

6-30-1978

Annual Report of the University, 1977-1978, Volumes 1-4

University of New Mexico

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ANNUAL REPORTS
1977-78

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THE REPORT OF THE DEPARTMENT OF
INTERCOLLEGIATE ATHLETICS

July 1, 1977 - June 30, 1978

Lavon McDonald - Athletic Director

THE REPORT OF THE DEPARTMENT OF
INTERCOLLEGIATE ATHLETICS

July 1, 1977 - June 30, 1978

Lavon McDonald - Athletic Director

The University of New Mexico intercollegiate athletic program made a major splash on the national scene in 1977-78 with 13 Lobos earning All-America honors and the UNM basketball team achieving its best finish ever. Additionally, one of the biggest highlights of the school year for New Mexico was the hosting of the 1978 N.C.A.A. Far West Regional Basketball Tournament, March 16 and 18.

The two-day tournament, which drew praise on national television from commentators Al McGuire and Dick Enberg, had the best attendance of the four regional tournaments in 1978. The 35,894 who attended the Far West Regional at University Arena meant that nearly half a million fans witnessed Lobo athletic events and those hosted by the University in 1977-78 (485,952).

The Lobos had not won a Western Athletic Conference championship in any sport since 1974. That was the year Norm Ellenberger led the Lobos to the WAC basketball crown. The Lobos finally won another WAC title in 1978 and it was one of the most impressive in the history of the league. Their 13-1 record was the best ever by a conference champion and their fourth place ranking in the final United Press International poll was the best finish ever by a WAC team.

Overall, the Lobos finished fourth in the Western Athletic Conference all-sports standings behind Brigham Young, Arizona State and Arizona.

The UNM ski team won its seventh straight Central Intercollegiate Alpine League team championship.

UNM fielded 12 varsity teams with the elimination of water polo. The breakdown by sport:

CROSS-COUNTRY -- The cross country team fell another notch from the previous year's finish in the Western Athletic Conference championships, ending up sixth out of seven teams entered. However, while the best individual finish the previous meet by a Lobo was 23rd, Harrison Koroso finished ninth in the 1977 meet to qualify for the national championships. Koroso did not place in the NCAA finals.

FOOTBALL -- The NCAA and ABC television rated the New Mexico football schedule the toughest in the nation for the first five weeks of the season and it cost the Lobos dearly. What made it even tougher was the fact the Lobos spent the first month of the season on the road with three of the first four opponents being ranked in the top 15 in the nation. The Lobos opened with a win at Hawaii but lost their next four in a row before breaking the losing streak in the homecoming game against Wichita State. UNM won three of its last six games to finish the season at 5-7 overall and 2-5 in WAC play; good for a tie for sixth place in the league. Fullback Mike Williams won his second straight WAC rushing championship even though he missed the final two games due to knee surgery. Mike was a unanimous first-team All-WAC selection. Tom Ryan was the All-WAC center while Max Hudspeth, the league's punt return champ, earned all-conference honors at both defensive back and return specialist. Max finished third in the nation in punt returns while Williams was 18th in the country in

rushing. Football attendance declined in 1977 with 87,858 appearing for the five home games. The largest single game crowd was 22,064 for the Wichita State contest.

WRESTLING -- Albuquerque's Gary Hines had one of the best years ever by a Lobo wrestler, rolling to a 31-1-1 record before losing in the finals of the 142-pound division at the WAC meet. Butch Escalante closed out his senior season with a 26-3 record, but he faltered in the conference meet and didn't make the finals of the 126-pound division. One of the bright spots for the wrestling program was the huge financial success of the seafood sales project aimed at raising money to subsidize the program.

SWIMMING -- The Lobo swimmers, under first-year coach Sam Jones, faced much of 1977-78 with a depleted squad and suffered through a winless season. By the time the WAC Championships rolled around, only five swimmers were competing. UNM finished last (7th) in the conference meet with no Lobos winning WAC titles.

GYMNASTICS -- It was not a typical Rusty Mitchell year for gymnastics at the University of New Mexico. Decimated by graduation and injuries, Coach Mitchell's gymnastics team suffered through an 0-4 dual meet record with their best tournament finish being a third in the UCLA invitational. The Lobos finished fourth in the Rocky Mountain Open and fourth while fielding only an eight-man squad in the WAC championships. The conference championship was won by Arizona State with Brigham Young and Arizona also ending up ahead of UNM. Colorado State finished last behind the Lobos. The lone bright spot for the

Lobo gymnasts was the performance of little John Bernal who won the WAC still rings title and also qualified for the NCAA meet in the parallel bars. At the national championships, Bernal earned All-America status by finishing third in the still rings and fifth in the parallel bars. In November, New Mexico also hosted another very successful international gymnastics exhibition at University Arena with the Czech National Team providing the competition.

INDOOR TRACK -- Six of New Mexico's 1977-78 All-Americans came in indoor track under Coach Bill Silverberg. The Lobo two-mile relay team of Jay Quade, Mark Romero, Jeremiah Ongwae and Sammy Kipkurgat won the indoor national championship while Charles Dramiga placed fourth in the 600 and freshman Fatwel Kimaiyo finished sixth in the 60-yard hurdles to also earn All-America status. It was one of the best years ever for the WAC in the indoor championships with Texas-El Paso winning the title, BYU finishing 10th, UNM 13th and Wyoming 27th. The Lobos finished third in the WAC Meet behind UTEP and BYU with Ongwae winning the 600 for the Lobos' only individual champion in the conference meet.

SKIING -- The Lobo men's ski team combined with the women to win UNM's sixth straight Central Intercollegiate Ski League team title. Based on regional competition, the Lobos qualified five men for the NCAA nationals, which were held at Winter Park, Colorado. Representing UNM in cross-country competition was Phil Book and Filbert Montes. In the alpine competition, UNM entered Steve Yahn, Dave Sponsel and Eric Boutilier.

OUTDOOR TRACK -- The Lobo track and field team appeared headed for one of its best years ever in the spring when it emerged from the prestigious Texas Relays with the "Outstanding Team" title. However, their hopes were practically frozen solid when they entered the WAC meet in bitter cold wind at El Paso the first weekend in May. The Lobos finished a disappointing sixth in the conference meet behind UTEP, Brigham Young, Arizona State, Arizona and Utah. The biggest bright spot for the Lobos was the performance of freshman Fatwel Kimaiyo and his double wins in the 110-meter and 400-meter intermediate hurdles ranked as one of the best performances in the WAC Championships. The double victories qualified Kimaiyo for the NCAA meet at Eugene, Oregon where he placed sixth in the intermediate hurdles. Lobo Sammy Kipkurgat placed fifth in the NCAA 800 meters while Harrison Koroso was sixth in the NCAA steeplechase.

BASKETBALL -- It was the most successful-and most exciting-season ever by any Lobo athletic team as Norm Ellenberger's cagers catapulted halfway to the moon. Unfortunately, they found themselves out of gas and without a parachute three-fourths of the way there. That was when they ran into little-known Cal State-Fullerton in the first round of the 1978 NCAA basketball playoffs at Tempe, Arizona. The Titans surprised New Mexico 90-85 and knocked them out of the playoffs which kept them from playing in the West Regionals hosted by UNM the next week in Albuquerque. But, in building a 24-4 record, the Lobos did more to secure national respect and publicity for the University than any other sport before. The Lobos surfaced early in the national

wire service polls and dropped out for a short while after an upset at the hands of Southern Cal. They re-entered the polls for good in early January after ending Nevada-Las Vegas' 72-game winning streak and setting off on a tear that included 14 straight wins (the longest streak in the nation at the time) and 10 straight in the WAC. Their 13-1 record to win the league was the best record ever on WAC competition and their fourth-place finish in the United Press International poll was the highest finish ever by a WAC team. Fourteen home crowds were over-capacity with a record 310,371 Lobo Maniacs jamming University Arena to watch Ellenberger's charges "Make It Happen" in 1978. An all-time record 19,044 jammed "The Pit" to watch the Lobos beat UNLV for the second straight time. Co-captains Marvin "Automatic" Johnson and Michael Cooper lived up to their billings and reaped a basketful of awards. Johnson started things off on December 5 by pouring in 46 points against Kentucky State to break the 21-year-old single game Lobo scoring record of 45 set by the late, great Toby Roybal at Carlisle Gym in 1956 against Montana. Johnson followed that up nearly three months later by dumping in 50 points in an electrifying performance against Colorado State on March 2. Two days later, he hit for 32 points as the Lobos won the conference championship against Wyoming. That gave him 82 points for the weekend and earned him National Player of the Week honors in Sports Illustrated. Johnson won the WAC scoring championship and was the only unanimous selection on the All-WAC first team. Cooper, who was a repeat All-WAC selection, became the Lobos' second first-team All-American ever when he was tabbed by the U.S. Basketball Writers

Association. No other Lobo had received such a basketball honor since Mel Daniels in 1967. Johnson and Cooper were also All-District VII selections and combined with Willie Howard to give New Mexico its most players drafted by National Basketball Association teams. Ellenberger was runnerup in the USBWA Coach of the Year balloting and District VII Coach of the Year. The basketball press guide, edited by Sports Information Director, John Gonzales, was judged the best in District VII while the department's game program received national recognition by the College Sports Information Directors of America.

BASEBALL -- New Mexico again finished third in the WAC's Southern Division behind perennially strong Arizona State and Arizona. Vince Cappelli, in his second year at the helm, led the Lobos to a 5-12 WAC record and 31-24 overall mark. Junior outfielder, Aaron Cain, who was drafted to play professional baseball along with teammate, Steve Muccio, in June was the only Lobo voted to the WAC's Southern Division all-conference team.

TENNIS -- The Lobos struggled to an 8-13 dual meet record, but went into the conference meet with high hopes riding on the shoulders of All-American Tim Garcia, the top seed in No. 1 singles. Garcia had built a 21-2 record going into the WAC meet despite suffering a twisted knee. Garcia, however, was knocked off in the first round at the WAC meet and the Lobos finished a disappointing fifth behind co-champions Arizona State and Arizona, Brigham Young and Utah. The UNM Tennis Complex, named the Ted Russell Memorial Tennis Complex,

became operational during the year thanks to the direction and hard work of head coach, Tim Russell. All the outdoor courts were completed with the tennis stadium and clubhouse yet to be constructed.

GOLF -- First-year Coach Dwaine Knight fielded a young team with much promise for the future. However, 1977-78 was not a year without success for the Lobo golfers. For the first time in 21 years, the Lobos won their own William H. Tucker Intercollegiate Golf Tournament during the fall. UNM's top individual was sophomore All-American, Mitch Mooney, who finished third in the Tucker, second in the Air Force Falcon Invitational, ninth in the John Burns Intercollegiate and sixth in the Houston All-American Tournament. The Lobos finished third in the WAC meet behind Arizona State and Brigham Young with Mooney being the top Lobo finisher. He ended up in a tie for seventh in the WAC meet.

As the year came to a close, UNM was in the final stages of preparation for what could be its biggest coup ever. New Mexico was among three finalists bidding to host the 1983 NCAA basketball finals. Albuquerque and the University were in competition with Denver and Seattle for the rights to host the prestigious event. (It has since been announced that UNM was awarded this tournament) Regardless, UNM and the people of the State of New Mexico have already received much national attention because the entire Lobo athletic program and the recognition of UNM's proposal as one of the three best in the country. UNM has also submitted a bid to host the 1980 Far West Regional Basketball Tournament. Acquisition of

such events provide further evidence of the University of New Mexico's commitment to excellence in intercollegiate athletics.

LOBO WOMEN'S ATHLETICS

It was another exciting year for the Lobo women's ski team as UNM won their sixth straight Central Intercollegiate Ski League team title and went on to finish sixth at the AIAW Nationals Ski Championships hosted by UNM at Red River and Angel Fire, N.M. The Lobo women won the slalom event with Cindy Stone and Stephany LeMay named to the All-American team. Lobo Carol Thomas just missed the nomination when she finished seventh in that event.

Another winter sport, basketball, had a great year as the Lobos dropped their first two conference games and then went on to win 11 in a row to place third in the conference out of 14 teams. At the conference Regionals, the Lobos finished third. Coach Kathy Marpe was nominated by the other coaches as the Intermountain Coach of the Year and sophomore Jean Rostermundt made the All-Conference team.

The Lobo women's volleyball team started the year with high hopes but failed to compete in the tough Intermountain Conference while the swim team under new head coach Sam Jones, placed seventh at Regionals. The gymnastics team under Coach Claudia Thomas placed fifth at Regionals, which UNM hosted.

This was the first year for Lobo softball. The rookie team finished 21-17 overall and 5-4 on the year in conference action. The winning record placed the Lobos in a tie for third in the

league standings and gave them a berth in the Regional tourney.

The Lobos finished fourth behind Northern Colorado (second at nationals), Utah State (fifth at Nationals) and Arizona State (eighth at Nationals).

The tennis team just finished college competition as senior Therese Sullivan played in the AIAW Nationals. Sullivan lost in the first round of competition. Coach Larry Lindsay's team finished fourth in league play and spent much of their time in International circles. The Lobos returned to Mexico this year and then received an invitation to participate in a tourney in Cuba. The UNM players were the first women's team ever invited to compete in Cuba.

The Lobo track team had a good year as Susan Vigil, Virginia Middleton and Janet Wroblewski all qualified for the national cross-country meet. In the outdoor, these three and Cindy Ashby qualified to nationals. Vigil finished fourth in the 800 and Ashby sixth which qualified them for All-American status.

This was the first year that any golf team (women's) was ranked. The Lobos were tenth ranked this spring. UNM won the Judy Rankin Invitational, placed third at the Arizona Invitational and seventh at the Houston Tourney.

Three new coaches joined the staff this year. The new head track coach is Tony Sandoval, head volleyball coach is Cathy Lies (and assistant softball coach). Rick Harden will continue as the assistant basketball coach and work with the volleyball program.

APPOINTMENTS TO STAFF

Karen Jillson	- Staff Secretary	-July '77
John Gonzales	- Sports Info. Director	-Sept '77
Judy Klinker	- Administrative Secretary	-June '78
Del Jones	- Asst. Sports Information	-April '78
Sam Jones	- Swimming Coach	-Sept '77
Dean Campbell	- Asst. Football Coach	-Mar '78
Robert James	- Grad. Asst. Football	-Apr '78
Rocky Long	- Asst. Football Coach	-Jan '78
Bill Silverberg	- Track Coach	-July '77
Barry Svalberg	- Asst. Trainer	-July '77

SEPARATIONS FROM STAFF

Don McGuire	- Sports Info. Director	-Sept '77
Jayne Moore	- Administrative Secretary	-Apr '77
John R. Smith	- Asst. Football Coach	-Mar '78
Bill Canty	- Asst. Football Coach	-Jan '78
Beverly Quinlan	- Trainer	-June '78
Barbara Butler	- Track Coach	-June '78

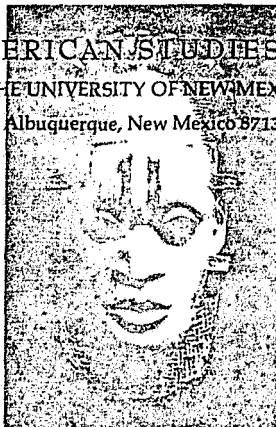
UNM ATHLETIC FACILITIES
USE OF FACILITIES

July 1977 - June 1978

<u>Facility</u>	<u>Event</u>	<u>Total Participants</u>	<u>Total Spectators</u>
Stadium	UNM Football - 5 games	867	87,858
Arena	UNM Basketball - 18 games	763	310,371
Lobo Field	UNM Baseball - 24 games	1,300	4,832
Tennis Courts	UNM Tennis - 6 dates	88	2,107
Swimming Pool	UNM Swimming - 2 dates	50	167
Stadium	UNM Track - 2 meets	100	1,542
Johnson Gym	Wrestling - 10 matches	282	3,142
Johnson Gym	UNM Gymnastics - 4 matches	112	6,121
Arena	Yugoslavia Gymnastics - once	38	7,169
Golf Course	Tucker Tournament - once	292	3,595
Golf Course	UNM Cross Country - 2 meets	45	69
Arena	UNM Women's Basketball - 16 games	380	1,501
Johnson Gym	UNM Women's Gymnastics - 1 meet	31	55
Johnson Gym	UNM Women's Volleyball - 14 games	420	268
Johnson Gym	All Indoor Intramural Sports & Johnson Gym Fields - Outdoor	43,821	12,559
Stadium	Intramural Track Championships	381	4,030
Stadium	NROTC Drills - many times	8,000	461
Arena	Sports Car Club Races - many	1,980	2,243
Arena	State H.S. Basketball	1,020	68,492
Stadium	State H.S. Football semis	110	5,251
Swimming Pool	Open use for swimming & Johnson Gym for recreational use	239,000	5,231
South Fields	YAFL Games	6,500	12,261
Arena	State drill team championships	900	1,045
Arena	Cheerleading clinic	600	1,189
Stadium	Special Olympics	1,125	5,631
Arena	Harlem Globetrotters	65	7,823
Arena	Youth Religious Conference	110	7,325
Arena	High School Graduations	3,961	15,400
Stadium	American Legion - July 4	150	23,561
Arena	PEC Concerts - 4	310	40,000
Donated Land	Little League Baseball	8,000	11,600
Lobo Field	Amateur Baseball	2,500	6,712
South Fields	Youth Soccer	3,400	4,561
South Fields	Amateur Softball Practice	900	--
Stadium	UNM Women's track - 3 meets	180	1,120
Stadium	Women's H.S. Track - 3 meets	182	1,871
Stadium	State Women's H.S. track	190	4,631
Stadium	State Men's H.S. track	215	12,591
Stadium	State H.S. All-Star Football	60	8,761
Arena	State H.S. All-Star Basketball	24	5,913
Arena	NMAA board meetings - several	200	50
Arena	NMHS Coaches Association	75	--
Stadium	YAFL Playoffs	350	4,200
Arena	1978 NCAA West Regionals	120	35,894

<u>Facility</u>	<u>Event</u>	<u>Total Participants</u>	<u>Total Spectators</u>
Johnson Gym	High School Graduations - 4	2,500	15,100
Arena	State Press Sportswriters Assn.	35	---
Arena	Albuquerque Fire Dept. Training	500	---
Tennis Courts	Open tennis to public	10,000	500
Tennis Courts	NM Open Tennis Championships	81	316
Golf Course	Albuquerque Women's Tournament	90	1,800
Golf Course	Albuquerque Men's Tournament	350	3,500
Stadium	Track - Jogging, Etc.	1,860	---
Complex	Racquetball Courts	2,500	---
Complex	Weight Room - non-UNM use	2,000	---
McDavid Room	APS Counselors	70	---
McDavid Room	UNM Admissions	250	---
McDavid Room	Alumni Board	70	---
McDavid Room	BCMC Administration	50	---
McDavid Room	Medical School Alumni	20	---
McDavid Room	Purchasing - Bid Openings	20	---
Johnson Gym	PEC Concerts - 2	110	9,450
Golf Course	Open to Public	<u>40,000</u>	<u>---</u>
TOTALS		393,323	792,798

AFRO-AMERICAN STUDIES PROGRAM
THE UNIVERSITY OF NEW MEXICO
Albuquerque, New Mexico 87131



Dr. Harold Bailey, Director
1819 Roma, N.E.
Phone (505) 277-5644
277-5645

October 27, 1978

TO: Dr. McAllister Hull, Provost
FROM: *HB* Dr. Harold Bailey, Director
Afro-American Studies
SUBJECT: Self-Study Report 1978

This enclosed information is in response to your request for information needed for the NCA Accreditation.

If I can be of additional assistance, please feel free to contact me.

Thank you.

HB/sm
Enclosure

AFRO-AMERICAN STUDIES PROGRAM
THE UNIVERSITY OF NEW MEXICO
Albuquerque, New Mexico 87131



October 27, 1978

AFRO-AMERICAN STUDIES
SELF-STUDY REPORT

I. Description:

The Afro-American Studies Program at the University of New Mexico is an academic oriented entity. The primary mission of Afro-American Studies is to provide the university with academic courses. The program is also designed to provide student services such as academic and career counseling; class scheduling advisement, tutorial assistance, provide information in regards to grants and loans; etc. Another important facet of the program is community involvement. For example, the Youth Enrichment Program is an educational and recreational program designed to provide services to young children between the ages of seven through eighteen years of age. The program is in its eighth consecutive year of operation. This youth program is being utilized to train students to become future teachers.

In addition, the primary emphasis is placed on teaching both at the undergraduate and graduate levels. Although the number of courses offered through the program can provide the university with a minor and major in Afro-American Studies, the program does not have the programmatic status to do so. Also, because of a lack of budgetary funds, the research component cannot be as effective as intended. All in all, institutional and financial support of the Afro-American Studies Program is greatly needed.

II. Structure:

The academic courses offered through Afro-American Studies are as follows:

African Politics	The Black Community
Afro-American History	Race, Racism & American
Black Experience	Law
Black Politics	Introduction to Afro-
African Literature	American Studies
Swahili I & II	Racism in Athletics
Blacks in Latin America	African Social Thought
The Black Woman	Institutional Racism
The Black Family	European Education....
Educ. Fdns. - Problem	Blacks and the Law
391, 591	

NOTE: The majority of the student enrolled in these academic courses are non-Black students. Historically speaking, the courses have provided university students with the opportunity to gain valuable knowledge and experience from a Black perspective.

III. Quality of Students:

The quality of students enrolled in these courses are similar to those students enrolled in other academic courses offered through the university. Also, the class enrollment has been consistently high each year.

IV. Quality of Faculty:

The faculty of Afro-American Studies:

Dr. Charles Becknell - Ph. D.
 Prof. Shiame Okunor - Ph. D. candidate
 Prof. Sam Johnson - Juris Doctorate
 Prof. Ivory Moore - Ph. D. candidate
 Dr. Cortez Williams - Ph. D.
 Prof. Sam Ngola - Ph. D. candidate
 Dr. Lenton Malry - Ph. D.
 Prof. Fondo Sikod - M.A., pursuing 2nd M.A.
 Prof. Raymond Hamilton - Juris Doctorate
 Prof. Joshua Maingi - Ph. D. candidate
 Dr. Harold Bailey - Ph. D., National Executive Board
 Member - National Council for
 Black Studies (3 yrs.)
 State-Chairperson - New Mexico
 Black Studies Consortium

V. Support:

1. General budget - minimal

Faculty salary

a) Historically below average salaries

2. Youth Enrichment Program - approximately \$115,000 over 5-year period.
3. Afro-American Student Emergency Loan Fund - up to \$50 emergency loan to students.

