to be supported by contracts and grants from outside agencies. In all five faculty members (50%) received some form of external support.

II. Faculty Accomplishments: January 1, 1981 - December 31, 1981

1. Advanced Study

Janice E. Schuetz

Completed a course in constitutional law, UNM Law School, Fall 1981.

Attended two seminars on Aging at Edwardsville, Illinois and Albuquerque, N.M.

Participated in workshops at conferences--Waging Peace in an Armed World, Albuquerque, N.M.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel

Jean M. Civikly

On sabbatical leave Spring 1981. Research on communication in friendships and aspects of the friend relationship. Also development of training materials for the encouragement of creativity in classroom communication (teacher training).

Kenneth D. Frandsen

Travel: Salt Lake City, Utah; Sun Valley, Idaho; Spokane, Washington; San Francisco, California; Waco, Texas; Austin, Texas; Houston, Texas.

Lawrence B. Rosenfeld

Summer teaching: University of Northern Colorado (on Lowry Air Force Bases, Denver).

Barry K. Spiker

Taught at Santa Fe Graduate Center, Summer 1981.
Travel to eleven Western States, Summer 1981.

3. New scholastic honors, fellowships, etc.Lawrence B. Rosenfeld

Member of Sigma Xi, scientific honorary society.

Janice E. Schuetz

Received Herbert Wilhelms Memorial Award for Scholarship in Speech and Law from the Speech Communication Association of America for article entitled: "Alexander Solzhenitsyn's Approach to the Philosophy and Function of Free Expression."

4. PublicationsJean M. Civikly

"The Balance of Friendship." Century: Southwest Journal of Observation and Opinion, 1, 1981, 22-26.

Contexts of Communication. New York: Holt, Rinehart & Winston, 1981.

Self-Concept, Significant Others and Classroom Communication. In L. L. Barker (ed), Communication in the Classroom: Contemporary Theory and Practice. Englewood Cliffs, N.J.: Prentice-Hall, in press.

Tom D. Daniels

"Information Adequacy and Communication Relationships: An Empirical Examination of 18 Organizations," Western Journal of Speech Communication, 1981, 45, 342-354. (Co-author: Barry K. Spiker).

Kenneth D. Frandsen

Nonverbal Communication, 2nd ed. in MODCOM. Chicago: Science Research Associates, 1982. (Co-author: Thomas W. Benson, Pennsylvania State University).

Richard J. Jensen

The Reagan/Anderson Debate in The Presidential Debates of 1980, ed. Kurt W. Ritter (in press).

"No Revolution Without Poets: The Rhetoric of Rodolfo 'Corky' Gonzales," Western Journal of Speech Communication (in press).

"Interview with Rudolfo Anaya," Debate: A Public Forum (December 1981), 52-53.

Allen Lichtenstein

1239

The Fourth American Alternative: Public Television in the United States. University of Helsinki Publications. (Co-author: Osmo Wiio).

"A Comparison of the Impact of Presidential and Local Candidate Televised Debates," accepted for publication in Western Journal of Speech Communication, Fall 1982.

"A Comparison of Readers and Viewers of Science Fiction," accepted for publication in Extrapolation, Fall 1982.

Lawrence B. Rosenfeld

"Self-Disclosure," in Jean M. Civiky, ed., Contexts of Communication. (New York: Holt, Rinehart, and Winston, 1981). Co-authors: R. Adler and N. Towne.

"Telephone Conferencing in Administrative Hearings: The New Mexico Field Experiment," in J. Schement, ed., Telecommunications Policy Yearbook. (New York: Praeger, 1981). (Co-authors: J. Corsi, G. Fowler, and K. Newcomer).

Janice E. Schuetz

"The Promise of Arguing Through the Humanities, Lifelong Learning and Communication," in The Humanist in Aging Studies, ed. Patricia Morrow (Wichita, Kansas: Mid America Congress in Aging, 1981).

"Alexander Solzhenitsyn's Approach to the Philosophy and Function of Free Expression," Free Speech Yearbook, ed. Peter Kane (Annandale, Va.: Speech Communication Association, 1981), Vol. 20.

"The Genesis of Argumentative Forms and Fields," in Dimensions of Argument, eds. Wayne Ziegelmüller and Jack Rhodes (Annandale, Va.: Speech Communication Association, 1981), 279-294.

"Communication Instruction and Aging," Communication Education, 30 (January 1981), 89-91.