Financial base: Donations.

4. Staffing level

Director - Asst. Director - Staff Secretary

Part-time Secretary - plus

Part-time Faculty

5. No degrees awarded

6. All level of students

7. Facilities: Academic and administrative offices,
conference room, reading area.

8. At least average

VI. Future Plans:

The Afro-American Studies Program has not yet reached its full potential because of inadequate funding. The following recommendations are offered to greatly improve the program:

- A) Elevated Academic Status
- B) Program Course Listings
- C) Tenure Opportunities
- D) Student Recruitment Budget
- E) Research Budget
- F) Higher Faculty Salaries - (average level)
- G) Minor & Major in Specific Disciplines
- H) Teaching Salary for Director and Asst. Director
- I) Institution Support - Faculty

The budget needed to implement the above recommendations is an increase of fifty percent of present allocated budget. However, the increase is only the beginning of an accelerated start.

I hope the above information is considered in future university planning. If additional information is needed, please contact me. Thank you.

Report of Chicano Studies
July 1, 1977 - June 30, 1978
Tobias Duran, Coordinator

Chicano Studies programs/departments were established throughout the United States, in particular the Southwest, beginning in the latter part of the last decade. The mission and priorities of institutions of higher learning, as well as other institutions, were seriously challenged and questioned. Many believed that these institutions were not fulfilling promises to serve all of the people, but instead were assisting in the perpetuation of deep-rooted injustices. Ethnic studies programs generally speaking were established as a result of efforts on the part of students, some faculty, and concerned community people.

Chicano studies (Southwestern, Regional, Ethnic studies) has developed into an interdisciplinary field of study and concentration in the last several years. New scholarly journals, books, articles published in established journals, scholarly presentations at regional, national, and international conferences plus other related activities indicate that this area of study is now "legitimate" in academic circles, and, more importantly, can contribute significantly to the broader educational/learning process.

A truly "multicultural university" cannot exist without significant participation from different people, thus Chicano Studies seeks to make its contribution to such an endeavor.

The faculty, staff, and students involved in Chicano Studies at UNM have realized for some time that the Native American, Chicano and Black people in New Mexico "offer the University of New Mexico special opportunities and responsibilities in the areas of teaching, research, and service."

Chicano Studies in cooperation with different departments offers several courses. Courses initiated by the Chicano Studies program are subject to approval by the departments, and, if sanctioned, become part of the department's regular course offerings. Instructors are selected by both Chicano Studies and the individual department. Salaries, in general, are paid from the Chicano Studies budget, although in some cases other arrangements are negotiated.

Courses initiated, developed, and coordinated by Chicano Studies have at different times been offered by the following departments: History, Sociology, Political Science, Anthropology, American Studies, English, Spanish, Music, Philosophy and Drama. In addition, Chicano Studies courses have been taught out of Continuing Education, the Undergraduate Seminar Program, the College of Education, and in cooperation with Teacher Corps. Some courses have been taught in Spanish and in others bilingual materials have been utilized.

Chicano Studies also serves as a cultural center for many varied activities. Cultural events such as music presentations, folklore dances from Mexico, traditional New Mexican dances, poetry readings, films, slide presentations, photograph displays, and paintings plus workshops are all part of the cultural dimension of

the Center. In addition, persons and groups from Mexico, Latin America, Spain and other places interested in and working in the area of ethnic groups visit the Center. Some do so on a regular basis. More specifically, this past year a Santero from Albuquerque, New Mexico, Juan Lucero presented a lecture and slides plus a collection of fine art works.

Professor Nelson Valdez, Sociology, UNM, offered a slide presentation and narration on Cuba. He recently visited his homeland and the presentation centered on that visit.

Visiting speakers are always part of some Chicano Studies classes. In the course, American Studies 341, History of Conflict in New Mexico, several individuals participated in sharing their expertise. Anselmo Arellano, a Ph.D. candidate in American Studies, presented a lecture on the Las Vegas land grant, which is partly his dissertation topic. Dr. Jose Reyna, Spanish Dept., UNM, presented a lecture on mestizo culture in New Mexico. He was appointed associate professor in the Spanish Department in the fall of 1977. Dr. Reyna is a member of the Chicano Studies faculty advisory committee.

Among the visitors at Chicano Studies this past year were Dr. Juan Gomez-Quinones, Chicano historian at the University of California at Los Angeles and Dr. Feliciano Rivera, another Chicano historian at San Jose State University in California. Informal discussions were the order of the day.

Guillermo Chavez from San Diego, California, presented several workshops throughout Albuquerque on Aztec dancing, history and folklore, and was sponsored by Chicano Studies.

The Chihuahua, Mexico, ballet folklórico performed at Popejoy Hall, UNM, La Joya and Santa Fe. Chicano Studies co-sponsored this group.

Several student organizations - a health sciences group, a business service club, a peer counseling group, a cultural affairs club, a boxing club, a music club, among others - use the Center's facilities, and, Chicano Studies faculty/staff assist them in various ways. Chicano Student Services also uses office space at the Center. All Chicano Studies faculty/staff also serve in a general capacity as advisors, counselors, and ombudspersons.

The proliferation of resource material which includes volumes, journals, films, tapes, newspapers, reprints, etc., has made it necessary to plan for the establishment of a resource center. The primary purpose of this sub-unit will be to gather, systematize and disseminate materials. To accomplish this we applied for a CETA position and were successful in securing the services of a person with a M.L.S. degree whose primary responsibility will be to develop such a resource center.

The Chicano Studies Center provides many "miscellaneous" services to people within UNM and outside UNM. The faculty/staff/students provide translation services, serve as hosts to high school students, teachers, counselors, librarians, and others interested in learning more about this interdisciplinary field of study. Because of the relative unfamiliarity with the materials available and the area of study in general the faculty/staff are involved in the continual process of relaying pertinent information.

The coordinator and others also travel to different high schools throughout New Mexico also to disseminate information about UNM in general and Chicano Studies in particular.

Chicano Studies also cooperates with units within the University, such as Teacher Corps, the Multicultural Education Center, and with individual professors, graduate students, teaching assistants, and other interested in developing curriculum relative to ethnic studies.

Chicano Studies has always been host to recruiters from several universities as well as employment recruiters. This past year was no exception. Publicity, facilities, etc., are provided by the Center.

Also this past year Chicano Studies co-sponsored, along with the Mexican American Law Student Association, a graduation farewell to UNM law students. Tobias Duran was a speaker at that function.

A recent positive development in the organization of a faculty committee. Generally speaking, this group will work with the coordinator, make recommendations, propose new courses or programs, serve as liason with academic departments, the administration, and be responsible for overall development. It must be emphasized that this group is unofficial at this time, although we hope it will become official in the near future. Some faculty that have demonstrated willingness to serve are Dr. Jose Reyna, Spanish, Dr. Richard Griego, Chairperson, Mathematics and Statistics, Dr. Antonio Marquez, English, Dr. Luis Ortiz-Franco, Graduate School, Rudy Anaya, English and Dr. David Sanchez, Mathematics

and Statistics. All of these faculty members bring to this committee very valuable expertise, experience, and talents which cannot but be a significant contribution to Chicano Studies. This is only a tentative list of people and others may be added at the appropriate time.

Hopefully this committee, once it begins work, will help to deal with certain problems in a more creative and imaginative manner.



October 18, 1978

TO: McAllister H. Hull, Jr.
Marvin D. Johnson

FROM: Gearld Hobson, Acting Coordinator
Junella Haynes, Co-Assistant Coordinator
Robert D. Mondragon, Co-Assistant Coordinator

SUBJECT: Mission and Future Plans of Native American Studies Center

As you are most likely aware, Native American Studies is a program that is divided into two components -- one which is academic, and the other which is concerned with student support services.

ACADEMIC COMPONENT

The academic component is concerned with curriculum development, the listing and placing of courses in the Schedule of Classes each semester, and the hiring of N.A.S. faculty. The component is presently administered by Gearld Hobson, the Acting Coordinator of N.A.S. and a lecturer in English. In addition to his duties as Acting Coordinator, Hobson also teaches two classes each semester.

The classes offered in N.A.S. are under the auspices of other departments, such as English, American Studies, Anthropology, etc. - but only in terms of course number. N.A.S., quite realistically, feels that it should be able to continue to offer our point of view and store of information to the University curriculum, but until which time we can have our own course numbers, we must

necessarily have our courses offered as "English 400-Native American Literature," instead of "Native American Studies 400-Native American Literature".

We have a small core of solid courses: Native American Literature (2 semesters), Southwest Indian Lifestyles, The Five Civilized Tribes, The Indian in American Popular Culture, Reservation Economic Development, The Indian in a Multi-Cultural Setting, and Current American Indian Problems.

Some of our part-time faculty during the past couple of years include Duane T. Bird Bear, Rina Naranjo Swentzell, Paula Gunn Allen, Gearld Hobson, Bettie J. Rushing, Klara Kelley, Velma Garcia, D.C. Cole, and Junella Haynes. Instructors in other departments whose courses we cross-list include Leslie Marmon Silko (English), Revees Nahwooskie (Public Administration), and Helen M. Bannan (American Studies). At present we maintain close associations with the departments of American Studies, English, Anthropology, Division of Public Administration, Political Science, and Economics.

We feel it is essential to maintain our academic component. We feel our courses provide an alternative viewpoint, one that is Native American in focus and content. Despite President Davis' memoranda urging the implementation of affirmative action in all levels of the University community, we feel that little or nothing has been done -- especially as it applies to academic departments and their hiring of Native American faculty or the recruitment of Native American graduate students. Given these realities, we remain adamant in our insistence that courses designed by Native Americans, taught by Native Americans, and maintained by Native

Americans not only be continued but expanded. We will take up this matter below under the heading of Future Plans.

STUDENT SUPPORT SERVICES COMPONENT

The Student Support Services component presently has one full time counselor and two Co-assistant Coordinators. The Special Services program for disadvantaged students (funded by the Office of Education) employs Betty Ojaye, who is housed in our Center. Betty Ojaye, a Navajo, is the liaison person between the University and the Navajo Tribal Scholarship Offices, the Navajo on-site Teacher Training Program, and all programs relating to Navajo students. Navajo students comprise almost one-half of the Native American student enrollment at the University. Ms. Ojaye is housed in our Center as the Office of Education, Region VI, Dallas, Texas, determined that our Center was the maximum point of service for Indian students.

Robert Mondragon, Taos Pueblo, Co-Assistant Coordinator, is funded by U.N.M. as a result of Junella Haynes, Co-Assistant Coordinator, working half-time and Mr. Hobson taking a \$2,000 cut in his salary. Mr. Mondragon's responsibilities include working as a counselor and supervisor to the counselors housed in the N.A.S. Center. He is also responsible for half the administrative work done in the center. He has been with the program since the Fall of 1976.

We have applied for two other counselor positions through the National Indian Youth Council CETA program and have been notified that we will receive these two CETA positions and can begin hiring by August 15, 1977. These positions are for one year. We want

to use one counselor position for recruitment of Native American students and the other one for financial aid counseling. The Native American population in the state is around 10% but the Native American student enrollment is only 2% so we plan to develop a student recruitment program which will be much more comprehensive than what we presently have. We have a constant need to augment our staff and have had to seek outside funding to do so.

Since most of our students receive tribal scholarships our Center is very much involved in scholarship and financial aid counseling. We work closely with Virginia Edgar, Associate Director of Financial Aids, and Nancy Erickson, in coordinating the various scholarship programs. Our students come from many States in the U.S. and we are in communication with all of these tribal offices and tribal scholarship programs, as well as various foundations, government agencies such as BIA, HEW-Office of Education, United Scholarship Services, etc.

All students support services are co-coordinated and under the co-supervision of the other co-assistant coordinator, Junella Haynes. Since 1971, when the Native American student enrollment was approximately 186 students, the enrollment has increased substantially. It is difficult to determine precisely what the enrollment is as many Native American students do not fill out the ethnicity information at the time of registration. In one semester alone, the Financial Aids Office counted 900 separate financial aids transactions involving Native American students, so it is our feeling that there are probably more Native American students than appear on the ethnic alpha listing compiled by the Data Processing Center. We believe that we have the largest Native American

student enrollment of any major institution of higher learning in the United States.

Because our Center works closely with all the tribal scholarship offices, we are involved with practically all of the Native American students on campus. Therefore, we need an adequate counseling staff to handle these numbers of students. We have good working relations with the various units on campus, i.e., Admissions, Financial Aids, etc., and they always refer Native American students to us. We also work closely with Dean Brodkey of the English Tutorial Program and Sven Winther of the Counseling Program. Probably because of the cultural differences, the Native American students prefer to come to our Center for student support services and as the enrollment increases (and there is every indication that it will continue to increase) we must expand our support services component to meet the needs of the Native American students.

Both components in our Center provide various services to the Native American community although we need to do much more. We applied for and obtained five CETA positions and have reactivated the American Indian History Project in order to develop curriculum and supplementary materials such as video and audio tapes, slide histories, etc., for use in our courses. The American Indian History Project was initially funded by the State Department of Education. These funds provided us with audio visual equipment - three black and white video tape cameras, a VTR porta-pack, etc., slide projector, photography equipment and tape recorders. The students involved in this project have developed a library of tapes, slides, photographs, etc. dealing with Native American

history in the Southwest. We plan to develop a proposal to submit to the National Endowment for the Humanities as well as other private foundations with the long range goal of creating a media archival center for the Southwest. The purpose of the American Indian History Project is many fold. We want to develop curriculum with an Indian point of view as well as provide an opportunity to the students and the community for research and to increase knowledge about the complex history of the Southwest -- for all people.

FUTURE PLANS

Academically, despite the moratoria placed by various departments on the developing of new courses, we intend to do just that: we will continue to develop new courses with the design of expanding our academic component. We foresee courses in Navajo history and culture, Native American tribal government, perhaps a further expansion of the current course Reservation Economic Development, much more of Native American fine arts, and Indian law.

Services-wise, we hope to do more outreach into the Indian communities and high schools. With the expansion of our counseling services we feel we can at last begin to accomplish this task.

We are also concerned about the overall future of the Native American Studies program and center. We are eager to begin personal discussions with you as soon as possible concerning our place in the often talked about Southwest Studies Institute. We are anxious to offer ourselves for whatever meaningful dialogue might come out of such meetings. We feel that N.A.S. cannot continue in the future as a mere program in the University community. Short of becoming a department or part of a separate division within the

university, we feel the Institute proposal is the best alternative for us in the future. The cynical suggestion of absorbing our program into the already existing departments is totally repugnant to us. Not only is such an alternative repugnant, it is regressive and discriminatory.

Given the fact that New Mexico and Albuquerque specifically, is rapidly becoming, next to Washington, D.C., the center for many national Indian issues and concerns, we feel U.N.M. should be able to reflect this. It is sad to say that U.N.M. does not reflect this awareness, but we believe with encouragement and support, we can begin to make U.N.M. into an academic center for Indian concerns.

There are many more things we hope to talk with you about in the immediate future and we are looking forward to meeting you personally.

DIVISION OF CONTINUING EDUCATION
AND
COMMUNITY SERVICES

ANNUAL REPORT
1977 - 1978

DR. RUPERT A. TRUJILLO
DEAN

The University of New Mexico
Albuquerque, New Mexico 87131
Phone: (505) 277-2931

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DEAN'S OFFICE REPORT

DIVISION STAFF

Division personnel, as of July 1, 1978, consists of the following individuals:

Rupert A. Trujillo	Dean
Patricia A. Hauser	Assistant Dean
Nathaniel Archuleta	Director, CDA/HSST
Victoria M. Burke	Clerical Specialist IV
Christina E. Calcutt	Clerical Specialist IV, CDA/HSST
Rosemary Chavez	Clerical Specialist III
Marijo Fink	Program Specialist II
Lorraine M. Gutierrez	Clerical Specialist IV
Rena C. Griego	Clerical Specialist IV, Eastern Valencia County Satellite Center
Lonnie G. Juarez	Coordinator, Eastern Valencia County Satellite Center
Carmen Maestas	Clerical Specialist III
Ann L. Nelson	Program Specialist III
Anthony A. Oliver	Program Specialist IV
Sylvia I. Ortiz	Program Specialist III
Janet R. Parker	Registrar
Sara Reed	Clerical Specialist IV
Joyce Robbins	Conference Coordinator
Eloy L. Romero	Director, Eastern Valencia County Satellite Center
Ronald S. Shibata	Accounting Manager

Marge J. Soper	Clerical Specialist V
Deborah K. Suttie	Clerical Specialist IV
Roland H. Tovar	Program Specialist IV
Delia M. Urioste	Administrative Secretary
Eva M. Valenzuela	Clerical Specialist III

Terminations and/or Resignations

Sandra Valdez, Clerical Specialist IV, March 31, 1978
 Marge Lalicker, Registrar, May 12, 1978
 Suzie P. Lopez, Clerical Specialist, January 20, 1978
 Milton Garrett, Assistant Dean, January 31, 1978
 Ilse Gay, Assistant Dean, June 30, 1978
 John Giesler, Assistant Dean, June 16, 1978
 Carol Guerrero, Clerical Specialist IV, May 24, 1978

New Employees, Replacements and/or Changes

Victoria M. Burke, Clerical Specialist IV, June 12, 1978
 Christina E. Calcutt replaced Sandra Valdez, March 27, 1978
 Rosemary Chavez replaced Lorraine Gutierrez, June 5, 1978
 Marijo Fink replacing Maria Esquibel, July 1, 1977
 Lorraine M. Gutierrez replaced Carol Guerrero, May 24, 1978
 Rena C. Griego, Clerical Specialist IV, April 3, 1978
 Patricia Hauser replaced Milt Garrett, February 1, 1978
 Carmen A. Maestas, Clerical Specialist III, August 26, 1977
 Janet R. Parker replaced Marge Lalicker, June 5, 1978

Sara K. Reed replaced Janet R. Parker, June 12, 1978

Roland H. Tovar replaced Patricia Hauser, May 8, 1978

Eva M. Valenzuela, Clerical Specialist III, August 10, 1977

UNIVERSITY STANDING COMMITTEE

Continuing Education University Standing Committee membership comes from various academic departments. The functions and duties of the committee, which are found in the Faculty Handbook, are as follows:

The Continuing Education Committee has responsibility for formulating and maintaining the general policies regarding branch campuses, 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 services programs of the University, as well as the operational policies of the University properties associated with the continuing education and community services programs, and other matters worthy of attention pertaining to the operation of the division. The Committee evaluates budgetary policy and operation of the division and advises the Vice President for Academic Affairs on these matters. It is also a function of the Committee to advise the President in regard to any new appointment of a Dean of the Division of Continuing Education and Community Services.

Standing Committee membership for the 1977-78 fiscal year consisted of the following:

CHAIRMAN

Dr. R. Wayne Pace, Speech Communications

FACULTY REPRESENTATIVES

Charles Biebel, American Studies
Laura Cameron, Mathematics
Ronald Knief, Chemistry and Nuclear Engineering
Patricia Murphy, Modern and Classical Languages
Leroy Ortiz, Elementary Education
William Runge, Secondary Education
Ednell Snell, Home Economics
Roland Watkins, Pharmacy

STUDENT REPRESENTATIVE

Nancy Drew Taylor

EX-OFFICIO REPRESENTATIVES

Ilse Gay, Assistant Dean, Continuing Education
John Giesler, Assistant Dean, Continuing Education
Patricia Hauser, Assistant Dean, Continuing Education
Marvin "Swede" Johnson, Vice President for Student
and Campus Affairs
John Perovich, Vice President for Business and
Finance
Rupert A. Trujillo, Dean, Continuing Education
Paul Vassallo, Dean, Library Services
Robert Weaver, Dean, Admissions and Records
Joseph Zavadil, Chairman, English Department

STUDENTS ENROLLED IN CONTINUING EDUCATION

TABLE I

(1974 - 1975)

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	5644		
Non-Degree	6125		
Gallup Branch	2275	2275	2275
Northern Branch	2241	2241	2241
Extension Program	2943	2943	
Head Start Training	295	295	
Conferences, Institutes & Short Courses	965		
Independent Study Program	356	356	
TOTALS:	20,844	8,110	4,516

TABLE III

(1976 - 1977)

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	7410		
Non-Degree	7667		
Gallup Branch	2377	2377	2377
Northern Branch		NOT AVAILABLE	
Extension Program	3909	3909	
Head Start Training	56	56	
Conferences, Institutes & Short Courses	2750		
Independent Study Program	644	644	
College Preparatory Program	268		
TOTALS:	25,081	6,986	2,377

TABLE II

(1975 - 1976)

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	6721		
Non-Degree	7165		
Gallup Branch	2495	2495	2495
Northern Branch	2489	2489	2489
Extension Program	2988	2988	
Head Start Training	211	211	
Conferences, Institutes & Short Courses	5345		
Independent Study Program	400	400	
College Preparatory Program	343		
TOTALS:	28,157	8,583	4,984

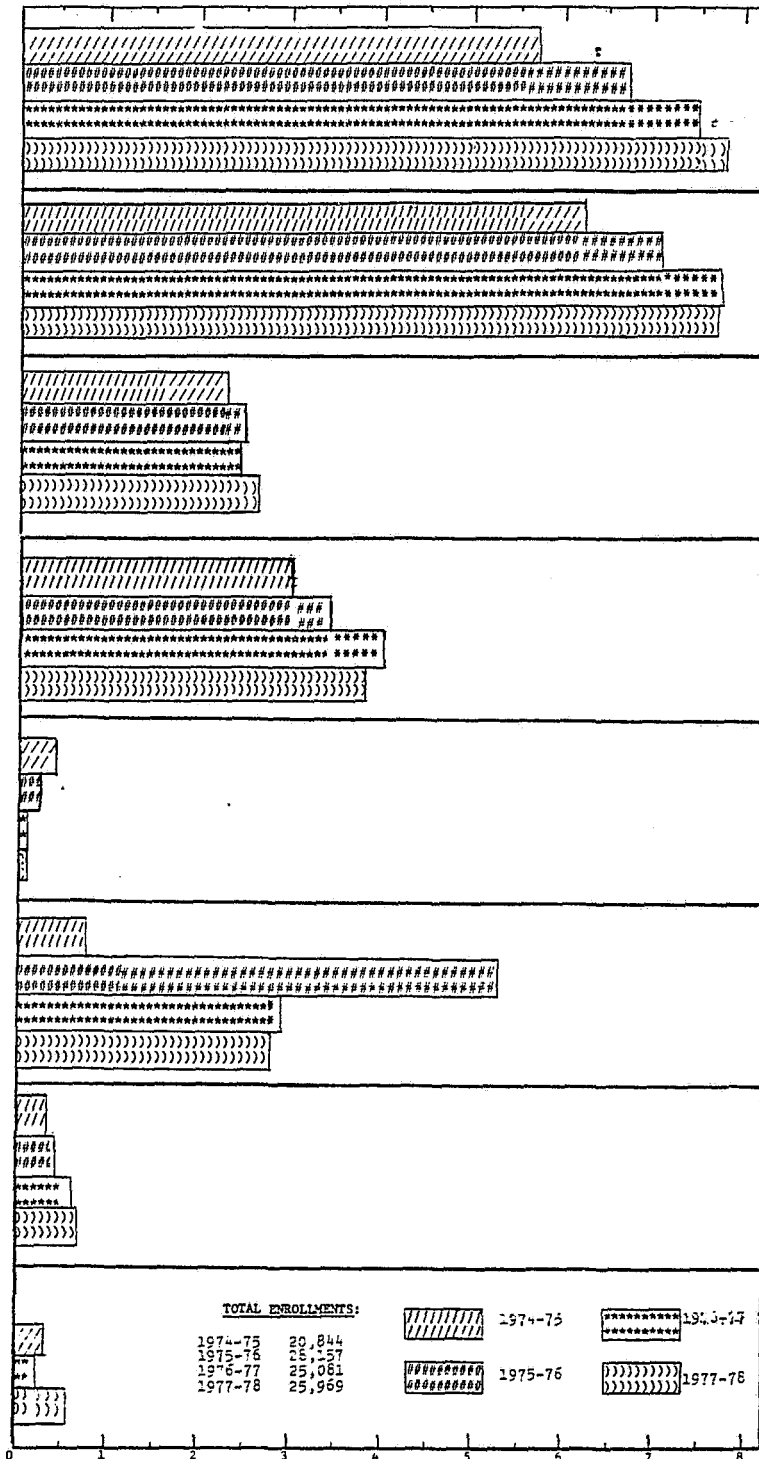
TABLE IV

(1977 - 1978)

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	7867		
Non-Degree	7645		
Gallup Branch	2659	2659	2659
Extension Program	3766	3766	
Head Start Training	72	72	
Conferences, Institutes & Short Courses	2522		
Independent Study Program	749	749	
College Preparatory Program	689		
TOTALS:	25,969	7,246	2,659

TABLE V

042

Community CollegeNon-DegreeCallup BranchExtension ClassesHead Start TrainingConferences, Institutes & Short CoursesIndependent StudyCollege Preparatory ProgramNumber of students
by thousands

DEAN'S OFFICE REPORT

Since assuming the position of chief administrative officer of the Division of Continuing Education and Community Services a primary goal has been the development of a responsive posture to the non-traditional educational needs of the community through quality educational programs.