"In Defense of the 'Distinctiveness' of Argumentation," Journal of the American Forensic Association, in press.

"The Genesis of Argument and the Pursuit of Free Expression by Alexander Solzhenitsyn," Journal of the American Forensic Association, in press.

"Geragogy: Instructional Programs for Elders," Communication Education, in press.

"Dissonant Parables: The Story of the Jimmy Carter Campaign," New Mexico Communication Journal, 6 (Fall 1981).

Barry K. Spiker

"Information Adequacy and Communication Relationships: An Empirical Examination of 18 Organizations." Western Journal of Speech Communication, 45 (Fall 1981), 342-354. (Co-author: Tom D. Daniels).

"A Communication Audit of a State Mental Health Institution." ERIC #ED188270 and Short Notes in Research in Education, November 1980. (Co-authors: W. F. Eadie, R. S. Goyer, E. Leibowitz, and J. Gossett).

"The Quantitative Quandary in Debate." Journal of the American Forensic Association (in press). (Co-authors: Tom D. Daniels and Lawrence M. Bernabo).

Estelle Zannes

Communication: The Widening Circle. (Reading, Mass.: Addison Wesley, 1981).

Stand Up, Speak Out. 2nd ed. (Reading, Mass.: Addison Wesley, 1982).

5. Other research projects or creative work in progress or completedJean M. Civikly

Book manuscript preparation: Friendship and Communication. Humor in Cross Cultural Perspective. \$2500. Seminar for College Professors, Summer 1981.

Research proposal: Education Policy Fellowship Program. Institute for Educational Leadership (not funded).

Research proposal: FIPSE, Evaluation of Faculty Development Program, \$20,000, awaiting decision.

Research on Perceptions of Teaching Quality at UNM. Survey results to be tabulated and reported in Spring 1982. Data collection Fall 1981.

Research: Humor, Ambivalence and Interpersonal Friendships. Course development for SpCom 521, Spring 1982.

John C. Condon

Books in progress: Intercultural Communication and the E.S.L. Teacher; Communicating with the Indo-Chinese in America; Communicating with the Japanese.

Tom D. Daniels

Associate Investigator, Communication audit of a Southwest utility. \$20,000 grant awarded by PNM to the Institute for Organizational Communication (Barry K. Spiker, Principal Investigator), completed 11-15-81.

"Canonical Structures in the Relationship between Information Adequacy and Satisfaction with Communication Relationships," a paper accepted for presentation at the Western Speech Communication Association convention, February 1982. Under review for publication in Human Communication Research. (Co-author: Barry K. Spiker).

"The Quantitative Quandary in Forensics: Use and Misuse of Statistical Evidence." Under review for publication in The Journal of the American Forensic Association. (Co-authors: Barry K. Spiker and Lawrence M. Bernabo).

"On Straw Men, Dead Horses, and Mythical Beasts: A Reinterpretation of Conventional Social Science as an Approach to Communication Inquiry," a paper submitted to the International Communication Association. (Co-author: Kenneth D. Frandsen).

Textbook in progress: Communication Practices in Organizations. Under contract with Wm. C. Brown Publishers. (Co-author: Barry K. Spiker).

Kenneth D. Frandsen

Communicative Speaking and Listening, 5th ed. (New York: Holt, Rinehart and Winston). (Co-author: Paul D. Holtzman).

"On Straw Men, Dead Horses, and Mythical Beasts: A Reinterpretation of Conventional Social Science as an Approach to Communication Inquiry," a paper submitted to International Communication Association. (Co-author: Tom D. Daniels).

Richard J. Jensen

Extensive research concerning the changes of life that radicals of the 1960s and 1970s have undergone, researching changes in traditional religions because of demands of women members of those groups.

Ongoing research on Chicano Rhetoric and Southwest Rhetoric.

Application for a Ford Foundation Grant for \$31,250 to write a history of the Chicano Movement in Crystal City, Texas. Not funded, but a similar proposal will be submitted to other agencies.

Allen Lichtenstein

"Analysis of One Week of Nightly TV News," a paper accepted for presentation at the Broadcast Education Association convention, Dallas, April 1982.

"Jerry Rubin as Cultural Icon." (Co-author: Richard J. Jensen).

"Media Gratifications." (Co-author: Lawrence B. Rosenfeld).

Lawrence B. Rosenfeld

The Use of Telephone Conferencing in Administrative Fair Hearings: Major Findings of the New Mexico Experiment with Unemployment Insurance. Report to NSF under contract No. DAR-7715516. Combined grants totaling over \$1,000,000. Co-authors: J. Corsi, G. Fowler, K. Newcomer, and D. Nierkirk. (A parallel report was made to NSF, HEW, and FNS for welfare cases).

Janice E. Schuetz

Summer Research Stipend, College of Arts and Sciences, to develop media materials for the instruction of the elderly, Summer 1981.

Developed new course entitled: "Famous Speeches: American Trials."

Developed materials and conducted religious retreat for Senior Citizens.

Developed workshop on public advocacy for Public Service Company of New Mexico, Fall 1981.

Barry K. Spiker

Principal Investigator, "A Communication Audit of a Southwest Public Utility Company," Public Service Company of New Mexico, \$20,000, 32 weeks.

Proposals submitted to: Sandia National Laboratories \$103,000; UNM/BCMC Hospital \$18,000; Emergency Medical Services Bureau of New Mexico, \$20,000; Honeywell, Inc. \$5,000.

Textbook for upper division undergraduates, Communication Practices in the Professions, Wm. C. Brown Publishers, in progress. (Co-author: Tom D. Daniels).

"Canonical Structures in the Relationship between Information Adequacy and Satisfaction with Communication Relationships," a paper under review for Human Communication Research. (Co-author: Tom D. Daniels).

Estelle Zannes

Video productions: Shaping Up--five 1/2 hour shows funded by City-County Department of Parks & Recreation. Aired locally; Producer-writer, Olympic Experience, 1/2 hour show; OCETA program for disadvantaged young people. Aired locally and sent to Washington for distribution.

6. Activities in learned and professional societies

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Jean M. Civikly

Attended NEH Summer Seminar, University of California, Berkeley, Humor in Cross Cultural Perspective.

Tom D. Daniels

Secretary, Commission on Research in Organizational Communication, Speech Communication Association; attended November 1981 convention.

Member, By-Laws Committee, Philosophy of Communication Interest Group, International Communication Association.

Reader, competitive papers submitted for the Philosophy of Communication Interest Group, International Communication Association Convention, May 1982.

Kenneth D. Frandsen

Member, Legislative Assembly, Western Speech Communication Association, 1980-81.

Attended Annual Convention, Western Speech Communication Association, San Jose, CA, February 14-17, 1981.

Paper, "Relational Control, Empathy and Rhetorical Sensitivity: A Review and Critique," presented to Interpersonal and Organizational Communication Interest Group, WSCA Convention, 1981.

Program Chairman, Interpersonal and Organizational Communication Interest Group, WSCA Convention, 1981.

Member, Commission on Organizational Communication Research, Speech Communication Association.

Member, Association for Communication Administration.

Member, Speech Communication Association.

Attended Annual Convention of Speech Communication Association of America, Anaheim, CA, November 12-15, 1981.

Consulting Editor, Communication Quarterly (publication of the Eastern Communication Association).

Richard J. Jensen

Chair, Rhetoric and Public Interest Group, Western Speech Communication Association.

Paper, "Freedom of Expression: A Case Study of the Mormons for ERA," a paper presented at the Western Speech Communication Association convention, February 1981.

Paper, "A Rhetorical Analysis of the I.W.W.," presented at the Southwest Labor Studies Conference, Albuquerque, May 1981.

Paper, "Mormons and the ERA--Speaking Freely," presented at the Speech Communication Association convention, Anaheim, California, November 13, 1981.

Chair, Credentials Committee, Western Speech Communication Association.

Associate Editor, Western Journal of Speech Communication.

Allen Lichtenstein

Paper, "Attitudes Toward Televised Political Debates at Different Levels," presented at Western Speech Communication Association, February 1981.

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Allen Lichtenstein (cont'd)

Paper, "Personality Preference for Televised Sports," San Diego Conference on Culture and Communication, February 1981.
Paper, "Psychographic Profile of Battleship Gallactica Viewers," Conference on Science Fiction and The Fantastic Florida Atlantic University, Boca Raton, Florida, March 1981.
Paper, "A Comparison of Readers and Viewers of Science Fiction: A Psychographic Profile." Science Fiction Research Association Conference, Denver, June 1981.