The Division had a number of well established programs: Community College providing non-credit courses, avocational and recreational courses; Extension and Independent Study providing credit courses; and Conferences and Institutes responding to the continuing education needs of professional members of our community. These programs provide the bulk of educational services requested by the community and generate the major portion of the revenue necessary to make the Division fiscally self-sustaining. These functions are adequate but not sufficient to respond to the ever-expanding number of requests for educational services, technical assistants, program development and increasing administrative responsibilities of the Division. The Office of Development under the dean was formed to expand administrative, developmental, programmatic, technical assistance and community service activities.

The following activities are examples of activities

involving the Office of Development and Dean's office.

BRANCH COLLEGES

Planning associate degree programs and strengthening the relationship between the Gallup Branch and UNM academic departments consumed time and effort. The results of these efforts is demonstrated by the fact that the Gallup Branch now is in position to offer six associate of arts programs. The Provost decided to have the Branch report directly to his office effective July 1, 1978.

On another front, the Provost asked the Division to respond to citizens of Eastern Valencia County's request for post-secondary education. Accordingly, considerable energy and effort was devoted to this activity. As a result, the Belen Center opened its doors for Fall of 1978 with some 170 students. About twenty-five of these were students who enrolled in sufficient number of credit hours to be considered full-time students. The enrollments at this center confirmed the idea that many adults are interested in continuing or furthering their education if provided the proper format and opportunity.

HARWOOD FOUNDATION

At long last the Harwood Foundation has the potential of becoming a true community center. The restoration of

90% of the facility was completed in August. Open house ceremonies took place on September 15, 1978. The Children's Library was one of the major achievements of this activity. Citizens of Taos were busy raising funds to complete several unfinished projects. For example, EDA funds ran out before the security system was installed. The Alcalde Building interior was left untouched. Thus, local funds will serve to complete these kinds of projects.

COMMUNITY SERVICES AND TECHNICAL ASSISTANCE ON-CAMPUS

UNM decided to expand on-campus evening courses; therefore the Division discontinued offering credit courses in these areas. It may be that in the future this concept will prove to be highly effective.

College Preparatory Program

The College Preparatory Program was established during the 1975-76 academic year to assist students denied admission to remediate academic deficiencies and to assist students in improving their academic skills. Approximately 30% of the students in the program were students who were enrolled in regular status at UNM and had elected to take these non-credit courses.

The new UNM entrance requirements effective for Fall 1977, presented a new problem and a new student to the

program. Students graduating after February 1977 and seeking enrollment at UNM for Fall 1977 had to meet subject matter requirements or be denied admission. The entrance requirements specified that students could remove these subject matter requirements by enrolling in the appropriate course with the Division. However, the Division had no courses to remove Natural and Social Science subject matter deficiencies.

A basic program of instruction in the four subject matter areas of English, Mathematics, Natural Science and Social Science was also under consideration. The program for basic instruction as proposed by Associate Provost Clinton Adams was not developed and in late February this office developed and submitted to the office of the Provost an expanded College Preparatory Program. The program as written was multi-purpose. It could be used as a program of basic instruction for students that were weak in academic skills but met entrance requirements; students that were not admissable to UNM under the new entrance requirements; and students who wanted to refresh their basic academic skills. The program was approved and instituted for Summer 1977.

The program has continued to attract large numbers of students so that Fall of 1978 saw some 600 students enrolled in day and night time PREP courses.

University Center Program - BARC

Funding for this activity was cut back, therefore, Continuing Education involvement was pulled.

Continuing Education in Nursing

Continuing Education needs in nursing are becoming greater. Lack of funds still prevent effective programming which is so desperately needed. Continuing Education and the College of Nursing continue to work jointly in efforts to respond to continuing education needs.

UNM Law School

It appears as if the rural legal aid project is about to bear fruit as of this writing.

College of Fine Arts

This College and Continuing Education are working effectively as joint partners. A full program was designed and completed in Italy during Summer 1978.

A national dance workshop was also jointly sponsored. This first time effort provided real learning experience in conducting joint credit and non-credit activities.

The Summer Music Camp was again administered through joint efforts. Enrollments were the largest ever.

Certification in Bilingual Education

The Division worked closely with the Department of Modern and Classical Languages to design a language proficiency examination for bilingual teachers. Innovative, optional modes of examining were agreed upon. As a result, a state-wide common examination will be used by all four-year institutions.

Teacher Corps

The new cycle of Teacher Corps was funded for a five-year period. Continuing Education time and effort was devoted to this worthwhile activity.

COMMUNITY SERVICES AND TECHNICAL ASSISTANCE OFF-CAMPUS

A number of community services and technical assistance activities were also conducted off-campus. These are listed with little detail provided.

New Mexico Department of Health and Social Services planning continues. With the cooperation and expertise of a faculty member from Sociology, women inmates are enrolled in a non-credit course.

Facilities for the Peanut Butter and Jelly School can no longer be provided by APS for this fine community school. Considerable time and energy were devoted to the identifica-

tion and lease purchase of a new home for PB&J. Currently, the dean is heading up a fund raising drive where the goal of \$500,000 has been set.

Several minority groups and individuals throughout the state request assistance and consultation from this office. This office, for example, provided assistance and consultation to the AMIGOS in Torrence County and COPAS in Santa Fe.

Considerable activity has been generated between the Hispano Chamber of Commerce and Continuing Education. A number of TV shows were jointly sponsored.

The dean of the Division participates in a number of national policy and advisory boards that set direction and policy in the area of education.

Some of the activities included:

- A) Member of the Time and Site Committee of NUEA.
- B) Member committee of the future of NUEA.
- C) Chairman-Region VI of NUEA.
- D) Special advisor to Teacher Corps for curriculum development.
- E) Member of Review Committee for Applied Management Sciences, Children's Television Workshop and University of Maryland. These groups combined will produce twenty half-hour television shows on parenting.

The dean is also being considered for a White House

appointment to the National Council of Continuing Education.

In March of 1978, the Division's organizational structure was changed. Separation of program from operations was the major change. This change will be recognized as a valuable activity as centralization of records and fiscal matters will render a much more efficient unit.

Certificate programs will continue to receive critical review and new programming.

The D.H. Lawrence Ranch is the next big new project.

Continued support for the Belen operation will consume considerable time and effort.

Always, efforts for more and better facilities for Continuing Education remain on the front burner.

BUREAU OF CONFERENCES, INSTITUTES
AND
SHORT COURSES

BUREAU OF CONFERENCES, INSTITUTES AND SHORT COURSES

Another aspect of non-credit programs is the Bureau of Conferences and Institutes. Only thirty-three (33) activities were held this year as compared to fifty-one (51) activities in 1976-77; however, the number of participants served per activity increased from fifty-three (53) to seventy-nine (79).

Total number of participants in 1977-78 was 2,522 as compared to 2,750 in 1976-77.

<u>MONTH</u>	<u>TITLE</u>	<u>PARTICIPANTS</u>
July 6-8	AAAS - Workshop	21
July 18-19	In Situ	130
July 21	4th Annual ASTD Film	66
	Music Experience	
Sept. 12-Nov. 28	Medical Terminology	50
Sept. 13-Nov. 2	Energy Conservation Code	130
October 4-6	NUEA Region VI	82
October 10	Purchasing Seminar	82
Sept. 30-Oct. 1	Family Counseling	120
October 29	Prep for Civil Service	28
Oct. 31-Nov. 1	Effective Coping	102
Dec. 5-9	Tax Practitioner	98
November 2	Sales Strategies	220
November 3	Business Growth	
Jan. 23-April 10	Medical Terminology	49
January 13-14	Land Surveyors	120
February 7-March	Open Math	45
February 10-11	3rd Annual Rocky Mountain Fuel	63
February 16	Key to the Executive Washroom	37
March 13-17	Numerical Asympt.	42
March 9-10	State Conference on Continuing Education	107
March 28-30	Water Law	189
April 26-29	AAAS	189
April 4-6	Motor Fleet	26
April 7-9	Nurse Anesthetists	42
April 17-18	Effective Coping	79
April 13-May 18	Physical Assessment Skills - Nurses	24
May 8	Nurse Refresher	
June 1-2	In Situ	106
June 9-11	3rd Annual Writers Conference	110
June 25-July 28	La Romita - Art	11
June 12-30-July 3-21	UNM Summer Dance	46
June 12-16	American Guild of English Handbell Ringers	108
		<u>2,522</u>

CHILD DEVELOPMENT ASSOCIATE/HEAD START
SUPPLEMENTARY TRAINING PROJECT

CHILD DEVELOPMENT ASSOCIATE/HEAD START
SUPPLEMENTARY TRAINING PROJECT

The Child Development Associate/Head Start Supplementary Training project contract was renewed by the Office of Human Development, HEW in Dallas, Texas for August 1, 1977 to July 31, 1978. Under this contract, the project in the Division of Continuing Education, provided CDA training for Head Start personnel who had primary responsibility for a group of children in a child development center. There were thirty-five (35) Child Development Associates registered during the Fall 1977 semester, and a total of forty (40) CDAs registered for the Spring 1978 semester. The program for these CDA trainees consisted of a competency based, individual Early Childhood training concept which strived to enhance the trainees competencies in six (6) major areas. This is the second year that this type of program has been in operation through the Division since the transition from the traditional Head Start Supplementary Training type of program.

Throughout this past year, much of the time has been devoted to working with the CDA trainees at their centers. Trainees also travel to Albuquerque on several occasions during each semester to attend intensive training sessions here at UNM. Each CDA trainee was registered for at least seven (7) hours of credit while working towards their CDA

credential. During this contract year, a total of ten (10) CDA trainees went through the assessment process, and all were found competent. Many of those trainees, who have not completed the assessment procedures, will be taking course work during the summer semester, and will be able to complete the assessment process either Fall 1978 or Spring 1979 semesters. This will be significant to those New Mexico Head Start programs we are working with because it provided an opportunity for all to begin to meet the new regulation procedures. By 1981 each of our programs will be able to meet the new federal regulations because of the type of representation that each program was able to have during these initial years in CDA training. Table I provides information, identifying the Head Start programs served by UNM, the number of credits earned and the number of trainees receiving their CDA credentials.

Another important segment of the program provided services to Head Start personnel classified as "Protected Students." These students were able to take course work which would apply toward the degree for which they were protected. A total of fifteen (15) protected students registered during the Fall 1977 semester. Ten (10) protected students registered for course work towards their degree program during the Spring 1978 semester. Protected students were advised of their program of studies and the

courses needed for meeting those requirements for their protected degrees. Four (4) "protected students" finished all of the requirements for their BA degrees and graduated, exiting the program during this contract year.

A total of 273 credit hours were earned by all students during the Fall semester and a total of 263 credit hours during the Spring 1978 semester. The number of credit hours earned through the CDA/HSST program is significant in that many more Head Start employees, who work with young children in outlining communities, are more able to receive extensive training in their field of work. Project personnel worked directly with thirteen (13) grantee agencies throughout New Mexico. CDA trainees were employed at twenty (20) different centers located throughout the state. This made the program somewhat difficult because of the area to be covered and the funds needed for travel.

Table II presents the number of trainees enrolled in course work during the Summer 1978 semester. These students are a combination of both CDA and protected students.

The past year was extremely successful in terms of evolving the CDA concept and providing an opportunity for participation to many grantees. Because of this participation and the number of CDA trainees credentialed the training program is termed extremely successful in providing

057

effective training towards the enhancement of competencies
of Head Start teachers and teacher aides working with
young children.

Head Start Program	CDA Trainees	Protected Students	Credit Earned	Credentialed CDA's	Graduated
Acoma	4	1	28	-	-
Albuquerque	5	-	27	1	-
Eight Northern	4	-	15	1	-
El Grito	5	-	61	3	-
Dulce	-	1	3	-	-
Isleta	9	-	104	2	-
Laguna	2	7	123	-	4
Mid West	6	2	68	2	-
Sandoval County	2	-	14	-	-
San Juan County	3	-	35	1	-
Santo Domingo	2	-	26	-	-
Zuni	-	2	8	-	-
Six Sandoval	2	6	24	-	-
Total	44	19	536	10	4
Total Individuals Participating	63				

Summer 1978 Enrollment

Head Start Program	CDA Trainees	Protected Students	Hours Registered for
Albuquerque	2	-	13
Isleta	2	-	6
Mid West	4	-	18
Sandoval County	1	-	8
Laguna	-	2	6
Six Sandoval	-	2	6
Total	9	4	57

COLLEGE PREPARATORY PROGRAM

COLLEGE PREPARATORY PROGRAM

The College Preparatory Program is designed to assist students who: are denied admission to UNM because of academic and/or subject matter deficiencies; have been out of school for a number of years and wish a refresher course; or feel their academic skills are insufficient for a successful experience at UNM.

In response to new UNM Admission requirements the College Preparatory Program was expanded in Summer '77 to include two new courses: Natural Science Readings and Social Science Readings. These were added to the existing mathematics and English courses.

The majority of students enrolling this past year were those with high school subject matter deficiencies. As a result a large percentage of (older students and community people) dropped from the program. Efforts are under way to encourage increased participation.

The table below reflects the program's enrollment for the past three years.

ENROLLMENT

Number of Students Enrolled

<u>75-76</u>	<u>76-77</u>	<u>77-78</u>
343	268	689

CREDIT CLASSES

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 Summer Session 1977 credit courses offered through the Division in Bernalillo County are considered resident credit. Division personnel visit the class site and have students complete all registration procedures,

including payment of fees. Registration forms and admission 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 do not appear to be unique with this Division and progress is being made in attempts to overcome them.

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.

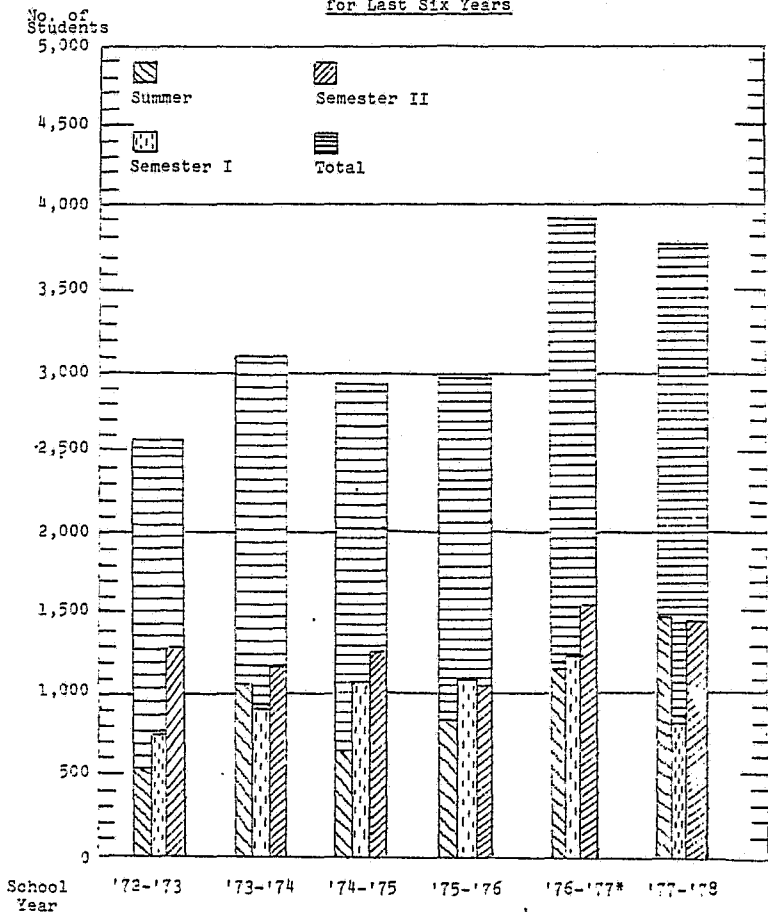
The general policy this Division has followed is that credit courses will be established anywhere sufficient demand warrants. The figures listed in Table I indicate; location of classes, number of classes, and number of students for classes offered during Summer Session 1977 through Spring term 1978. Albuquerque is listed twice to reflect extension enrollment and resident enrollment.

TABLE I

Location of Class	Number of Classes	Number of Students
Alamogordo	3	40
Albuquerque (Extension)	3	23
Albuquerque (Resident)	91	1969
Abiquiu	2	68
Belen	4	59
Bernalillo	4	34
Camp Luna	1	6
Chama	6	205
Cibola	1	19
Cuba	1	40
Dulce	1	17
Elephant Butte	1	41
Espanola	3	43
Estancia	1	19
Farmington	4	57
Gallup	6	150
Ghost Ranch	3	17
Jemez	2	17
Jemez Pueblo	1	8
Laguna	1	1
Las Cruces	2	62
Las Vegas	1	2
Los Alamos	3	39
Los Lunas	5	133
Maxwell	1	39
Mescalero	8	101
Montano	1	19
Paria Canyon	2	20
Pojoaque	1	14
Portales	1	1
Roswell	1	2
Santa Fe	12	223
Socorro	2	27
Taos	17	174
T or C	2	44
Tierra Amarilla	3	33
<hr/>		
Extension (Subtotal) = 35	108	1797
Resident (Subtotal) = 1	91	1969
<hr/>		
Total :	36	199
		3766
<hr/>		

4% decrease deviation from 77-78

TABLE II
Enrollment for Credit Classes
for Last Six Years



*Total includes Resident Students

TABLE III
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	130.4	112.1	149.1	195.8
1976-77 R	43.8	88.9	82.0	107.4
1976-77 T	174.2	201.0	231.1	303.2
1977-78	213.47	145.2	241.3	300.0

1974-75 was the first year for which FTE Statistics were reported. FTE by semester is calculated by dividing the student credit hour production by fifteen (15). The entire year FTE is calculated by dividing the total student credit hour production by thirty (30).

This past year a total of 199 classes were offered at thirty-six (36) locations to 3,766 individuals (91 classes offered at thirty-three (33) locations to 3,909 individuals during 1975-76.

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 the Division and the 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. Three 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 are enrolled in Teacher Education Centers were, in the past, enrolled as extension students. Also, two years ago, 1975-76, a Graduate Resident Center was established in Santa Fe. Many of the students enrolled in the Resident Center were previously extension class students.

Therefore, when all aspects of the Division's activities and the activities of others in credit activities is considered, it is readily apparent that the service to the off-campus community has increased tremendously.

GALLUP BRANCH

GALLUP BRANCHFaculty/Staff Resignations:

FANNIE BAKER, Clerical Specialist III, Community Services and Continuing Education, June 30, 1977

DIANA STONE, Clerical Specialist V, Student Services, May 12, 1978.

Faculty/Staff Additions and Changes:

MARY CARLISLE, Clerical Specialist II, Switchboard/Clerical, November 29, 1977

RICHARD EASTRIDGE, Custodian (part-time), March 17, 1978

GLEN GABEHART, Associate Director, Academic/Vocational Instruction, September 1, 1977.

LYNNE GRANGER, Clerical Specialist IV, Student Services, May 1, 1978.

LURAE MCCOLLUM, Program Specialist IV, Financial Aids, August 1, 1977.

CALSUE E.T. MURRAY, Program Director, Adult Basic Education to Lecturer II Elementary Education, November 1, 1977.

CAROL PEREZ, Clerical Specialist III, Community Services and Continuing Education, July 7, 1977.

LORETTA QUINTANA, Clerical Specialist II, Switchboard to Clerical Specialist IV, Academic/Vocational Instruction, November 1, 1977.

THOMAS GRANT RAY, Evening Coordinator and Maintenance Supervisor for the Navajo Youth, Health, Physical Education, and Recreation program, December 1, 1977

BETTY JO ROBINSON, Lecturer I to Lecturer II in the Associate Degree Nursing Program, July 1, 1978.

PRISCILLA SCHULTE, Lecturer II, Adult Basic Education & Alcohol Related Offenses to Program Director Adult Basic Education, November 1, 1977.

JANET TRAMMELL, Clerical Specialist III to Clerical Specialist V, Business Office, July 4, 1977.

The staff members effective July 1, 1978 are:

Mr. Calvin O. Hall	Director
Mr. Glen Gabehart	Associate Director, Academic/ Vocational Instruction
Mr. Boyce Russell	Assistant Director, Student Services
Mr. Joe Gill	Coordinator, Community Ser- vice & Continuing Education
Ms. Lurae McCollum	Program Specialist IV, Fi- nancial Aids
Mr. Thomas Grant Ray	Maintenance Supervisor for the Navajo Youth HPER pro- gram & Evening Coordinator Gallup Branch
Ms. Mary Carlisle	Clerical Specialist II, Switchboard/Clerk Typist
Ms. Gail Eastridge	Department Secretary, Office of the Director
Mr. James Ferguson	Maintenance
Ms. Lynne Granger	Clerical Specialist IV, Of- fice of the Assistant Director
Ms. Georganne Mellen	Library Technician
Ms. Carol Perez	Clerical Specialist III, Office of the Coordinator, Community Services and Continuing Education
Ms. Loretta Quintana	Clerical Specialist IV, Of- fice of the Associate Director, Academic/Vocational Instruc- tion

Ms. Shawna Reson	Clerical Specialist IV, Office of the Director of Nursing, Associate Degree Nursing Program
Ms. Jane Rucker	Accounting Technician
Ms. Francis Thompson	Clerical Specialist II, Learning Resources Center
Ms. Janet Trammell	Clerical Specialist V, Business Office

The full-time faculty members effective July 1, 1978 are:

Ms. Linda Appleby	Lecturer II, Associate Degree Nursing Program
Mr. Robert Bell	Lecturer II, Anthropology
Dr. Altha Crouch	Assistant Professor, Health, Physical Education & Recreation
Dr. Emerine Glowienka	Associate Professor, Sociology and Philosophy
Ms. Catherine Jenkins	Associate Professor, Director of Associate Degree Nursing Program
Ms. Laurine Mickee Mickelsen	Associate Professor, Navajo Youth, Health, Physical Education and Recreation
Mr. Calsue E.T. Murray	Lecturer II, Elementary Education
Ms. Betty Jo Robinson	Lecturer II, Associate Degree Nursing Program
Mr. Alan Wilson	Assistant Professor, Modern Languages
Ms. Kaye Wilson	Assistant Professor, English

In addition, the Branch employs forty-six part-time Lecturers.

Enrollment Data: 1977-78

In its tenth year the Gallup Branch has continued its enrollment increase. The enrollment data for 1977-78 is as follows:

<u>SEMESTER</u>	<u>HEAD COUNT</u>	<u>FTE</u>	<u>YEARLY FTE</u>
Summer	609	143.7	
Fall	1015	373	
Spring	1035	395	455.96

The total credit hours for 1977-78 are listed below:

Summer	2159
Fall	5595
Spring	5925

Age statistics for 1977-78:

<u>SEMESTER</u>	<u>AVERAGE AGE</u>	<u>AGE RANGE</u>	<u>MARRIED</u>	<u>SINGLE</u>	<u>MEN</u>	<u>WOMEN</u>
Summer	31.47	16-80	354	255	147	462
Fall	30	16-69	*	*	345	670
Spring	30	16-79	*	*	326	709

Statistics for the total years of operation are graphed on Tables I and II.

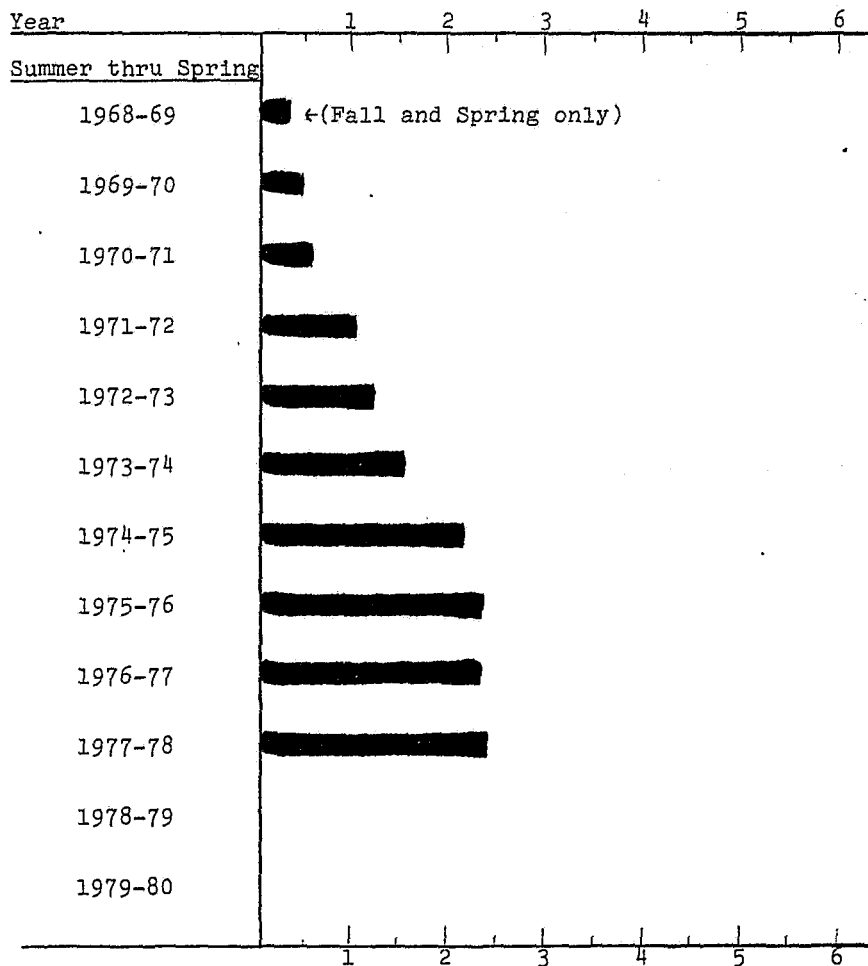
Table III is a graph of the Indian/Non-Indian enrollment for 1976-77:

<u>SEMESTER</u>	<u>NON-INDIAN</u>	<u>INDIAN</u>	<u>PERCENTAGE INDIAN</u>	<u>TOTAL</u>
Summer	247	362	59.44	609
Fall	443	572	56.32	1015
Spring	408	627	60.57	1035

*No longer maintaining statistics on married/single students

GALLUP BRANCH COLLEGE
U.N.M.

Total Yearly Enrollment



Number of Students
by thousands

GALLUP BRANCH COLLEGE
U.N.M.

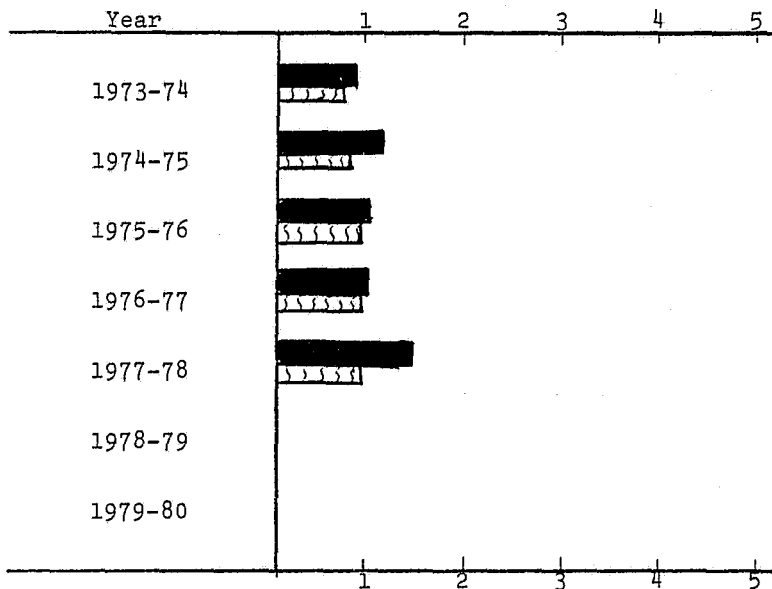
Total Yearly FTE





Number of FTE by Hundreds

UNIVERSITY OF NEW MEXICO
GALLUP BRANCH COLLEGETotal Indian - Non-Indian Enrollment

Number by Thousands



KEY:  Indian Enrollment
 Non-Indian Enrollment

NOTE: Does not include upper division on-site programs.

Learning Resource Center

Federal and institutional monies were expended during the 1977-78 fiscal year to build up library collections in law enforcement, education, anthropology, electronics, drafting, nursing, philosophy, crafts, and outdoor recreations, and other fields. Top priority was given to developing collections in the fields of law enforcement, education, and vocational education as these programs are either new or are being expanded to offer AA degrees.

Assistance was given to the library collection development by the Gallup Lions Club, who bought nursing texts for the library and by several interested individuals who donated books in the fields of nursing and psychology.

A committee was set up to evaluate the library and make suggestions for library improvement in preparation of the North Central Committee visit. Some suggestions included reworking library philosophy and administrative policy, redefining library personnel tasks, reorganization of work flow, acquisition of more AV materials, books, and periodicals. Additional information was acquired by questionnaires submitted to all academic departments on adequacy of library holdings. The respondees indicated that much more still needs to be done in acquisition of books, periodicals and AV materials for most fields of

study.

Significant strides were made in subject cross-referencing of the card catalog, AV materials cataloguing, original cataloguing and reorganization of media equipment and materials providing for greater security and future expansion.

The library periodical binding project which was dropped during the 1976-77 fiscal year, was reinstated during the 1977-78 fiscal year. Two-hundred-eighteen periodical volumes were bound during this period.

Extensive use has been made of the library's video tape duplication and play-back systems for instructional purposes. Live video filming has been effective in sociology and psychology classes conducting special units on interviewing techniques. Future plans for video expansion include monitors and play-back systems in most classrooms controlled by a master unit located in the library.

Financial Aids

This Spring, UNM decided that financial aids SEOG, NDSL, SSIG, and Navajo Scholarships would be written for the first time at the Branch. Previously, the paper work was sent from here to Student Aids on main campus. Included is a graph showing the financial aids distributed through this office during the past year.

Historically, Indian students take advantage of financial aid, but other needy groups do not. A special effort was made through several articles in the local newspaper and radio to inform those groups. In February representatives from the main campus helped with a financial aid workshop which was well attended by interested parents and students.

One of the goals of the financial aids office is to make the UNM Gallup Branch as visible as possible so that local people think of us when they think "college." Many of the financial aid projects and activities double as publicity for the Branch and UNM. Local scholarships have helped to keep the Branch in close contact with contributing groups and in doing so has added scholarships and reactivated others. The publicity on these scholarships and follow up activities such as taking the recipients to meetings to meet the club members, has kept the Branch in the public eye.

The financial aids office has worked closely with the Gallup High School awards assembly presenting some twenty awards from UNM main campus and the Gallup Branch effectively keeping UNM in the forefront. UNM alumnus from the community were in attendance to give out the awards.

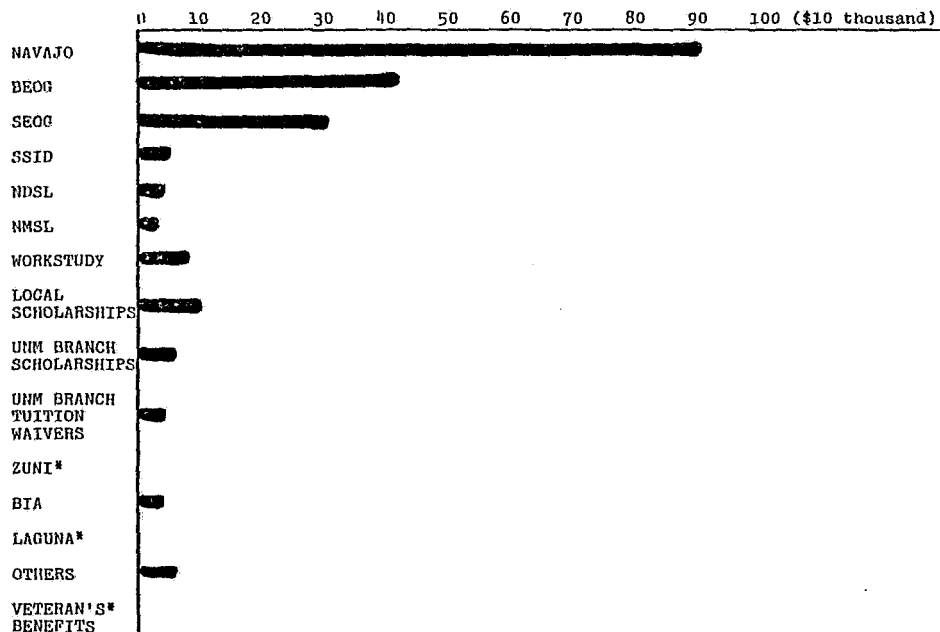
Recruiting has been one of the major activities this year using both individual and group approach. The financial aid office prepared and the Branch hosted the first "Discover

the Branch Day" which some sixty-five seniors attended. A slide and narrative program was presented to both students and high school counselors.

The first attempt to attract the senior citizen to the Branch produced only a spotty reception. Continued contact will be made with this group and the use of tuition waivers will be used to enable members of this group to attend classes.

The highlight of this years effort has been the completion of a combined catalog and bulletin. This has been the first publication of this magnitude for the Branch although brochures have been published previously.

FINANCIAL AID TO STUDENTS AT THE UNM GALLUP BRANCH 1977-1978



* Zuni tribe, Laguna Tribe, and Veteran's funded students but it did not go through this office, so the amounts are not on the graph.

Associate of Arts (in progress or proposed)

Specific programs that have been approved and are in operation include:

1. Associate of Arts Degree in Recreation
2. Associate of Arts Degree in Community Social Work
3. Associate of Arts Degree in Nursing
4. Associate of Arts Degree in Elementary Education
5. Associate of Arts Degree in Physician's Assistant
6. Adult Basic Education Program

Two additional associate degrees were approved by the University Curriculum Committee and will be initiated for the Fall Semester of 1978-79 are:

1. Associate of Arts Degree in Arts and Science
2. Associate of Arts Degree in Law Enforcement

If construction of new facilities is completed by the Fall Semester 1979-80, several new programs are scheduled to start. Programs being considered are:

1. Auto Mechanics
2. Welding
3. Drafting
4. Electronics
5. Secretarial-Clerical

Other programs being considered in long range plans include:

1. Hotel-Motel Management
2. Food Service

3. Mid-Management

4. Mine Maintenance

Associate Degree programs that are presently in operation continue to maintain or increase in enrollment.

The Associate of Arts Degree in Nursing has maintained its enrollment of 35 students as was approved by the State Board of Nursing.

The Associate of Arts Degree in Recreation had an enrollment of 59 students in the Fall, 143 students in the Spring and 156 in the Summer.

Associate of Arts in Community Service Work

The first CSW course was offered in the Fall semester, 1976. By Spring, 1978, the entire program of required courses had been offered, with the exception of CSW 150: Clinical Experience. This is a five-unit practicum which will be offered in the summers, beginning 1978. Thus, the first graduates in CSW are expected for May, 1979.

At the Gallup Branch, the administration of the CSW degree program is in the department of sociology, headed by Dr. Emerine Glowienka. She also teaches most of the sociology courses required in this program. The first teacher, in 1976, of the first CSW course was Mr. James Jertson, M.S.W. He continues to be a part-time instructor in the program. For CSW 150, a new part-time person was hired to supervise the students in their clinical experience.

She is Mrs. Marcella Wolf, M.S.W. and is currently supervising twelve students.

The major strengths of the AA degree in Community Service Work is a well rounded curriculum which can provide both academic and professional instruction to the students. In addition, there is the strong support given by the Main Campus department of psychiatry which offers such a program, and, in particular, the long-standing concern and advice of Dr. Stephen Perls. The support from the Gallup community social workers is also much appreciated.

In this program the same concerns are evident as is present in many of the Branch programs i.e. the problem of obtaining enough qualified instructors to assist in the teaching of the CSW courses and in the supervision of the students in their clinical experience. Eventually, it is hoped, a person with a doctorate in Social Work can be employed to teach and to administer this degree program which has grown to a total of 25 students.

Associate of Arts in Elementary Education

The Associate of Arts Degree program in Elementary Education was started in the Fall of 1977. Twenty-four students were enrolled in the program in its first semester. At the start of the program's second semester, Spring 1978, enrollment was increased to thirty-four, and a waiting list of sixty applicants was approved for the Fall, 1978 Semester.

In order to finish the AA degree program in Elementary

Education, a student must successfully complete thirty semester credit hours in General Education requirements, twenty-two credit hours of electives. The first sixteen credit hours in Professional Education are in experience-based courses requiring the cooperation of the student, the college, and local schools or agencies which agree to have students placed with them in paraprofessional capacities.

Associate of Arts in Arts and Science

This program will increase and stabilize options for students attending the Gallup Branch by providing a fully transferable two-year program in general studies which meets the requirements for an Associate of Arts Degree in Arts and Science. To fulfill associate degree requirements students must complete the requirements of Group I, Communications (listed below) and 6 out of the 7 remaining Groups.

Group Requirements:

- I. COMMUNICATIONS: 9 credit hours. Six hours in English Writing, English 101 and above and 3 hours chosen from English 220, Speech Communication, Linguistics or Journalism.
- II. HUMANITIES: 9 credit hours (not more than 6 from any one area) in Literature, including Foreign and Comparative Literature, History or Philosophy.
- III. BIOLOGICAL/BEHAVIORAL SCIENCES: 6/7 credit hours

in Anthropology, Biology, or Psychology.

- IV. PHYSICAL SCIENCES: 6/7 credit hours in Chemistry, Geology, Physics or Astronomy.
- V. MATHEMATICS: 6 credit hours. Math 109, 110, 111, and 112 cannot be used to satisfy this requirement.
- VI. SOCIAL SCIENCES: 9 credit hours (not more than 6 in any one area) in Economics, Geography, Political Science or Sociology. (Not acceptable are Political Science 250 and Sociology 280 and 281).
- VII. FINE ARTS: 3 credit hours. Acceptable courses are Art History 101, Music 139, and 140.
- VIII. MODERN AND CLASSICAL LANGUAGES: 6/8 credit hours to include Navajo 101 and 102 for non-Navajo speakers, Navajo 105 and 206 for native speakers of Navajo, or Spanish 101 and 102 for non-Spanish speakers and Spanish 211 for Spanish speakers.

Associate of Arts in Law Enforcement

This program will lead to an Associate of Arts Degree in Law Enforcement for persons interested in police work. A minimum of 67 hours of earned credit must be completed in the following areas:

- a. Law Enforcement 101, 106, 107, 221, 233, 234, 235, and 236 (24 hours)
- b. Communications - 6 hours
- c. Humanities - 6 hours

- d. Behavioral Science - 6 hours
- e. Laboratory Science - 8 hours
- f. Social Science - 9 hours
- g. Mathematics - 3 hours
- h. Physical Education (LE 108-109) - 2 hours
- i. Law Enforcement Elective - 3 hours

Associate Degree Nursing Program

The Nursing Director, with the participation of the faculty had the authority and responsibility compatible with the general policies of the institution for:

- 1. Screening and recommending candidates for faculty appointment.
- 2. The program of learning.
- 3. Developing and maintaining satisfactory relationships with:
 - a. The central administration
 - b. Other departments in the institution
 - c. Other agencies or institutions that provide facilities
 - d. Community groups
 - e. Appropriate state, regional and national agencies
- 4. Organizing and directing the unit in nursing in such a way that:
 - a. There are closely defined relationships among faculty and between faculty and administration

- b. There is appropriate distribution of work load
- c. There is provision for regularly scheduled conferences concerned with the improvement of the program
- d. There are reports and minutes of faculty action available for reference

The above is to serve as an informative device for use by the administrative officer(s) who are conducting the associate degree program in nursing; (2) a guide for the UNM - Gallup Branch to use in self-evaluation and program improvement; (3) an evaluation tool for the program to use in the accreditation process.

Planning:

In an effort to select appropriate agencies and/or institutions that provide facilities the writer, with the participation of the faculty surveyed the community health agencies for two distinct kinds of data: (1) statistical data about prevailing population factors, socioeconomic problems, and patterns of health within the community and (2) information about existing health, education, and welfare agencies regarding the kinds and numbers of services offered to the public, the kinds of facilities that could be utilized for clinical nursing experiences and the availability of specialized consultants as resource persons. Community Health facilities were selected that would enable the student to correlate his/her theoretical knowledge with

the clinical experience, in order to effectively meet the objectives of the program.

Criteria that the writer and faculty accepted as guides for coordination of learning experiences were based on whether or not the agency could enable the student to have continuity, sequence and integration of learning experiences.

Community Agencies Utilized for Clinical Experiences Included:

1. Gallup Indian Medical Center - PHS
2. McKinley General Hospital
3. Rehoboth Christian Hospital

Legally binding agreements were prepared by the UNM-Gallup Branch's Nursing Program for the use of community health facilities by the faculty (August 4, 1977).

- a. Agreements insured that faculty members would have control of students and freedom to select appropriate learning experiences
- b. Agreements are periodically reviewed and revised, if necessary

Implementation

The New Mexico State Board of Nursing and the UNM Nursing Curriculum Committee approved the curriculum modifications as submitted.

Total enrollment at beginning of the academic year 1977-1978

Freshman 20

Seniors 12

Twelve students satisfactorily met the requirements of the institution, nursing program and graduation requirements.

Accomplishments

1. Students had the opportunity to participate in the development, conduct and evaluation of those aspects of the nursing program to which they could make a contribution
2. Faculty participated in professional and community activities for the purpose of bringing education, service and research findings together for the improvement of health care:

Genes and Birth Defects 1977. Las Vegas, Nevada
CEU by Nevada Nurses Association sponsored by the
American Academy of Orthopedic Surgeons

Cardio-Pulmonary Resuscitation 1977, by American
Heart Association Gallup, NM

Birth of Parenthood 1977. International-Child-
birth Educational Association Albuquerque, NM

Joint Project UNM - Department of Vocational
Educator Workshop "Designing & Teaching Units
of Instruction" November 1977

Cardio-Vascular Disease & Treatment 1978. Dallas,
Texas CEU by Texas Nurses Association Sponsored
by American Academy of Orthopedic Surgeons

Cancer Care Home and Hospital. Dallas, Texas
1978. CEU by Texas Nurses Association. Spon-
sored by American Academy of Orthopedic Surgeons

Ghost Ranch Workshop 1978. Sponsored by S.N.A.P.
Abiqui, NM

Workshop Mental Health Psychiatric Nursing Mobile Unit. Dona Ana County Occupational Education Branch. May-September 1978

Mental Health/Psychiatric Nursing for S.N.A.P. Project:

Feb. 1978 - Dean Westwick - "Testing and Evaluation" (attended part of session)

March, 1978 Dr. Lisa Robinson "Psychiatric Needs of the Hospitalized Patient"

April, 1978 Dr. Joan Walsh "Integrating Mental Health/Psychiatric Nursing Concepts into Curricula"

Workshop "Models for Introducing Cultural Diversity in Nursing Curricula Project" WICHE March 30-April 2, 1978 San Diego, Calif.