Lawrence B. Rosenfeld

"The Future is Ours (?)," ACE Conference, Durango, Colorado, 1981.
"Communicative Functions in the Group Setting: A Critique," Speech Communication Association, Anaheim, California, 1981.

Janice E. Schuetz

Member of the National Committee on Accountability in Public Communication, Speech Communication Association.
Member of the National Committee on Communication and Aging, Speech Communication Association.
Member of Rhetoric and Communication Interest Group, Speech Communication Association.
Member of Women's Causes Interest Group, Speech Communication Association.
Member of Organization for Research for Women and Associate Editor for the Journal of Research on Women.
Member of the Rhetoric and Public Address Interest Group, Western Speech Communication Association.
Secretary, Free Speech Interest Group, Western Speech Communication Association.
Member and program participant in American Forensic Association.
Member and participant in Western Gerontological Society.
Associate Editor of Debate: A Public Forum, Southwest Research Association.

Barry K. Spiker

"Canonical Structures in the Relationship between Information Adequacy and Satisfaction with Communication Relationships," a paper to be presented to the Western Speech Communication Association convention, Denver, February 1982. (Co-author: Tom D. Daniels).
"A Communication Audit of a Southwestern U.S. Utility Company," paper under review, International Communication Association, Boston, 1982.
"The Organizational Communication Research Process," program under review. A panel conceived and chaired by Barry Spiker for the International Communication Association, Boston, 1982.
"The Quantitative Quandary in Debate," a paper presented at the Western Speech Communication Association, San Jose, California, February 1981. (Co-authors: Tom D. Daniels and Lawrence M. Bernabo).
"A Critique of Communication in Human Resource Management," a paper presented at the International Communication Association, Minneapolis, Minnesota, May 1981.

Barry K. Spiker (cont'd)

Memberships in: American Forensic Association, American Society for Training and Development, International Communication Association, Speech Communication Association, Western Speech Communication, New Mexico Communication Association, National Individual Events District Committee.

Estelle Zannes

Member, Education Council, National Association of Education Broadcasters.

Member, Executive Committee, Carnahan Crime-Countermeasures Conference, Lexington, Kentucky.

Member, Advisory Committee, "Women in City Government," Albuquerque, New Mexico.

7. Other Professional Activities

Tom D. Daniels

Co-facilitator with Beth Moise and Barry K. Spiker, "Managing the Stress of Organizational Development," Workshop at 4th Annual Governor's Career Development Conference for Women in State Government, Glorieta, November 6, 1981.

Interviewee, KUNM news story on ethics in the marketing of consultant services. (Counterpoint comments concerning workshops which are intended to help participants in the organization of consulting businesses.)

Kenneth D. Frandsen

Judge, Miss T.E.E.N. National Pageant Finals, December 4-5, 1981.

Judge, American Legion National High School Oratorical Contest (New Mexico State Finals), February 27, 1981.

Manuscript reviewer, Macmillan Publishers.

Richard J. Jensen

Speech to Phi Kappa Phi members, Eastern New Mexico University, April 21, 1981.

Allen Lichtenstein

Consulting for KNME-TV on programming.

Consulting for KUNM on programming.

Appearance on KNME "Illustrated Daily" November, 1981, topic: TV ratings.

Appearance on KOB-AM Nov. 1981, topic: mass media and politics.

Lawrence B. Rosenfeld

Consultancies: Renaissance International, Colorado Springs, Colorado; Albuquerque Public Schools.

Associate Editor for the Western Journal of Speech Communication.

Janice E. Schuetz

Presented talks on communication and aging at: St. Mary's Shelter Home, Monzano del Sol Nursing Home, Highland Senior Center, Palo Duro Senior Center, Camina Vista Nursing Home, Four Seasons Nursing Home.

Janice E. Schuetz (cont'd)

Presented interview on political debate on KNME-TV, "Illustrated Daily" and in the Albuquerque Tribune.

Presented talks in the community:

Theology for Lunch at UNM, "Spirituality and Solzhenitsyn"

Religious Studies Colloquium, "Rhetoric and Revivalism"

Theology for Lunch at UNM, "Dwight Moody as Evangelist"

Conflict Management talks presented to several city groups including Kiwanis and Public Service Company of New Mexico.

Barry K. Spiker

Referee for Western Journal of Speech Communication.

Reviewer for Macmillan Publishing Company (College Textbook Division).

Radio interview for KUNM Radio on Consultation Ethics.