Cardio Pulmonary Resuscitation Courses (American Heart Association) Blood Pressure Clinics-Gallup City Employees "Basic Arrhythmia's in Treatment UNM Gallup Branch (CEU)

Preparing the Associate Degree Graduate (NLN) New York December 1977

"Incorporating Cultural Diversity in Patient Care" Workshop Presbyterian Hospital with Indian Health Service Oct. 1977

S.N.A.P. Task Force Meeting of Nursing Education and Nursing Service to conduct further evaluation and validation of "Minimum Behavioral Expectations of New Graduates" March 1978

The Second Annual Update in the Health Care of Women UNM Women's Health Training Program May 1978

Interdisciplinary Symposium of Primary Care Nurse Symposium - University of Colorado School of Nursing June 1978

3. Recruitment of a Visiting-Clinical Instructor Ms. Carol Bellistri who has an Associate Degree in Nursing and is certified as a Family Nurse Practitioner
4. Library resources were updated through:

- a. Donation from the Lions Club
 - b. Others within the community
5. The writer with the participation of the faculty, assisted in planning the new building for Nursing, a combined use facility:
- a. Offices
 - b. Classrooms, laboratories and conference rooms
 - c. Space for equipment and instructional material
6. Approval of 1977-1978 application to participate in the Nursing Capitation Grant Program (amount of this award \$5,897)
7. The UNM-Gallup Branch's Nursing Program became a member of the Western Council of Higher Education for Nursing (WCHE) to provide a means for studying problems in nursing education that needs cooperative study and action.
8. The program of learning met the requirements of the parent institution for granting an associate degree and the New Mexico State Board of Nursing's criteria for eligibility to write the State Board Test Pool Examination
9. High school visitation throughout the Navajo reservation by Ms. Pita Wood, M.S.N. to provide for dissemination of materials on nursing program (November 1977)
10. Twelve students satisfactorily met the requirements of the institution, nursing program and graduate requirements.
11. National League for Nursing (NLN) consultation service was requested and obtained to assist our program in planning new curriculum patterns:
- a. Funding for the visits, is under the auspices of Area Health Education Center (A.H.E.C.)
12. The Nursing Advisory Committee was reorganized in order to provide the information and guidance needed to keep the program current.
13. Evaluation of teacher effectiveness was approached within the confines of three broad categories: student

evaluations of teaching effectiveness, teacher self-evaluation and colleague evaluations:

- a. Evaluation of teacher effectiveness resulted in (1) a means of teacher self-improvement leading to changes in teaching approaches and implementation of course objectives (2) strengthening student-teacher relationships (3) renewed recognition of the student as an individual and as the basic reason for the existence of the educational institution and greater commitment to teaching
14. American Indian School of Medicine (AISOM) sponsored an inservice workshop (September 1977 - May 1978) for faculty members concerning the effectiveness of alternative instructional
 - a. strategies
 - b. processes
 - c. modes
 - d. materials

Recommendations

1. That instead of the nursing program being three-tier (ladder) it is developed as a sound AD Nursing Program or Community College Nursing Program with opportunities for assessing individuals for placement at a level of competency in terms of the associate degree curriculum.
2. That the library resources and instructional materials are comprehensive, up to date and available.
3. That the program of learning be organized for completion within a four-semester period in order to allow faculty to continue academic study appropriate to their responsibilities.
4. That Summer-Session be utilized for students who have potential but who need supportive learning services to succeed in an associate degree program of nursing.
5. That sabbatical leave be approved by the UNM - Gallup Branch with the clear understanding that the faculty member will at the completion of the sabbatical return to the Gallup Branch for a period of service at least as long as the duration of the leave.
6. That at least one other faculty have a master's in nursing and experience in the area of responsibility in which leadership is expected.

This year has been a very active year for the Gallup Branch Nursing Program. There are notable achievements to look back upon and stimulating objectives to look forward to.

Navajo Youth Health, Physical Education, and Recreation

The Navajo Youth, Health, Physical Education, and Recreation program continued its service of delivery of a comprehensive health, physical education, and recreation program to areas throughout the Navajo Nation.

The summer program has proven to be a highly successful one and continues to increase its enrollment through the swimming, arts and crafts, and sports/games programs. The swimming program has shown a definite increase in popularity with many youngsters participating in the beginners program and others progressing from their last summer of participation. The arts and crafts, sports and games sections continue their attractiveness to participating youngsters.

Throughout the winter the program director and her associate director have been teaching recreation courses within the Associate Degree Program in Recreation. This program has brought the program to the reservation on an on-site basis and is providing a much needed service to the Navajo people and others who wish this type of two-year degree.

The director of the program, Laurine Mickee Mickelsen, was honored by the Southwest District of the American Alliance for HPER at their annual convention, receiving the "Humanitarian Award." This award recognized her leadership in HPER in developing the youth program in cooperation with the BIA Division of Education and the UNM Gallup Branch.

This summer's program added two schools to make the total 28 from last summer's 26 schools. It is anticipated that the program will continue its excellent service to the Navajo Nation for years to come.

Community Services and Continuing Education

The collective and coordinated efforts which are carried on through the UNM Gallup Branch office of Community Services and Continuing Education completed an event filled year which was marked with the increase in all areas for which records were kept. The number of offerings increased by 24.8% and enrollment in the CSCE programs was up by 19.9%. Due to the facilitating of State of New Mexico and National Indian Youth Council CETA programs, the total number of instructional hours and the FTE Equivalent percentages were up by 53% and 53.6% respectfully.

It is projected that fiscal year 1978-79 will again be a year of increase. Continuing Education Unit (C.E.U.) classes will become a more sought after commodity by all

the professional people within the Branch services area. Graduate Extension classes will continue to be highly marketable items in 1978-79, as will be all Vocational Skill building programs. As in the past, Non-Credit General Interest classes will continue to be utilized by persons who wish to participate in life long learning.

During fiscal year 1978-79, effort will be expended to place CSCE offerings in communities outside of Gallup. Thoreau will receive first efforts at establishing a CSCE center within the county communities.

CATEGORIZATION OF OFFERINGS

NON CREDIT GENERAL INTEREST

<u>Class</u>	<u>Sections</u>	<u>Contact Hr.</u>	<u># Enrolled</u>	<u>Inst. Hr.</u>
Placing Concrete	5	4	123	492
Party Time - Hors d'oeuvres	1	15	14	210
Beginning Cake Decorating	4	20	86	1,720
Beginning Photo- graphy	1	32	11	352
Home Repairs and Woodworking	1	45	15	675
Basic Movement - Dance	1	15	10	150
Intermediate Bridge	1	15	11	165
Learning to Learn	<u>1</u>	<u>15</u>	<u>7</u>	<u>105</u>
TOTALS	15	161	277	3,869

VOCATIONAL SKILL BUILDING

<u>Class</u>	<u>Sections</u>	<u>Contact Hr.</u>	<u># Enrolled</u>	<u>Inst. Hr.</u>
Diesel Mechanics I	2	45	41	1,849
Diesel Mechanics II	1	45	12	540
Distributive Educ- ation - Retail Sales and Management	1	96	8	768
Physical Education Workshop for Elemen- tary Teachers	1	15	11	165
CETA - Clerk Gener- al Office	1	1,080	21	22,680
NIYC - Clerk Gener- al Office	<u>1</u>	<u>470</u>	<u>22</u>	<u>10,340</u>
TOTALS	7	2,301	115	36,338

C. E. U.

<u>Class</u>	<u>Sections</u>	<u>Contact Hr.</u>	<u># Enrolled</u>	<u>Inst. Hr.</u>
Basic Arrhythmias	<u>2</u>	<u>10</u>	<u>31</u>	<u>310</u>
TOTALS	2	10	31	310

G R A D U A T E E X T E N S I O N C L A S S E S

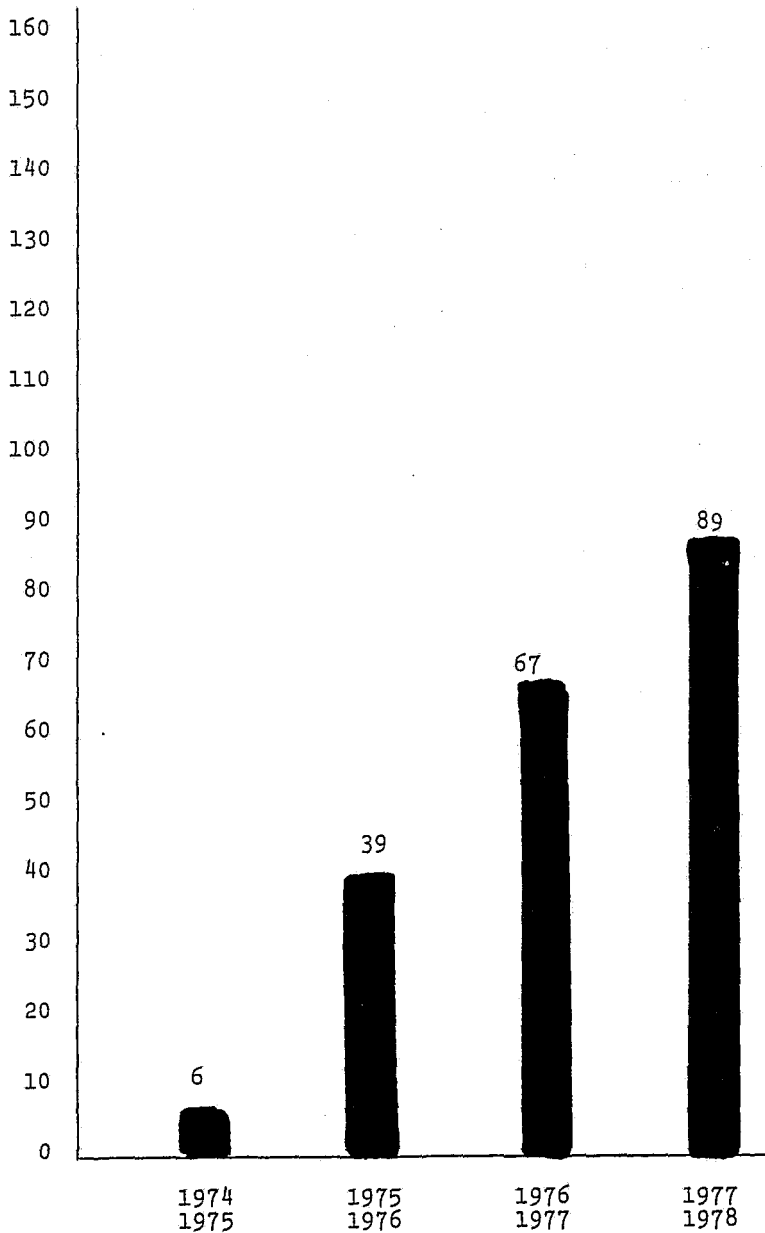
<u>Class</u>	<u>Sections</u>	<u>Contact Hr.</u>	<u># Enrolled</u>	<u>Inst. Hr.</u>
Elementary Educa- tion 431 "The Read- ing Program in the Elementary School"	3	45	77	3,465
Elementary Educa- tion 435L "Remedial Reading Problems"	3	45	70	3,150
Elementary Educa- tion 447 "Teaching Reading in the Open Classroom"	1	45	15	675
Secondary Educa- tion 538 "Teaching Reading through the Content Field"	2	45	49	2,205
Educational Admin- istration 521 "School Finance"	1	45	24	1,080
Linguistics 497 "Applied Linguis- tics for Bilingual Educators"	1	45	18	810
TOTALS	11	270	253	11,385

C O M M U N I T Y S E R V I C E S

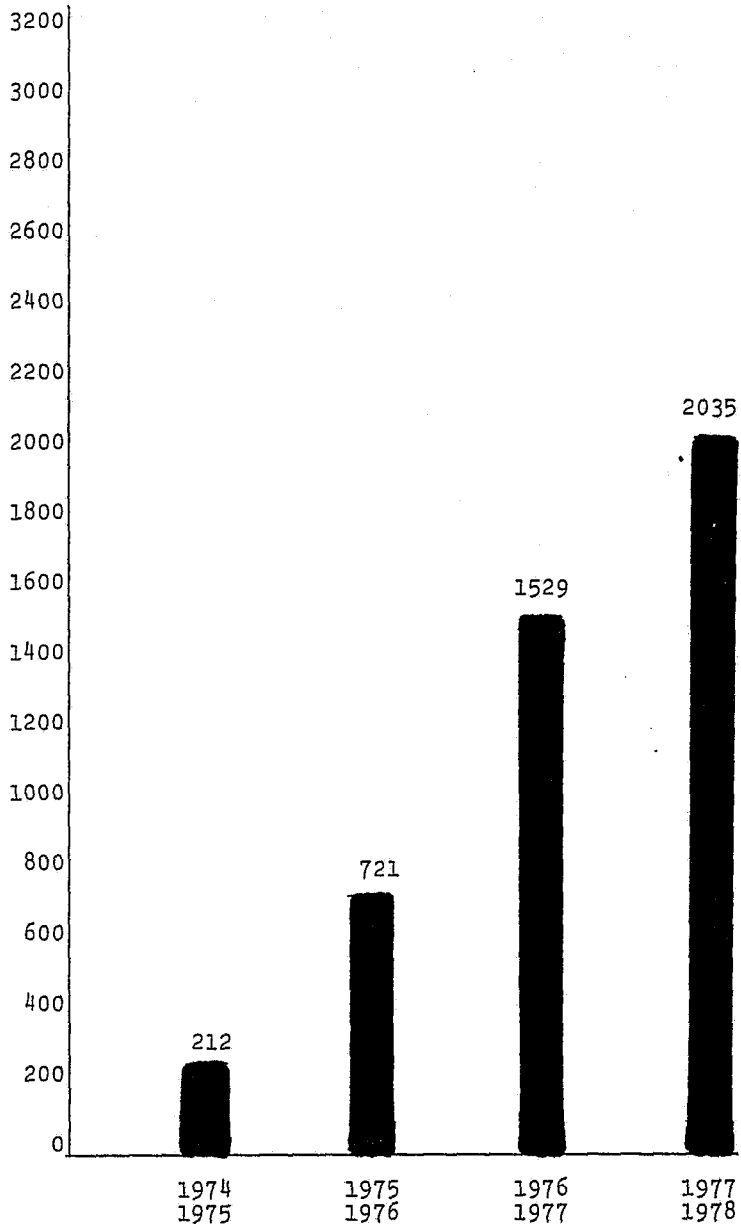
<u>Class or Activity</u>	<u>Sections</u>	<u>Contact Hr.</u>	<u># Enrolled</u>	<u>Inst. Hr.</u>
Alcohol Related Of- fenses Class	27	15	540	8,100
Lamaze Childbirth Course	7	10	35	350
Drivers Education	4	48	175	8,400
Multimedia First Aid	3	8	36	288
Multimedia Instruc- tor Training	2	15	3	45
*American National Red Cross Food Air Drop at Ramah	1		250	
*Extension High School	1		1	
*Signature Party for Bud Hyson	1		32	
*G.E.D. Testing	7		251	
*Western Association of New Mexico Water & Waste Water Treat- ment Association Conference			46	
TOTALS	54	96	1,359	17,183

*Not for FTE Equivalency

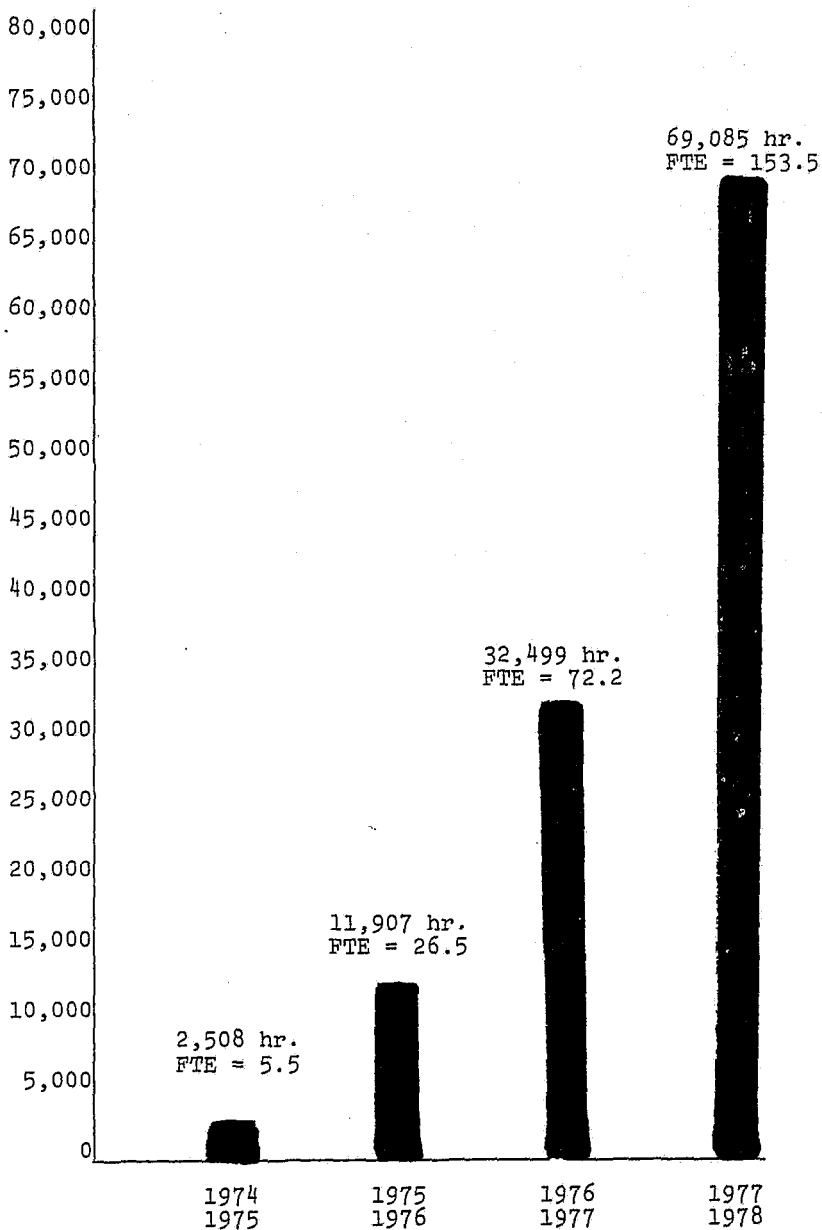
TOTAL NUMBER OF COMMUNITY SERVICES AND
CONTINUING EDUCATION OFFERINGS



TOTAL ENROLLMENT



STUDENT HOURS OF INSTRUCTION AND FTE EQUIVALENT



College Preparatory Program

The new College Preparatory Program, that will start in the Fall Semester, 1978, will enable students to develop or improve their academic skills so that they can be successful in their college studies. These are the courses that will be included in this program:

English 100	Writing Standard English	3 Credits
English 103	English as a Second Language	3
Math 010	Basic Mathematics	3
Social Science 010	Social Science	3
Science 010	Natural Science	3
General Studies 010	Effective Reading & Study	3

This program is intended to meet the needs of the substantial number of students who, for whatever reasons, come ill-prepared to do successful work in academic or vocational programs at the Gallup Branch. It is hoped that this preparatory program will enable students to develop and/or improve their academic skills so that they can succeed in various associate of arts or vocational/technical programs at the Branch without the "integrity" of those programs being compromised.

Assessment of this program will focus on the progress made by students. The program coordinator will maintain individual records on every student, and will work closely with instructors to establish a system for recording and

sharing diagnostic/prescriptive data. Instructors will be encouraged to innovate, experiment, and explore with the aim of discovering/devising the most effective instructional methods. Information on similar programs at other institutions will be made available for review, comparison, and potential adaptation of appropriate components, techniques, etc.

Satellite Classes

The Gallup Branch has conducted classes at various sites in the Gallup-McKinley County area. Classes that were a component of the Associate Degree in Recreation Program were conducted at Hunters Point, Pueblo Pintado, Tohatchi, Chuska and Sanostee.

Other classes were offered at Zuni, Crownpoint, Laguna-Acomita, and Tohatchi.

Adult Learning Center

The Adult Learning Center offers three programs for adults wishing to further their education. These programs are the ABE, GED, and College Student Development Programs.

The ABE (Adult Basic Education) program is designed to upgrade the basic skills of persons who have a limited educational background in Math, English, and Reading. Persons who are achieving below eighth grade level in these areas are served by this program.

The GED (General Educational Development) program is designed to prepare persons for the GED examination so that they can receive a State of New Mexico High School Diploma.

Persons whose achievement is above eighth grade level are eligible for this program.

The College Student Development Program is designed to assist persons who have a high school diploma and wish to begin college work, but need to upgrade their academic proficiencies. Students already enrolled in college are also served by this program.

The Adult Learning Center served a total of 557 students during fiscal year 1977-78 for a total of 9,600½ hours of study (see Chart 1). The largest segment of the population served were American Indian students (comprising 65% of our student body), then Hispanic (20% of our student enrollment), Black (comprising 2% of our enrollment) and Other (13% of our student body) see Chart 2. The greatest portion of our students (70%) entered at a level below 9th grade and more than one third of these students remaining in the program moved up to the GED program level.