Consultant and Trainer for: UNM Student Activities Office (Cheerleaders), New Mexico Governor's Conference on Women in the 80s, The Public Service Company of New Mexico, Bernalillo County Municipal Court (DWI School), Los Lunas Training Facility, Los Lunas, New Mexico, Emergency Medical Services Bureau of New Mexico.

Member of Commission on Organizational Communication Research, 1981.

Estelle Zannes

Consultant, City of Albuquerque, City Government Cable Channel, Developed and created new city cable operations, including production facilities, job positions, internship program, and production of initial programs.

8. Non-teaching University ServiceJean M. Civikly

Arts & Sciences Teaching Resources Committee

Member, Policy Committee, Department of Linguistics.

Tom D. Daniels

Faculty participant, Albuquerque Home Visit Project, Office of School Relations, November 1981.

Faculty participant, Senior Day, November 7, 1981.

Member, Search Committee for position in Interpersonal Communication, Department of Speech Communication.

Member, Advisory Committee on Doctoral Program in Organizational Development, Office of Graduate Studies.

Kenneth D. Frandsen

Chairman, Department of Speech Communication.

Member, University TV-Film Council.

Member, College of Arts & Sciences Graduate Committee.

Director, Institute for Organizational Communication.

Richard J. Jensen

Chair, UNM Press Committee.

Member, Faculty Senate.

Advisor, Graduate Student Association, Department of Speech Communication.

Participant in Ambassador Program, Orientation '81, College Enrichment Program.

Key Person United Way.

Allen Lichtenstein

Member, College of Arts & Sciences Human Subjects Committee
 Faculty advisor for Football Team, Academic Orientation,
 August 1981.

Lawrence B. Rosenfeld

Member, Arts & Sciences Promotion Committee.
 Member, Admissions and Registration Committee.
 Faculty graduate advisor.

Janice E. Schuetz

Directed doctoral dissertation for Janet Haley for the
 Jesuit School of Theology at Berkeley, CA.
 Served on thesis committees of Christina Reynolds and
 project committee of Tom Simpson.
 Served on dissertation committee of Gayle Fredricks.
 Faculty Advisor for Newman Center Student Group, UNM.
 Member of Provost's Committee on Gerontology, UNM.
 Member of Student Standards Committee, UNM.
 Faculty Advisor for Students for Jeff Bingaman, UNM.

Barry K. Spiker

Advisor to three Student Interns in Dean of Students Office.
 Member of six Masters Comprehensive Committees, Department of
 Speech Communication.
 Member of two Doctoral Comprehensives/Dissertation Committees.
 Acting Chairperson, Ph.D. in Organizational Development Advisory
 Committee, UNM.
 Director of Forensics; Advisor to UNM Forensic Union.
 Development of UNM Forensic Alumni Council.
 Guest lecturer in assorted UNM classes.
 Participant in School Relations "Calling Campaign"
 (Faculty Outreach).
 Participant in School Relations "Home Visitation Program"
 (Faculty Outreach).
 Speaker to Dean of Students Staff on Professional Development,
 UNM.
 Submitted proposals to UNM Department of Speech Communication
 for two new courses, Applied Masters Degree Program, unified
 Internship program.
 Presented colloquium with Professor Wayne Pace (BYU) on
 Careers and Internships in Speech Communication.
 Speaker to the Management Roundtable of the UNM Library.
 Colloquium on Delphi Methodology in Organizational Communica-
 tion, August 1981.
 Speech Communication Department committee work: Curriculum,
 Organizational Communication Search Committee, Interpersonal
 Communication Search Committee.

Estelle Zannes

Faculty advisor, graduate students, Department of Speech
 Communication.
 Advisor, undergraduate students in Telecommunication area.

9. Public ServiceJean M. Ciyikly

Reporter for Valley Voice newspaper, Los Griegos Community Schools, and member of association.

Volunteer work, Rio Grande Zoological Park.

Kenneth D. Frandsen

Member, Board of Directors, Little Turtle Townhouses Homeowners Association.

Richard J. Jensen

Service to the Newman Center, UNM. Serve as minister in a variety of capacities, involved in religious education, and perform a variety of functions for the Center.

Allen Lichtenstein

Member of the Task Force for Preventive Mental Health, Bernalillo County Mental Health Center.

Instructor in Adult Education Program, Congregation Albert.

Janice E. Schuetz

Service to Newman Center, UNM, training program in group methods, adult group.

Worked on campaign to re-elect David Rusk.

Member of Villa De Paz Neighborhood Association.

Worked with Speech students at St. Pius High School.

Worked on Senate campaign of Jeff Bingaman.

Barry K. Spiker

Member, Boy Scouts of America District Committee.

Judge for Albuquerque Toastmasters, Optimists Speaking Contests.

Guest, Annual Emergency Medical Services Bureau Advisory Committee Annual Meeting in New Mexico.

Estelle Zannes

Conducted Municipal League workshops.

Video training for Women in City Government.

Speeches to civic organizations.

University of New Mexico Forensics Program

Annual Report

1981 - 1982

Submitted by

Barry K. Spiker, Director of Forensics
Department of Speech Communication

The University of New Mexico forensics program had a moderately successful year competitively, but had a highly successful year in other areas. The University and its Board of Regents, as well as all the students and administrators, should be congratulated for a strong commitment to the continuation of forensics at UNM. Consistent funding and a full-time Director of Forensics should ensure UNM's place in forensics in the Southwest. A commitment of this nature allows the forensic program the flexibility to expand into the community and region with greater numbers of participants while maintaining its excellence in competitive and non-competitive activities. This past year's recruitment of several new students into the University and the forensics program is direct and early evidence of the efforts taken by all.

The future of forensics at UNM is exciting. It has been this director's pleasure to be a part of this transitional period over the past three years. Anyone who reads this report can expect that I will do all that is possible to assist the new director in UNM forensics.

The following students have participated in sustaining UNM's excellence in competitive and non-competitive activities. The students have not only been good citizens in the Albuquerque community and the State of New Mexico (by serving as assistant coaches at many high schools), but they have also carried heavy course loads and maintained a team grade point average in excess of 3.5 (out of 4.0). They are all to be commended for their efforts in coaching, judging, competing, and recruiting for the University of New Mexico.

Rose Barrett

- 5th Place Speaker Award in After Dinner Speaking at the U.S. Air Force Academy.

Bruce Donisthorpe

- A.P.S. High School Judge
- Optimist Club Judge
- Eldorado High School Assistant Coach
- 2nd Place After Dinner Speaking Award at the U.S. Air Force Academy.

Robert Hampton

- A.P.S. High School Judge
- Sandia High School Assistant Coach
- 3rd Place After Dinner Speaking Award at the U.S. Air Force Academy.

Denise Maes

- A.P.S. High School Judge
- Sandia High School Assistant Coach
- 6th Place After Dinner Speaking Award at Colorado College.

Beverly McGary

- A.P.S. High School Judge
- Manzano High School Assistant Coach
- Optimist Club Judge.

Jeff Moehn

- A.P.S. High School Judge
- Taos High School Assistant Coach.

Rick Salgado

- A.P.S. High School Judge
- Los Alamos High School Assistant Coach
- Optimist Club Judge
- Octofinalist at the University of Denver Cross-Examination Debate Tournament.

Gloria Simon

- 3rd Place Speaker Award in Dramatic Interpretation at the University of Utah

Anne Wood

- A.P.S. High School Judge
- Los Alamos High School Assistant Coach
- Octofinalist at the University of Denver Cross-Examination Debate Tournament

Joseph Rippin

- Participated in the National Undergraduate Honors Seminar in Communication, April 15-17, 1982, Greencastle, Indiana.

Jon King, Cindy Schneider, Lisa Shumpert, and Andy Carter all assisted in judging and coaching for the Albuquerque Public Schools.

In addition, all of the above students, as well as some not mentioned, helped to prepare for the Wayne Eubank Invitational Tournament, which had to be cancelled, first, due to other competing tournaments, and second, due to inclement weather. We will continue the Eubank Tournament in 1982.

Finally, the UNM Forensic Union and the Department of Speech Communication should be congratulated for successfully hosting the Regional National Forensic League (N.F.L.) High School Forensic Tournament. Many faculty, Albuquerqueans, and UNM students, past and present, helped to make the high school tournament an enjoyable experience for everyone. As a result of this year's success, UNM has been asked to host over 200 high school students from three states once again in 1983.

This report would not be complete without thanking my assistant, Maribeth Bohley, who worked so hard and so well in her administrative and coaching capacities. There are many others to thank as well, not the least of which are the faculty of the Speech Communication Department, its chairperson, Ken Frandsen, and its staff assistant, May Polivka.