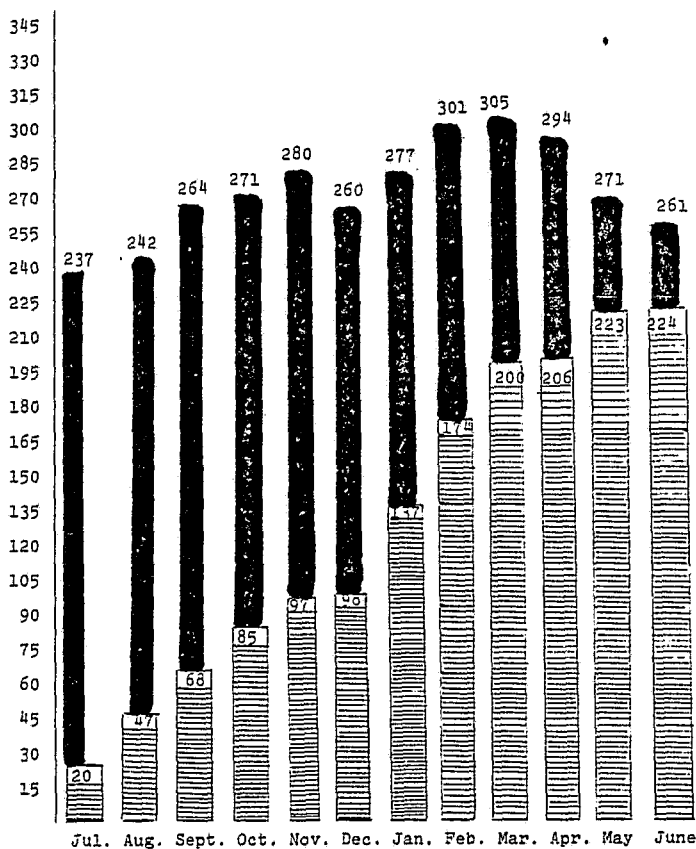
A major part of the ABE/GED programs involved ESL instruction. Thirty-five students were registered in classes serving only ESL students. In addition, students whose first language was Spanish, Navajo, Zuni, or other languages (Hindi, Arabic) were instructed on an individual basis within the ABE/GED programs.

As a result of these programs many Gallup area adults were able to upgrade reading, writing, and math skills. The GED program enabled students to successfully complete the

GED examination. Many students were able to upgrade employment levels or become employed after study at the Adult Learning Center.

TABLE ONE

*Total ABE/GED Enrollment per month July 1976-June 1978



*Graduates and Dropouts are excluded from monthly totals.



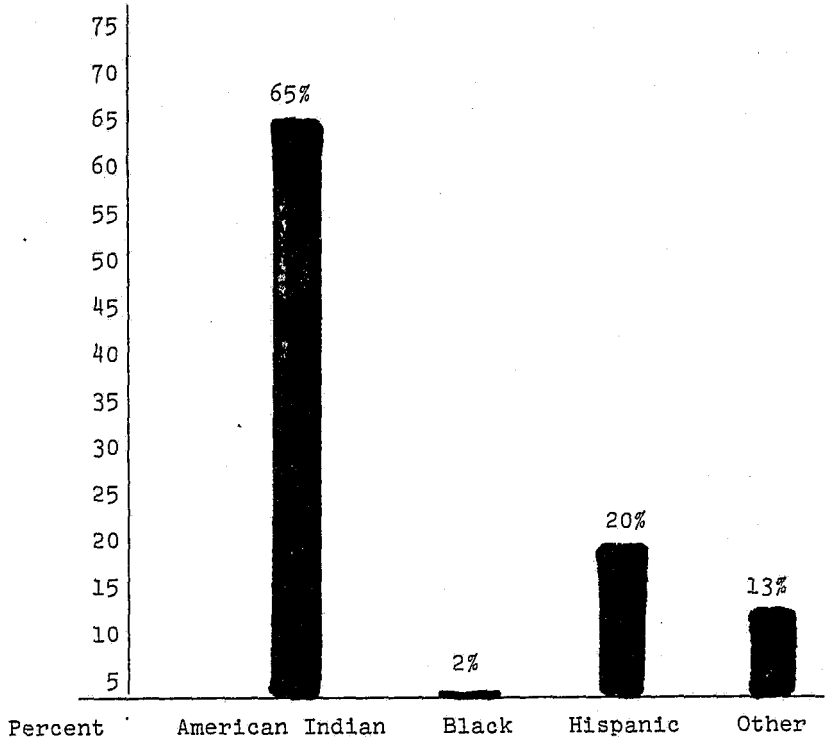
1976-77



1977-78

TABLE TWO

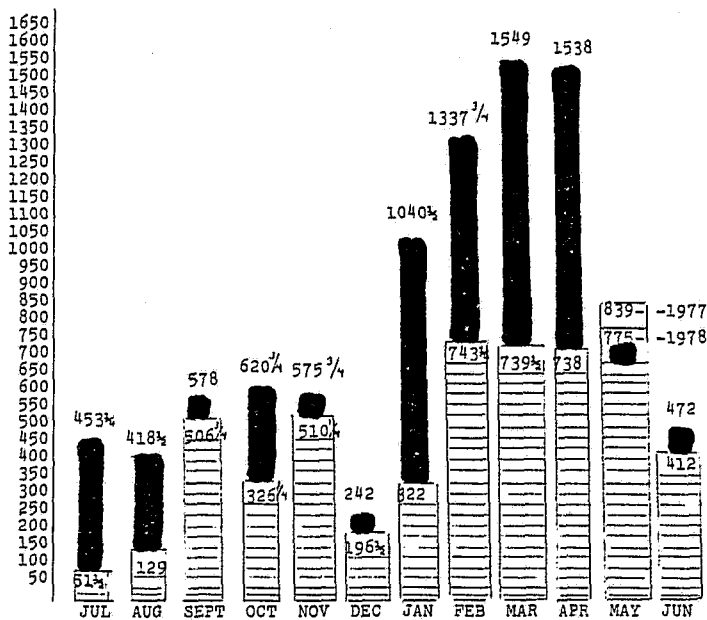
*Total Ethnic Enrollment 1977-1978



*Percentages include students enrolled at Satellite Centers

TABLE THREE

* Hours of study per month from July 1976 to June 1978



1977-78* Average hours per month=800. Total hours for 12 months=9600 1/2.
 1976-77 Average hours per month=459.75. Total hours for 12 months=5517.



1976-77



1977-78

Student Government/Student Activities

Elections were held in the fall semester for the sixteen member Student Senate. One of the foremost tasks of this year's Senate was to evaluate and make recommendations for changes in the present constitution. After many hours of consultation with faculty and staff, the Senate members submitted a completely new constitution to the student body for its adoption. The constitution was adopted by the student body and will take effect in the fall semester of 1978.

One of the primary advantages of the new constitution over the previous one is the elimination of the sixteen member Senate and the adoption of a seven member Board of Commissioners. Each commissioner will be the chairperson of a particular committee as outlined in the constitution i.e.: vice-chairperson will head the social events committee, the treasurer will direct the finance committee, etc.

This year the Senate sponsored and/or promoted the following activities: a dance with a well known rock band from Albuquerque, a concert by the Grass Roots, a ski trip to Purgatory, a fashion show, a table tennis tournament, a reception for a local author, a picnic, a scholarship for a student attending the Gallup Branch, the purchase of a foosball table, the purchase of darkroom equipment to com-

plete the five station darkroom, the showing of current movies to students free of charge. In addition the Student Senate sponsored the Karate Club, Student Nursing Association, and the Photo Club.

Plans for the future include: the purchase of a bus so that students may take field trips and attend cultural sporting events in neighboring cities; purchase of a pool table for the new buildings, initiation of a student newspaper, the formation of an Indian Club, a yearly basketball tournament with NMSU-Grants, the formation of an outdoor club which would include the purchase of cross country skis, back-packing and camping equipment.

The Student Senate also plans to have more concerts by the well known rock stars or groups as this has not been done for sometime in the Gallup area.

Self Study Implementation

A coordinator for the self-study was appointed by the College Director on November 1, 1977. Immediately thereafter, an investigation was made of the process and execution of a self-study. This included consultations with the Assistant Director for Academic and Vocational Instruction; a thorough review of the literature devoted to accreditation guidelines and procedures; and an analysis of self-studies executed by institutions similar to the UNM Gallup Branch.

In December of 1977, the members of the faculty were organized into eight study committees for which chairpersons were selected on the basis of experience, interests, and willingness to serve.

During the months of January, February, March, and April of 1978, the eight self-study committees acted to perform the following functions:

1. Prepared a thorough, descriptive status report of the operations and practices at the Gallup Branch;
2. Considered the immediate future and the long-range plans for the development of the college;
3. Identified and analyzed points of strength and areas of concern in all of the colleges operations and activities; and,
4. Made recommendations directed toward the improvement of the total effectiveness of the college.

Recommendations in some crucial areas received the almost immediate attention of the college administration. Thus, some important improvements were initiated while the self-study was in progress. The full report will be ready to go to the printers prior to the 30th of June.

HARWOOD FOUNDATION

HARWOOD FOUNDATION

James Levy, Acting Director

The Harwood Advisory Board

Meg Salman, Chairperson	Taos, New Mexico
Cliff Harmon, Vice-Chairperson	Taos, New Mexico
Lucy S. Cruz	Taos, New Mexico
Joe Gonzales	Taos, New Mexico
Van Dorn Hooker	University of New Mexico
Melvin Lujan	Taos, New Mexico
Terry Moynihan	Taos, New Mexico
Otto Mears Pitcher	Taos, New Mexico
Robert D. Ray	Taos, New Mexico
Ivan Rosequist	Taos, New Mexico
Rupert Trujillo	University of New Mexico

Dorothy Brandenburg and Sarah Salazar left the Board, Dec. 31, 1977, and were replaced by Lucy Cruz and Otto Pitcher. Cliff Harmon was reappointed for another term.

Library Committee

Rebecca Romero, Chairperson	Taos, New Mexico
Bridget Gallegos, Vice-Chairperson	Taos, New Mexico
Jeanne Knudson, Treasurer	Taos, New Mexico
Mel Baker	Taos, New Mexico
Mildred Buchanan	Ranchos de Taos, New Mexico
Margaret Crowl	El Prado, New Mexico

Bonifacio Fernandez	Taos, New Mexico
Jim Grainger	El Prado, New Mexico
Jean Harrison	Taos, New Mexico
Robert Hawley, M.D.	Taos, New Mexico
Eleanor Huff	Taos, New Mexico
Genevieve Janssen	Taos, New Mexico
Harvey Kalmeyer	Taos, New Mexico
Michael Knight	Ranchos de Taos, New Mexico
Jane Mingenbach	Taos, New Mexico
Grace Parr	Taos, New Mexico
Joe Sanchez	Taos, New Mexico

Harwood Personnel

James Levy	Acting Director, grade II librarian
Dixie Gillette	Secretary Treasurer part time , grade II librarian
John Flexner	Library clerk, part time
Dorothy Kethler	Library clerk part time, grade II librarian
Tracy McCallum	Library clerk part time, grade I librarian
Carmen Medina	Library clerk part time, grade I librarian
Juan Romero	Maintenance, full time
Ray Romero	Maintenance, part time

Personnel changes during the year:

Cynthia Kellen, acting director, resigned effective January

2, 1978, James Levy, acting director, hired January 9, 1978, Ray Romero, maintenance man, hired February 10, 1978.

Director's Statement

Fiscal Year 1977-78 has been a memorable one for the Harwood Foundation. After considerable preparation by UNM, State and Harwood personnel, the Harwood was awarded a \$352,000 Economic Development Administration grant to renovate, restore and conserve the Harwood buildings. Work began on July 15, 1977, and continues to date.

During the renovation period, the Harwood library has continued to serve Taos County as a public library, as well as providing resources for scholarships in art, D.H. Lawrence, and Southwest history. Library staff and volunteers have taken books to the Senior Citizen centers in Taos and Ranchos de Taos, the county jail, Holy Cross Hospital, and LaTuatah detoxification center. Library users have continued to be active participants in the New Mexico interlibrary loan system.

The museum and auditorium were closed during the renovation, the museum from August 1, and the auditorium, from October 10, to date, due to renovation work in those and adjacent areas. When the renovation is completed, the permanent collection of paintings, the P. Barela wood carvings and the collection of retablos will be on display in the museum galleries upstairs. The auditorium will again be available for theater, music, poetry, lectures, and meetings.

The renovation project has transformed the community room into a children's library, which will be, with the help of town and county agencies, equipped and opened by September, 1978. With the addition of the children's library and the improved storage and lighting in the galleries, the Harwood is in a position to become again an integral and vital center for cultural events in Taos County.

Renovation Project

Of the \$352,000 renovation grant, \$281,600 was provided by the Economic Development Administration and \$70,400 by UNM. To date, the Harwood has paid back \$22,000 to UNM. An additional \$30,000 has been pledged by Ben Hazard to be used to reimburse UNM.

EXPENDITURES AS OF JUNE 1, 1978

<u>EDA Budget</u>		<u>Expended</u>	
Administrative Expenses	\$ 750	\$ 596.17	79%
A/E Basic Fees	29,400	24,452.00	83%
Other A/E Fees	2,800	2,672.00	95%
Project Inspection Fees	5,800	5,642.43	97%
Demolition and Removal	39,400	37,358.63	95%
Construction	265,350	212,607.11	80%
Contingencies	<u>8,500</u>	<u>0</u>	
	\$352,000	\$283,328.34	80%
	<u>Grant</u>	<u>Matching Funds</u>	<u>Total</u>
Expenditures as of 6-1-78	\$226,662.67	\$ 56,665.67	\$283,328.34
Received to date	<u>196,400.00</u>	<u>22,000.00</u>	<u>218,400.00</u>
Balance due	\$ 30,262.67	\$ 34,665.67	\$ 64,928.34
	13%	61%	23%

The project has overhauled the heating, plumbing and electrical systems in the east half of the building, and has renovated two apartments and a studio upstairs and a caretaker's apartment downstairs. New offices, workrooms, staff lounge, special non-circulating book rooms and a children's library have all been created from existing rooms. The auditorium/gallery has received new panels and lighting and storage. The library and art room have new fluorescent lights. The complex has been made accessible to the handicapped with an elevator to the auditorium/gallery and outside ramps leading from one wing to the other. The exterior of the building has been stuccoed and the north grounds have been landscaped.

Library Report

1. Hours: Monday, 12 noon to 8 PM

Tuesday through Friday, 12 noon to 5 PM

Saturday, 10 AM to 4 PM

Closed Sundays and Holidays

2. Services:

A. Registered Borrowers	4,693
New Cards issued during year	832
B. Circulation: Adult	25,415
Juvenile	8,549
Total	33,964

C. Interlibrary Loans:

Books Borrowed 314

Books Lent 0

3. Collection:

Number of volumes in library	19,975
Number of volumes added 1977-78	2,685
Number of magazine subscriptions	76
Number of newspaper subscriptions	3

4. Book Fund:

Cash donations, sales of surplus books, fines rentals, etc.	\$ 5,932.24
Town of Taos grant for children's books	2,500.00
Taos County contract for books	1,000.00
New Mexico State Library grant	2,266.00
Xerox machine income	<u>2,912.15</u>
Total Income, Book Fund	\$14,610.39
Amount spent for books, periodicals, Xerox machine rent	\$14,063.45

5. Library programs:

The library has been taking circulating books to the senior citizens centers in Taos and Ranchos de Taos and to home-bound people, and has been taking surplus books to the hospital, jail and detoxification center.

The library has published a bi-monthly column in the Taos News and has broadcast a weekly 15 minute program on AM Radio and a monthly 30 minute program on FM radio. New Book

Lists have been sent out on a quarterly basis to over 700 library patrons. Displays of library materials have been exhibited in business windows on the Plaza.

The library has had the benefit of volunteer help, with as many as twenty people committing their time to help with projects both within and outside of the library. Also, the Taos Pueblo Manpower Agency provided a student to work one hour a day during the school year and the CETA program provided a worker half-time during the summer.

Museum and Auditorium Report

The museum was closed for the renovation project, and the permanent collection placed at the Centinel Bank in Taos, and in storage warehouses.

The last performance in the auditorium was Steve Parks' play, "Manby", a drama about the Englishman who lived in Taos in the 1920's and disappeared under mysterious circumstances. The play was superbly produced by the Taos Theatre Company, led by Bill Bolender. It entertained over 1200 people.

INDEPENDENT STUDY COURSES

INDEPENDENT STUDY COURSES

Independent Study course enrollments showed a marked increase of 67.3% this past fiscal year. It is felt the increase was due to concentrated effort of public relations and the addition of five new courses to the program. There was a total of seven course offerings and two existing courses revised.

Defense Activity for Non-Traditional Education Support (DANTES) enrollments totaled 54 students.

During the 1977-78 fiscal year the following course alterations were implemented:

A. Additions

CHEM 212	Integrated Organic Chemistry and Biochemistry
ENG'G 203	Introduction to Electrical Engineering I
ENGL 100	Writing Standard English
NURS 225	Intro to Concepts in Nursing
PSYCH 332	Abnormal Behavior

B. Revisions

ENGL 102	Writings with Readings in Literature
PHIL 256	Introduction to Logic

C. Deletions

ANTHRO 101	General Anthropology: Origin and Antiquity of Man
ANTHRO 102	General Anthropology: Development of Culture

ANTHRO 356	Archeology: Southwestern Archeology - Pueblo Area
ANTHRO 450	Physical Anthropology
ED.H. 301	General Safety Education
NURS 222	Health Care Delivery Systems
NURS 223	Introduction To Nursing
N.SCH.	
Courses	Plane Geometry

Total Revisions 2, Additions 5, Deletions 8. This compares to 9 Revisions, 12 Additions and 8 Deletions for the last fiscal year.

Comparison of Independent Study Statistics for Last Six Years

<u>Year</u>	<u># of Courses Offered</u>	<u>New Enrollments</u>		<u>Total</u>	<u>% of In- crease or Decrease</u>	<u>States</u>	<u>New Mexico Counties</u>	<u>Countries</u>
72-73	86	310	264	574	D-3.	38	22	6
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

The number of students actually enrolled in courses during 1977-78 including new enrollments, carry-overs, withdrawals and completions was 2087. Seven hundred and forty-nine students were enrolled in all courses during 1977-78 as compared to 644 in 1976-77. The enrollment distribution is depicted in the following chart with California, New York and Washington reflecting our overseas Armed Forces enrollees:

Geographical Distribution of New Independent Study Enrollments 1976-77

<u>New Mexico Counties</u>		<u>Foreign Countries</u>	<u>States</u>
Bernalillo	339	Central America 2	Alaska 3
Carlton	1	China 1	Alabama 1
Catron	4	Spain 2	Arizona 10
Chavez	19		California 27
Colfax	13		Colorado 2
Curry	3		Connecticut 2
Dona Ana	7		Florida 6
Eddy	3		Georgia 1
Gallup	1		Hawaii 3
Lea	3		Idaho 3
Lincoln	6		Illinois 3
Los Alamos	22		Kansas 4
Luna	3		Maryland 1
McKinley	36		Massachusetts 2
Otero	3		Minnesota 1
Rio Arriba	7		Mississippi 1

<u>New Mexico Counties</u>		<u>Foreign Countries</u>	<u>States</u>
Roosevelt	1		Nebraska 1
Sandoval	13		New Hampshire 1
San Juan	10		New Jersey 2
Santa Fe	47		New York 33
Sierra	2		North Carolina 2
Socorro	10		Ohio 2
Taos	13		Oklahoma 2
Torrance	1		Oregon 1
Valencia	26		Pennsylvania 2
			Tennessee 4
			Texas 10
			Virginia 3
			Washington 2
			Wisconsin 4
			Wyoming 4
<u>Total</u>	<u>594</u>	<u>5</u>	<u>140</u>

The total number of course offerings as of June 30, 1978, was 91. In the period covered by this report, 204 students completed courses, representing 564 college hours plus 2 non-credit courses. This compares to 354 college hours earned during the previous year. There is an increase in the completion of courses of 67.2%.

The Santa Fe Graduate Center was implemented by the

Graduate School during the 1975-76 academic year. The administration of this center is the responsibility of the Graduate School. The statistics below are presented here to indicate the numbers of individuals off-campus receiving credit courses from UNM. Many of these individuals previously enrolled as extension students, or would, if the center were not operational.

Santa Fe Graduate Center

1976-1977

<u>Fall</u>			<u>Spring</u>		
<u>No. of</u> <u>Enrollments</u>	<u>FTE</u>		<u>No. of</u> <u>Enrollments</u>	<u>FTE</u>	
	<u>Grad</u>	<u>Under</u> <u>Grad</u>		<u>Grad</u>	<u>Under</u> <u>Grad</u>
77	5	16	122	13	21
FTE for entire year - Graduate = 9					
Undergraduate - 18.5					

Santa Fe Graduate Center

1976-1977

	<u>Enrollments</u>		<u>FTE</u>	
	<u>Grad</u>	<u>Under Grad</u>	<u>Grad</u>	<u>Under Grad</u>
Summer 1976	72	64	6	.4
Fall	146	342	12	23
Spring	242	474	20	32

FTE for year = Graduate = 19
Undergraduate

Santa Fe Graduate Center

1977-1978

	Enrollments		Completions	
	Completions	Registrations	SCH	FTE
Summer 1977	113	120	339	28.25
Fall	157	190	471	39.25
Spring	159	201	477	39.75
Total for Year	429	511	1287	53.625

When the figures for extension class enrollments, Santa Fe Graduate Center enrollments, and Teacher Education Center enrollments are combined, it is readily apparent that there is a significant increase in the number of individuals enrolling in off-campus credit courses.

NON-CREDIT COURSES
(COMMUNITY COLLEGE)

NON-CREDIT COURSES (COMMUNITY COLLEGE)

Enrollments in non-credit courses did not change significantly in 1977-78.

Chart I

Enrollment Statistics, 1972-1977

	<u>Enrollment</u>	<u>UNM Waivers</u>	<u>Senior Citizens</u>
Sem. II 1972-73	2,169	316	NA
Sem. I 1973-74	2,486	205	NA
Sem. II 1973-74	2,746	242	NA
Sem. I 1974-75	2,919	237	65
Sem. II 1974-75	3,243	282	89
Sem. I 1975-76	3,805	320	83
Sem. II 1975-76	3,690	414	120
Sem. I 1976-77	3,869	416	106
Sem. II 1976-77	3,541	411	117
Sem. I 1977-78	3,973	417	289
Sem. II 1977-78	3,894	413	307

The only apparent increase has been in the number of senior citizen enrollments. This increase can be attributed to the availability of reduced senior citizen rates.

The number of courses offered remained constant, however, many additional sections were added. /

Chart II
Course Information, 1972-77

	<u>Number of Courses Offered</u>	<u>Number of Sections Offered</u>	<u>Number of Courses Cancelled</u>
Sem. II 1972-73	98	89	23
Sem. I 1973-74	92	97	15
Sem. II 1973-74	97	105	9
Sem. I 1974-75	87	110	4
Sem. II 1974-75	110	124	19
Sem. I 1975-76	106	135	11
Sem. II 1975-76	120	138	16
Sem. I 1976-77	110	131	14
Sem. II 1976-77	119	135	17
Sem. I 1977-78	133	165	18
Sem. II 1977-78	119	144	26

The major source of off-campus facilities remains the Albuquerque Public Schools. A special effort was made to expand offerings at Cibola High School to serve the West Mesa and Rio Rancho citizens.

The student profile has not changed significantly over the past years. There has been an increase in the number of individuals over 60 years of age.

Chart III

Profile of Students from Semester I, 1975 to Semester II, 1978

	I, 75	II, 76	I, 76	II, 77	I, 77	II, 78
Males	981 (.32)	1,253 (.36)	1,105 (.33)	1,262 (.38)	1,427 (.37)	1,451 (.38)
Females	1,910 (.62)	2,165 (.62)	2,173 (.65)	1,996 (.60)	2,465 (.63)	2,353 (.62)
Under 26	586 (.19)	610 (.18)	635 (.19)	552 (.17)	642 (.17)	508 (.13)
26 - 40	1,322 (.43)	1,659 (.48)	1,573 (.47)	1,642 (.40)	1,922 (.50)	1,937 (.51)
41 - 60	743 (.24)	880 (.25)	806 (.24)	832 (.24)	1,008 (.26)	1,041 (.28)
Over 60	165 (.05)	212 (.06)	188 (.06)	188 (.06)	298 (.07)	307 (.08)
Average Age	36.4	36.7	36.4	36.8	37.5	38.3
HS-No College	598 (.19)	694 (.20)	702 (.21)	683 (.20)	886 (.16)	790 (.14)
College	1,302 (.42)	1,431 (.41)	1,399 (.41)	1,325 (.40)	1,626 (.29)	1,629 (.29)
Postgraduate	810 (.26)	1,109 (.32)	997 (.30)	1,121 (.34)	1,212 (.21)	1,236 (.22)
Bachelors	918 (.30)	1,018 (.29)	997 (.30)	1,038 (.31)	1,154 (.20)	1,196 (.21)
Masters	291 (.09)	444 (.13)	391 (.12)	462 (.14)	493 (.09)	518 (.09)
Ph.D.	187 (.06)	253 (.07)	249 (.07)	302 (.09)	303 (.05)	291 (.05)

The Community College again offered three certificate programs--Real Estate, Small Business, and Social Services. The greatest increase was shown in the Real Estate program.

In an attempt to meet the needs for continued education requirements and the interest demonstrated by increased certificate program enrollments, a great deal of staff time has been devoted to certificate program development for next year. Instructors, students, and professionals working in the certificate program areas have been extremely helpful in the development of programs for next year.

NON-DEGREE STATUS

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. All classes scheduled after 4:30 p.m. are considered evening classes. Of the total student body 16.59% were enrolled in Non-Degree status, 9.9% of the total student body were registered for evening classes and 53% of the evening students were enrolled in Non-Degree status. Non-Degree students account for 12.60% of the daytime student body. 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 enrollment figures are reported for the past five years:

Comparison of Students Registered in
Non-Degree Status for the Past Five Years
 (Regular Semester Only)

Year	Semester	Students	% of Increase or Decrease Over Corresponding Periods	Total for Year
1973-74	1st	2852	17.9% Increase	5374
	2nd	2522	4.0% Increase	
1974-75	1st	3114	9.19% Increase	6125
	2nd	3011	19.39% Increase	
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	

The Division prepares and maintains personal folders for all students in Non-Degree status. Through these folders, up-to-date academic records on 10,117 students enrolled in Non-Degree status were kept during the past academic year. (This figure includes 2,404 students enrolled for the Summer Session 1977.)

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 1977-78 year, seventy-two Non-Degree students were

suspended; 963 students were placed on probation; 316 students were continued on probation; and 85 students were released from probation.

Non-Degree Probation and Suspension Figures

	<u>Placed on Probation</u>	<u>Continued on Probation</u>	<u>Suspended</u>
1975-76	681	240	16
1976-77	895	246	82
1977-78	963	316	72

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 addition to the Non-Degree students who are mainly taking evening courses, there are many other students from the regular colleges of the University who take only evening classes. This adds a considerable number to evening enrollments and the following chart gives comparative figures for the 1972-73 - 1976-77 period:

Comparison of Evening Class Enrollments
During the Past Five Years

Year	Semester	Students	% of Increase or Decrease over Corre- sponding Periods	Total for Year
72-73	1st	1422	21.0% Increase	2636
	2nd	1214	3.0% Decrease	
73-74	1st	1391	2.2% Decrease	2738
	2nd	1347	11.0% Increase	
74-75	1st	1994	43.3% Increase	3713
	2nd	1715	27.3% Increase	
75-76	1st	1926	3.4% Decrease	3871
	2nd	1945	13.4% Increase	
76-77	1st	2256	17.1% Increase	4580
	2nd	2324	19.5% Increase	

The chart above indicates that the number of night students for the 1976-77 school year showed an increase of 18.3% from the preceding year and the 1977-78 data is expected to show a similar increase.



THE UNIVERSITY OF NEW MEXICO

**GENERAL LIBRARY
ANNUAL REPORT
1977-78**





Paul Vassallo, Dean of Library Services. Photo by Bob Papstein

92% of the respondents to a User Satisfaction Survey indicated they found the library a "pleasant place to be". This unidentified youngster's smile seems to echo this sentiment. Photo by Art Plotnik.



Cover Photo: Sculpted wall mural "The History of Writing", designed and executed by John Tatschl, located in the Zimmerman Library. Photo by Bob Lawrence.

UNIVERSITY OF NEW MEXICO

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UNIVERSITY OF NEW MEXICO
GENERAL LIBRARY

Annual Report, 1977-1978

Paul Vassallo
Dean of Library Services

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UNIVERSITY OF NEW MEXICO
GENERAL LIBRARY
REPORT FOR 1977-1978

INTRODUCTION

During the fiscal year 1977/78 there were three very significant events which highlighted the direction the University of New Mexico General Library has taken in the past four years and the direction it plans to take for the next five years.

After more than a year of study, discussion, and planning, on December 13, 1977, the University Faculty Library Committee approved the adoption of the Position Paper on the Mission, Goals, Objectives and Tasks of the General Library as the guiding document for the operations of the General Library for the next five years. The position paper represents a most constructive and cohesive effort on the part of the Library to move ahead on a well-planned and systematic basis. The document is in no way intended to serve as a dictum for all to follow; rather, it is intended to serve as a living document whose flexibility will allow adjustment as needed and as justified. It is unfortunate that the Position Paper cannot relate to a similar document at the total University level, as so far none exists. It is hoped that the University will adopt a position paper that provides a more coherent sense of direction for the Library in the university community.

It is hoped, too, that the process of completing a University position paper will be expedited by another event. During the second half of fiscal year 1977-78 the University was engaged in the preparation of a self-study to present to a team scheduled to come for a North Central Accreditation visit in early calendar year 1979. The General Library under Assistant Dean Alice Clark's direction, prepared an excellent report entitled To Create and Maintain a Research Library at the University of New Mexico: A North Central Accreditation Self-Study.

The exercise of self-study provided an invaluable opportunity for placing the Library's progress in perspective. The "Summary Statement" in the report noted:

"In the nine-year interval between the two visits of the North Central Association team, and especially during the last five years, better management techniques and practices have led to major improvements in all of the areas criticized in the 1969 report. The 1969 North Central Association (NCA) accreditation report for the University of New Mexico stated that 'the library is one of the weakest resources of the institution.' Specifically, administration, funding, staffing, salaries and holdings of the General Library were faulted."

The report identifies in detail the areas where improvements have been made. It does, however, conclude that:

"While the General Library has made giant strides in all the areas faulted in the last NCA report, there is still a need for improvement. Holdings need to be increased to a level adequate to support the varied academic programs of the University. A level of approximately 1.1 to 1.3 million volumes would constitute a minimal level. To reach this goal special fundings should be sought. After this minimal goal of approximately 1.4 million volumes is reached, the appropriated budget for library materials also needs to be increased so that the level for yearly minimal growth for current materials would be 87,000 volumes."

The third marker event was the submission of the Report of the Task Force on the State-Wide Interlibrary Cooperative System for New Mexico to the New Mexico State Library Commission on December 5, 1977.

This Task Force, whose creation was initiated by the Dean of Library Services, represents the first major effort by the University of New Mexico General Library not only in taking a leadership position, but also in expanding the concept of resource sharing. The staff of the UNM Library and the UNM Data Processing Center should be commended for the work that they did to outline a system which would enhance the availability of materials in all libraries through resource sharing.

With the continued support of the Office of the Provost, the University President, the faculty and students, the General Library has established a mechanism and the momentum to maintain its progress towards becoming a true research library.

ADMINISTRATIVE SERVICES AND OFFICE OF THE DEAN

Administrative Services fulfills a support function for all areas of the General Library: Zimmerman, Fine Arts, Parish, and Tireman Learning Materials Library. Included in this function are the following activities: Systems and Development, Fiscal Control, personnel, Buildings, and the Office of the Dean.

Systems and Development

Harry Broussard, Assistant to the Dean for Systems and Development, concentrated his activities on developing a major proposal for a state-wide inter-library cooperative system. This project involved organizing

seven forums at selected sites across the state to explain the system and to seek input from those attending the forums. In addition, Mr. Broussard has worked to improve statistical reporting methods, and has been instrumental in developing a strong liaison with the Data Processing and Computer Centers.

Assistant to the Dean for Management

Neosha Mackey, Assistant to the Dean for Management, announced her resignation, effective December 1, 1977. She was replaced by Margo C. Trumpeter in March 1978. The Assistant to the Dean for Management is responsible for Fiscal Control, Buildings, Personnel, and the Office of the Dean. The responsibilities in the Administrative Services Office were realigned in May 1978 to allow the Administrative Assistant to devote her time and energy to the Physical Plant and to allow the Dean's secretary to supervise the office.

Security

3-M automatic book checking systems were installed in Parish, Fine Arts and Zimmerman Libraries. These "electronic security guards" will cut substantially the number of volumes leaving the library illegally, thereby providing our clients better service and a real savings in missing book replacement and processing costs.

Personnel Functions

The personnel function of the Administrative Services Office was greatly aided by the assignment of Mary Ann Lopez as Personnel Coordinator. Ms. Lopez is responsible for hiring all student and staff employees, for keeping their records, and for carrying on exit interviews with those who terminate. In addition, she organizes all the materials for faculty search committees.

To complement the personnel efforts, a library fact sheet, comprised in part of a concise statement of university policy regarding faculty status and benefits, was prepared to send to potential candidates for library positions. The fact sheet is also used for library information purposes.

The Library's commitment to affirmative action is a genuine one. It is reflected in its concerted efforts to recruit minorities for staff and faculty positions. The Library has worked with CETA, the National Indian Youth Council and the Department of Vocational Rehabilitation to provide employment opportunities. In addition, a search committee's procedure manual was prepared to assure both consistency in their actions and compliance with the Library's affirmative action and equal employment opportunity commitment.

Fiscal Control

The Fiscal Services group of the Administrative Services Office became responsible for the accounting function of; the Copy/Media Center (billings amounting to more than \$143,000 per year and payment of invoices amounting to \$124,000 per year), Interlibrary Loan, and the Online Data Base. This responsibility is in addition to payment of all invoices and purchase orders, issuance and control of purchase requisitions, preparation of payroll time reports representing 253 staff and students in the amount of 1.6 million dollars. The staff's annual and sick leave records are also maintained by this unit. Fiscal Services prepared and controlled a 3.34 million dollar budget, in addition to all grants, gifts, and special accounts in fiscal year 1977-78.

BATAB's (Baker and Taylor Automatic Buying System) fund control, one of the tools used by Fiscal Services, has also been improved over the past year. The Library now has an insufficient funds balance edit, whereby an order cannot be issued by BATAB unless sufficient funds are available to pay for such an order. The Fiscal Control Committee continued to maintain control over expenditures through the BATAB system for materials. This committee, chaired by the Assistant Dean for Collection Development, was made up of representatives of Fiscal Services, Acquisitions, and Serials. Fiscal Services took part in the planning of the phase IV of BATAB which is to be implemented during fiscal year 1978-79.

Dean of Library Services

Dean Vassallo served as Chairman of the Task Force on a State-wide Interlibrary Cooperative System for New Mexico during much of 1977. This project involved trips to Portland, Oregon for meetings with a consultant and travel around the state to conduct a series of hearings. These meetings provided valuable input from state residents concerning their particular library needs. The task force's Final Report was published December 5, 1977.

During 1977-78 the Dean continued to serve as chair of the Council of New Mexico Academic Libraries (CONMAL). He also was the chair of the New Mexico Library Association Federal Relations Committee in addition to being a member of the Legislation Committee of the Association of College and Research Libraries. Dean Vassallo was also active as a member of the Albuquerque Chamber of Commerce Cultural Committee. The Provost appointed him to chair the Search Committee for the Associate Provost for Research. The committee screened more than a hundred applicants before Joseph Scaletti was selected for the position.

"Resource Sharing in New Mexico," was the topic of Dean Vassallo's keynote address to the 22nd Annual Military Librarians Workshop in October 1978. His speech was later published in the Proceedings of the

workshop. He was also the keynote speaker at a meeting of the New Mexico Data Processing Managers Association in June 1978. At a conference on Library Education at the University of Arizona Graduate Library School, April 7 and 8, 1978, the Dean participated as a panelist in discussing, "What Should Library Education Be Doing?"

In July 1978, Dean Vassallo attended the 23rd Annual Meeting of the Seminar on the Acquisitions of Latin American Library Materials (SALALM XXIII) in London, England. While there, he issued an invitation to hold SALALM XXV at the University of New Mexico. The 25th anniversary meeting will be held at UNM in May 1980.

The Dean also served as a member of the planning committee and as a delegate to the New Mexico Pre-White House Conference on Libraries and Information Services held in Santa Fe, November 1978, where he chaired the session in which resolutions were adopted. At this conference he was elected as one of two library delegates to represent New Mexico at the White House Conference to be held in October 1979 in Washington, D.C.

Director for Library Communications

When the Assistant Dean for Collection Development returned from his six-month sabbatical, he was offered a newly created position as Director for Library Communications. Because of his work on the first five-year bond issue for library materials and because of the Library's clear need for supplementary funding, Mr. Miller accepted the challenge of this new position.

Liaison with the UNM Public Information Office was established formally between the Director and Frank Martinez of that office. All Library publicity must now either originate in or be cleared through the Office of the Director for Library Communications. A procedure was devised wherein all faculty grants and library questionnaires must now be cleared through the Office of the Director for Library Communications where central files are being kept.

Although the questionnaires are usually filled out in various other departments of the Library, coordination takes place in the above office; in that way, some duplication can be avoided, and follow-up is assured.

Friends of the UNM Libraries

The Friends of the UNM Libraries underwent a number of significant changes during fiscal year 1977-78. Organizationally, the Friends were incorporated at the end of fiscal year 1978. Library office space was provided for the Executive Director. Joe Silva was hired as a half-time secretary in January 1978, and Don Gere became Acting Executive Director

in February on a voluntary basis. In April, it was decided that an Executive Director must be hired, and a job description was written. Mr. Gere agreed to continue serving until a replacement is found.

Two lectures were sponsored by the Friends in 1978. Rudolfo Anaya spoke in February on "My Heritage and My Books," and Pita Kelekna spoke in April on "Drama and Music of Jivaroan Achuara." The annual dinner was held on May 11 at the Four Seasons. Bertha Dutton and Caroline Olin gave a slide lecture on the petroglyphs of San Juan Canyon.

The social event of the season, sponsored by the Friends, was the reception held June 9, 1978 for the participants in the Third Annual New Mexico Writers Workshop. Over two hundred guests enjoyed the hospitality of the Friends and Library, making the reception and autograph party the most successful Friends' event to date.

COLLECTION DEVELOPMENT DIVISION

The Collection Development Division underwent a number of changes during the 1977-78 year. Assistant Dean George Miller, who had administered the Division since its inception, was on sabbatical leave from November 1, 1977 to April 30, 1978 to work toward meeting publishers' deadlines for two books. Upon his return he assumed the position of Director for Library Communications. During Mr. Miller's sabbatical, Dr. William Hannaford, Humanities bibliographer, served as Acting Assistant Dean for Collection Development. Since Dr. Hannaford was preparing to assume a position in another library in May, Daniel Lester, Assistant Dean for Technical Services, was appointed Acting Assistant Dean for Collection Development for the period beginning May 1, 1978. This appointment was made on an acting basis for an indeterminate period, as the Dean of Library Services has decided to wait several months before deciding what the future of the Collection Development Division would be. Studies of future alternatives were scheduled for the fall of 1978 with a decision and implementation to be made in early 1979.

Selection of Materials

As the Library neared the exhaustion of the bond issue revenue, priorities in the Collection Development Division changed from the purchase of large collections and blocs of materials to title-by-title selection of specific books and journals.

Selection of materials on a title-by-title basis takes a greater amount of time than bloc purchases or approval plans, but all of the bibliographers and selectors have been very cooperative and willing to give this time, not only because they recognize the fiscal necessity but also because they feel unanimously that title-by-title selection is

a better method for this library at this time. The bibliographers and selectors were called upon to re-evaluate many of the materials that were originally purchased as part of collections during the 1973-1977 period, in order to determine whether or not these materials should be added to the Libraries' collections. With their expertise and a great deal of time and effort, this job has now been completed.

Serials

Throughout the 1977-78 fiscal year new serials were purchased only when another title of comparable dollar-value was cancelled. This policy was implemented to try to hold the line on increases in the serials budget, which has been skyrocketing due to inflation and the addition of new titles. This policy has eliminated net additions but, of course, has not done anything to reduce the effects of inflation. As inflation continues and the chances for another bond issue are lessened, at least temporarily, another hard look will have to be taken at serial expenditures.

Fiscal Control

Fiscal control has been improved in a variety of ways during this past year. Selectors and bibliographers continued to have input in establishing the allocations to each agency in the accounting system. As a result, the allocations were realistically assigned, and fewer adjustments have been necessary. The allocations, however, are still based on past expenditures, on rough estimates of current needs, and on inflationary increments, rather than on any formula or other scientific procedure for assignment. Some libraries have tried to develop formulas for allocating funds, but so far none has found widespread acceptance; thus, no formula has been tried at UNM since the modified Coney formula was used in the pre-bond issue years of limited funding.

Major Purchases

In spite of the fact that most selections this year have been title-by-title, several major purchases were made. Some of them had been previously reserved because of lack of current funds, and some were purchased out of this year's budget.

1. Great Britain. Public Records Office. Unpublished Records (the final set of microfilm in a four-year program.)
2. Przybyla Music Collection
3. Sadtler Spectra
(A backrun.)

4. Catalogues of the Paris Salons, 1873-1881.
5. Fine Arts Title-by-Title Selections.
6. Bibliographies and catalogs of incunabula.
7. Dictionary Catalog of the Teachers' College Library (Columbia).
8. Human Relations Area File.
9. S. K. Lawton Photographic Album of Ceylon.
10. Personal Name Index to the New York Times.

Each one of the above purchases followed a new procedure, which includes (1) a justification by a bibliographer or selector and one or more members of the teaching faculty, (2) a recommendation by the Assistant Dean for Collection Development, and (3) approval by the Dean of Library Services. Thus, this represents a further refinement of fiscal control.

Gifts

The General Library has received many significant gifts this year. Among the more notable were:

A gift of miscellaneous publications including a collection on art and literature produced by Chicano prisoners, "Los Pintos;" and Four Hundred Years of Chicano History, an out-of-print illustrated history, were donated by Margaret Garcia.

Nine microfiche readers were a gift from Tektronix, Inc.

New Mexico author Rudolf Anaya donated the manuscripts of Bless Me, Ultima and The Heart of Aztlan to the Library. A public presentation was made in the hopes that more authors would be encouraged to follow in Anaya's footsteps.

Materials added to existing archives included additions to the T. M. Pearce Collection, the New Mexico Historical Review, Barelas Archives, Women of New Mexico and the Manuel Lujan papers.

The Meem Collection of Historical Architectural Documents received architectural drawings from the firms of the following individuals:

John W. McHugh	100 sets of drawings
William E. Burk, Jr.	391 sets of drawings
Arthur H. Lewis	281 sets of drawings
Louis G. Hesseiden	240 sets of drawings
George Clayton Pearl	1 set of drawings

Other gifts to the Meem Collection were (1) a contribution of \$3,000,000 from John Gaw Meem, (2) xerox copies of U.S. Army Quartermaster headquarters in Old Town from Donald A. Dreesen, and (3) a twenty year run of the Construction Reporter from Frank Cronican.

The Library wishes to express it's appreciation to all whose support through gifts of materials, equipment, and money have allowed us to offer our users a more full and efficient service.

Intra-University Library Cooperation

Communication with the School of Law Library and the Medical Center Library has not developed as anticipated, but several attempts at improved cooperation and communication have been made. However, few formal meetings, and no regular meetings, have been held; as a result, none of the proposed cooperative campus-wide collection development policies have been written. As of the end of the fiscal year, eleven collection development policy statements have been written and approved within the General Library system, 16 are in draft form and approaching approval, and 22 have yet to be done.

Divisional Special Projects

The bibliographers and selectors spent much of their time in 1977-78 on a variety of special projects. The report to the National Council on Accreditation of Teacher Education was prepared for the College of Education. Volumes for the Belen Branch, UNM Eastern Valencia County Satellite were selected and arrangements made to begin the library in Belen. All materials on Pharmacy and Dentistry, with the exception of a few popular titles or reference books, were withdrawn from the General Library collections and transferred to the Medical Center Library, since these programs were moving to the north campus. Mr. Miller assigned Dr. Robert Divett to do a major survey of the Learning Materials Center in cooperation with the faculty and administration of the College of Education. As a result, Dr. Divett recommended that the Learning Materials Center, a curriculum library for teachers, become administratively a part of the General Library. This change was approved, and the Learning Materials Center was renamed the Tireman Learning Materials Library. Consequently, a great

deal of extra work was required to add materials to that collection in order to bring it up to date; in addition, many obsolete and unneeded materials were withdrawn.

The Future of Collection Development

The 1978-79 fiscal year will be one of transition, as the Library continues to wind down from the high material budgets of the bond issue years, to the more "normal" budgets of the pre-bond years. Regardless of the exact level of funding, it is vital that all involved with collection development activities adjust themselves to careful selection procedures that will provide what is needed without any extravagance. All of the blanket order and approval plans are undergoing continual evaluation for their effectiveness and relevance to the University of New Mexico General Library and its support of the University's programs. A reallocation and reassignment of staff to achieve a greater efficiency will have to be examined. But no matter who is performing the collection development activities, training will need to be improved for all who are involved. Training will also need to be improved in weeding of unwanted materials from the collections, as space will begin to be a problem, particularly in the branches, within the next few years. Procedures for spending funds by the end of the fiscal year will also need to be improved. In the future all funds will have to be expended by the end of the fiscal year rather than carried over, as was possible with unspent bond funds.

The next year will continue the transition that was begun this past year. There will certainly be trying, frustrating and confusing times as the changes continue; but with the continued cooperation and the positive attitude that has been expressed this year, the future brought to Collection Development by change will be one that has been shaped and successfully planned for.

READERS' SERVICES DIVISION

The year 1977-78 was for the Readers' Services Division a bridge between past and future as two major management documents were completed. One, the self-study for the coming visit of the North Central Accreditation team, required that past and existing activities be examined and current practices be evaluated. The other document, the Position Paper on the Mission, Goals and Objectives of the General Library, looked to the future and outlined many specific tasks to be done. Work has begun on these tasks, and other tasks have emerged as the document made people more aware of their objectives and goals.

In an effort to meet Goal I, of the Position Paper on the Mission, Goals and Objectives of the UNM General Library, "To support the University's programs of instruction, research and service," faculty from the

Readers' Services Division were involved in programs sponsored by other offices and departments of the University. During the period when the Equal Opportunity Office (Affirmative Action Office) was without a director, the Assistant Dean for Readers' Services conducted an equal-pay examination for the Provost. Through work with a subcommittee of the Faculty Library Committee, a procedure was set up for routing periodicals to faculty under carefully controlled conditions. In cooperation with the Collection Development Division, assistance was given to the committee from the College of Education in preparing their self-study for NCATE. Advice and consultation was also given to the College of Education on providing library resources for the on-site teaching programs.

The German Section of the Department of Modern and Classical Languages was provided with special help in setting up their library support services for the Deutsche Schule at Taos Ski Valley. A procedure was designed to provide library services at the proposed Eastern Valencia County Satellite Center at Belen in anticipation of this new program of the Division of Continuing Education. A meeting was held to coordinate library service with the Medical Center Library.

Library Orientation

Efforts have been continued toward making the library orientation and instruction programs more effective by broadening subject coverage, by evaluating existing instruction, and by preparing new instructional materials. The quality of these instructional materials has been improved due to instruction in the design of orientation programs received by library faculty during attendance at conferences.

Orientation and Instruction Statistics

	<u>Students</u>	<u>Classes</u>
Assistant Dean (Readers' Services)	42	2
Reference	6,052	142
Fine Arts	427	17
Parish	104	6
Special Collections	733	54
	<u>7,358</u>	<u>221</u>

An orientation for new teaching faculty was instituted this year, and a two-hour session was held on August 17, 1977. Members of the Library faculty were introduced and information of concern to teaching faculty was presented. Such areas as reserves for coursework, procedures for submitting book orders, and the student orientation program were discussed. A presentation on the use of ERIC (Educational Research Information Center) was sponsored by the Library during the Spring Semester.

The Special Collections Department and the Ethnic Studies Department devised a coordinated program to promote the use of their materials. Members of the teaching faculty whose areas of expertise appeared to need the resources of these departments were contacted by letter. Tours and presentations were then given. This effort coupled with personal visits to professors proved to be a highly successful method of alerting the faculty to the resources available for their use.

Tireman Learning Materials Library

A major responsibility was added to the Readers' Services Division this year. At the request of the Dean of the College of Education, the General Library agreed to take over temporarily and run the Learning Materials Center on January 1, 1978. The General Library was also asked to prepare a proposal for transferring the administration of this unit to the Library on a permanent basis.

Upon approval of this proposal by the faculties of the College of Education and the General Library, a temporary librarian and an LTA II were appointed and a search was begun for a permanent faculty appointment as head of the unit, now named the Tireman Learning Materials Library. The physical arrangement of the facility was entirely changed in order to provide a more utilitarian and attractive working space. In addition, longer hours of service were inaugurated. A collection development policy is being written and an allotment for purchase of materials has been committed.

On-Line Searching

An important step was taken by the library in the provision of access to on-line indexes and abstracts through the systems of Lockheed Information Systems, Systems Development Corporation, and the New York Times Information Bank. A temporary librarian and coordinator were appointed for the service, and a search committee was appointed to find a candidate for a permanent faculty appointment. Space alterations were made; terminals were selected; and policies, procedures and public announcements were developed. An extensive training program was set up to teach the subject-specialist reference librarians to search the three systems and the techniques of the various bases. The Lockheed Information Systems put on a training program on October 20 and 21. Since New Mexico State University was bringing up the same service, we were able to cooperate on the training programs. Reference librarians attended training programs in physics, biology, chemistry, business and management data bases.

State-Wide Interlibrary Cooperation

The responsibility of the University of New Mexico Library "To

establish a cooperative relationship with the state-wide community for maximum library and information services in New Mexico." was acknowledged in Goal II of the Position Paper.

Attempts to reach this goal are seen in the efforts made to extend the General Library's services to a broader clientele and to extend outreach services that reflect the Library's mission to serve the citizens of New Mexico.

Final arrangements were completed to set up a one-year trial for a joint-access program with the Albuquerque Public Library. This program resulted in our referring eleven people there for use of such materials as craft books, cookbooks, automobile manuals and popular novels. The public library issued 156 cards for use of the UNM General Library, but actual usage was for only 100 books to 21 people. A survey of those people who were granted cards indicated a positive feeling about the program far in excess of its actual use.

Meetings were held with the Director of the University of Albuquerque Library to investigate ways to extend this program to their students. A contract was negotiated with the Sandia Laboratories Library for paging, photocopying, and delivery of materials to that library.

A grant of \$1,500 was received for participation in a joint project with the Albuquerque Public Library and the Museum of Albuquerque for preservation and better access to the photographs of Albuquerque subjects held in the collections of the three institutions. The project consists of preparing (1) contact prints for use as a browsing collection so that users will not have to touch the original plates, (2) negatives which can later be printed if a user desires to purchase a copy, and (3) a computerized index to the total collections by which each institution can locate photographs in their own or the other collections.

The importance of planning these cooperative projects cannot be overestimated. Plans for the coming year include two major projects which are already under way: (1) a cooperative approach is being made through the Council of New Mexico Academic Libraries (CONMAL) to seek state-wide funding for library materials, and (2) plans are underway to set up an automated circulation system in close cooperation with the Albuquerque Public Library with a coordinating committee that will permit compatibility with special libraries in Albuquerque. It is expected that specifications will be designed so that a vendor can be sought within one year.

Recommendations have been made to continue the joint-access program with the Albuquerque Public Library for another year under modified procedures. An attempt will be made whereby students at the University of Albuquerque will be served on a similarly limited basis through the public library. A comparable program will be pursued in an attempt to offer privileges to local public school teachers.

Investigations will be made to investigate joint purchase and storage of government report literature by the General Library, the Los Alamos Library and the Sandia Laboratory Library.

Interlibrary Loan

At national meetings of librarians this year, attention has been focused on interlibrary loan concerns as a result of (1) the restrictions set by the new copyright law, (2) the financial crunch that declining enrollments have put on book budgets, (3) the increasingly common practice of libraries that feel they must charge for lending, and (4) the attention on networking which has resulted from the governor's conference taking place in anticipation of the White House Conference on Libraries. These considerations and other problems resulted in our making a greater effort to adjust our services to the reality of the situation.

We are placing more reliance on SWALC (Southwest Academic Library Consortium) members, on maintaining our credibility as a borrower by better adherence to the ALA Interlibrary Loan Code, and on an effort to avoid using as sources those libraries that charge a fee.

These problems were compounded here by changes in personnel, extended sick leaves and a growing backlog of unfilled requests. In an effort to improve the situation, a faculty position was transferred to this service, an additional half-time staff position was added, and more formal procedures were adopted. On January 9th, the backlog was finally eliminated. A priority statement was prepared listing preferred sources for various kinds of materials. Procedures were set up for monitoring the number of copies borrowed under the new copyright law and for tabulating the results of these regulations so that a five-year report can be prepared for the Register of Copyrights.

Copyright and Photocopying

When the Copyright Act of 1976 (PL 94-553) became effective on January 1, 1978, a Readers' Services workshop on the new restrictions was held for all staff involved in photocopying. A handbook interpreting the guidelines was distributed. This handbook was subsequently modified as more information appeared from national associations and as actual practice dictated. The University Provost and the Faculty Library

Committee cooperated in helping to inform the teaching faculty about the Library's need to comply with the law. As a result of the involvement with the guidelines for the new law, library personnel were able to share their manuals and procedures with the deans, the Research Policy Committee and with outside groups such as the local chapter of the American Society for Training and Development.

Inventory Control and Improved Access

Better inventory control and access to materials is an on-going objective for all areas of the Library, and progress was made by inventories of the circulation files, inventory and reclassification of the map collection, inventory and rearrangement of the microform collections, and inventories of Special Collections materials. Improvements in access were accomplished by the addition of more indexes to the Government Publications Section, the completion of an excellent Guide to the Microform Collections of the UNM General Library. In addition, there was increased work on cataloging music phonodiscs and art exhibition catalogs, and the development of a priority statement for recataloging.

Services to the Disabled

In recognition of the difficulties of disabled clients, the library has begun to offer on-line index searching to people who are unable to use the manual indexes. A personal commitment on behalf of the library personnel is recognized by staff participation in training sessions on manual language for the deaf.

Parish Memorial Library

Planning was begun for increasing space in the Parish Library as a part of the proposed additions to the Anderson Schools of Management Building. In order to determine the projected needs, the role of the Parish Library was studied. The Anderson School sponsored a visit by Marion Smith, a consultant from the Stanford University Business Library. Ms. Smith's report is being analyzed and will be used as plans develop during the coming year.

User Satisfaction

Two studies were done to measure the satisfaction of the users of the Library. An evaluation was made of the new loan policy which had been in effect for one year. The results of a questionnaire indicated the need for a change in the loan period for graduate students and for a lower fine policy. Another user study was done to determine the image users have of the library. Questions were asked about the experience of users on the day they completed the questionnaire rather than their

general opinion. Response showed an 84.8 per cent positive feeling and 92 per cent finding the libraries pleasant places to use. The most significant area for possible improvement was found to be the need for longer hours.

TECHNICAL SERVICES DIVISION

The Bond Years and Backlog Elimination

This year has been one of realignment, from the peak purchases of the first four bond-issue years to the reduced purchases of this fifth and final year of the bond funds. In order to ease the change from large bond budgets to smaller "normal" university appropriations, over \$300,000 of bond funds were carried over to the 1978-79 fiscal year. The backlog of materials purchased in large blocs early in the bond years was eliminated during this past year. The backlog that had accumulated was made available during 1976-77 and was fully cataloged by the end of 1977-78. The chart below illustrates the titles received and cataloged for the 1972-78 period.

<u>Fiscal Year</u>	<u>Titles Received</u>	<u>Titles Cataloged</u>
1972-73 (pre-bond)	20,571	20,916
1973-74 (bond year 1)	34,522	27,414
1974-75 (bond year 2)	41,920	29,758
1975-76 (bond year 3)	49,401	36,854
1976-77 (bond year 4)	43,646	58,359
1977-78 (bond year 5)	28,523	52,013

At the present time the working backlog is even lower than it was before the bond issue began, since the number of titles cataloged during the past five years is 6,000 more than the number currently received.

Serial Backlog

As a part of the backlog elimination, all books that were stored in Tower-Level 9 and serials that were stored in the "wind tunnel" were examined by the selectors and bibliographers for relevance to our collections. Some items that had been tentatively chosen during earlier cursory examinations were rejected during this more careful examination. The materials that were not selected were added to those materials donated to the Library in the past that were deemed inappropriate for our collections and held for disposition at a future sale of surplus materials. Considerable time was spent negotiating a policy for the legal and proper disposal of these surplus materials. Finally, the University Counsel approved a draft policy that is being followed pending its final approval by the President.

Intralibrary Job Exchanges

A new policy allowing the temporary exchange of jobs between Library employees was implemented this year with excellent results. Two paraprofessional employees in Acquisitions and Bibliographic Control switched for three months, as did two professionals in Special Collections and Bibliographic Control. The reports of the employees involved were quite positive, and the exchanges appeared worthwhile as a method of improving cross-training and morale.

Acquisitions Department

The reduction of funding due to the impending end of the bond funds created a number of changes in policies and procedures. The "add-one, cut-one" policy for serials subscriptions and standing orders created additional work for the searchers and for the Serials Department, as one serial had to be cancelled for each new one that was begun. Also, approval-plan profiles were revised so that fewer materials came automatically and more individual orders were prepared. This policy change also increased the workload of the Acquisitions Department, but a smooth order flow was maintained. To further improve the selectors' and bibliographer's knowledge of the materials being added to the Library collections, firm-order review shelves were established so that all would have an opportunity to see the books that had been received during the preceding week. At the present time, all materials arriving in the Library are displayed for one week, so that any faculty member or librarian has the opportunity to get a good picture of the development of the Library collections. In these days of tightening budgets and a variety of interdisciplinary studies, this change should significantly improve our collection development.

Serials Department

The Serials Department was studied by two consultants during November 1977; their report was received in March of 1978. The report has already had a significant impact on the present operations and future development of the Department. Many of the changes recommended will await the arrival of new department heads for Bibliographic Control and Acquisitions; but the Serials Department has already improved bindery procedures and forms, improved claim procedures, and begun teletyping claims to the Faxon Company, our major periodical supplier. This new procedure has resulted in improved service on claims. The Serials Department has also assumed the responsibility for the distribution of exchange copies of the *New Mexico Historical Review*. This change has given the Library complete control of this operation for the first time, with the beneficial results of complete and accurate records, replacement of some paid subscriptions by exchange subscriptions, and more rapid receipt of exchange issues. Also, the Department transferred all the

subscriptions it had previously handled for the UNM Northern Branch to the newly independent Northern New Mexico Community College.

Many improvements in policies and procedures were implemented during the fiscal year. Some of the most significant include the transfer of responsibility for the purchase of government publications from the Acquisitions and Serials Departments to the Government Publications Section of the Reference Department, the development and mandatory usage of work-forms for records being input to the OCLC cataloging system, the development of a Series Authority File for cataloging standardization, and the beginning of a Name Authority File for Spanish and Portuguese surnames.

CONCLUSION

By fiscal 1977-78 the General Library had established a modicum of internal order that permitted it to assume a leadership role in the state. The Position Paper provided a more coherent and cohesive focus for its own internal sense of direction. Thus, during the major part of calendar 1977, the Dean was able to lead a major concentrated statewide effort resulting in the publication of the Report of the Task Force on the State-Wide Interlibrary Cooperation System for New Mexico. That work signalled the fulfilling of the General Library's own mission statement:

The mission of the University of New Mexico General Library is to provide library services which support the programs of the University for the benefit of the University community and the residents of New Mexico.



Paul Vassallo

Dean of Library Services

SIZE AND GROWTH OF THE COLLECTIONS

Fiscal Year 1976-1977

Number of Cataloged Volumes, 6-30-76	779,222
Volumes Added (Net) 1976-1977	66,848
Number of Cataloged Volumes, 6-30-77	847,070
Serial Titles in the Central Serials Record, 6-30-77	22,763

Fiscal Year 1977-1978

Number of Cataloged Volumes, 6-30-77	847,070
Volumes Added (Net)	69,527
Number of Cataloged Volumes, 6-30-78	916,597
Serial Titles in the Central Serials Record, 6-30-78	25,056

Other Processed Materials in the Libraries

<u>Category</u>	<u>June 30, 1976</u>	<u>1976-77</u>	<u>June 30, 1977</u>	<u>1977-78</u>	<u>June 30, 1978</u>
		<u>Net Added</u>		<u>Net Added</u>	
Maps	79,824	9,708	89,532	9,256	98,788
Microfilm (Reels of Varying Lengths)	54,159	2,122	56,281	1,669	57,950
Microcards	169,224	315	169,639	*	
Microfiche	456,101	59,460	515,561	54,631*	739,831
Phonodiscs	12,815	1,154	13,969	975	14,944
Tape Recordings	293	123	416	176	592
Slides	6,020	509	6,529	0	6,529
Transparencies	2,183	0	2,183	0	2,183
Motion Pictures	102	0	102	0	102
Film Loops	105	0	105	0	105
Pamphlets and Catalogs	7,556	953	8,509		

(Pamphlets and Catalogs have been dropped as a category)

* Microfiche and Microcards were combined into one category this year.

READERS' SERVICES STATISTICS

	<u>1976-77</u>	<u>1977-78</u>
Library Use	-- ²	279,312 ¹
Zimmerman	--	--
Parish	144,559	146,296
Fine Arts	143,611	133,016
Tireman	--	--
Outside Circulation	336,194 ³	390,393 ⁴
Total Circulation	534,416 ⁵	350,860
Zimmerman	328,664	234,845
Parish	13,832	13,519
Fine Arts	191,920	94,068
Tireman	--	8,428
Reserve Circulation	94,470	96,966
Zimmerman	66,948	74,617
Parish	10,643	10,083
Fine Arts	16,879	12,266
Tireman	--	--
Interlibrary Loan Service	11,201	10,486
Borrowed	5,138	4,714
Lent	6,063	5,772

¹ Fine Arts and Parish only

² Zimmerman use statistics are not available because of the remodeling of the entrance area and the removal of the turnstiles.

³ Does not include material charged out for use within the buildings proper of Zimmerman, Parish and Fine Arts.

⁴ Includes interlibrary loans and reserve but does not include the Listening Center or Evaluation Center

⁵ Includes material charged out for use within the buildings proper of Zimmerman, Parish and Fine Arts

LIBRARY EXPENDITURES

for 1977-1978

1977-78The General Library
University Funds:

Salaries	\$ 1,588,815
Supplies and Expenses	80,059
Furniture and Equipment	15,574
Travel	4,598
Data Processing	70,221
Books and Serials	710,915
Binding	55,077
Fringe Benefits	NA

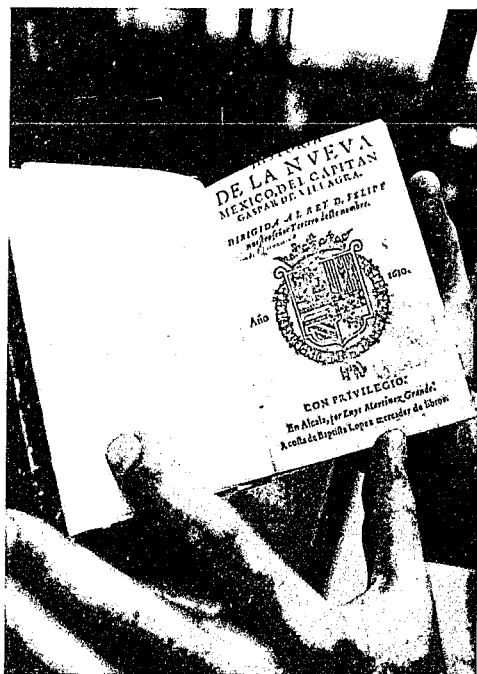
Non-University Funds

Bond Issue	315,592
Basic (HEW Grant)	3,855
Gifts	-0-

Totals

\$ 2,844,706

It is the policy of the University of New Mexico to provide equal opportunity in all personnel actions including employment, compensation, benefits, transfers, layoffs, 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.



The first edition of Captain Gaspar de Villagra's epic poem of the conquest of New Mexico published in Spain in 1610. The existence of less than twenty copies of this book is recorded. The book was given to the University by Thomas Sidney Bell, a member of the first graduating class and the first Rhodes Scholar from New Mexico. The University of New Mexico copy once belonged to the great popularizer of New Mexican life, Charles F. Lummis, whose signature appears on the title page.

Photo by Art Plotnik.

Right: Tony Hillerman, who incorporates his own impressions of New Mexico into his popular mysteries is seen here talking with columnist Howard Bryan of the Tribune at the Third Annual New Mexico Writers Workshop reception. The reception was sponsored by the Friends of the UNM Libraries.

Photo by Jerry Teale.



The University of New Mexico

THE REPORT OF THE OFFICE OF GRADUATE STUDIES

July 1, 1977 - June 30, 1978

Bernard Spolsky
Dean of Graduate Studies

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I. Administrative.

At the beginning of the year, the Graduate School ceased to exist and was replaced by the Office of Graduate Studies. The Dean of Graduate Studies reports directly to the Provost and serves with the Associate Provosts and the Dean of Library Services on the Provost's Council; he continues to be a member of the Council of Academic Deans.

Professor Mary B. Harris acted as one of the two Associate Deans during the academic year, choosing to return to full-time research and teaching at the end of this term. Professor A. Charlene McDermott of the Department of Philosophy was selected to replace her for the coming year.

A reorganization took place in the staff of the Office of Graduate Studies. Assistant Dean Earickson took responsibility for a number of special projects and for dissertations and theses. Mary McCracken, as Office Manager, now has overall responsibility for admission, records, graduation, and financial aid. Specific personnel changes are listed below.

Staff employment:

Eileen M. Touhy, CS IV, 8/22/77
Gwendolyn VanDenHeuvel, CS IV (permanent part-time), 8/24/77
Kathleen Daly, CS V, 12/2/77
Linda Birge, CS IV, 6/8/78
Bobbe Willson, CS IV, /26/78
Trudy Baca, CS IV, 6/26/78

Staff promotions:

Eileen M. Touhy, CS IV to CS V, 11/7/77
Mary McCracken, CS IV to CS V, 8/29/77
Mary E. Kollander, CS VI to CS VII, 11/7/77

Staff separations:

Sharon M. Martinez, CS IV, 8/15/77
Laura Grace C.deBaca, CS IV, 8/16/77

Staff separations (continued)

Roberta Beth Cook, CS V, 9/16/77
 Eileen M. Touhy, CS V, 11/29/77
 Priscilla Gerth, CS IV, 5/16/78
 Kathleen Daly, CS V, 6/1/78
 Melody S. Groves, CS VI, 6/2/78

Notions developed during the writing of specifications for an integrated automated graduate records system were fed into a University-wide Task Force working on a general automated student record system.

For the convenience of students, the Office now is open during the noon hour.

II. Applications and admissions.

Table 1 gives a summary of applications for admission over the past six years. While there has been a sizable increase in the number of students seeking admission to graduate programs, a considerably smaller number of students were actually offered admission. While at first glance some may regret the resulting decrease in students, one can only commend the evidence of the care the departments have shown in making sure that they admit qualified students able to benefit from their programs. Table 2 shows by department the number of completed application and percentage of admission offers for each of the last two fall semesters. The most selective programs are those in Art, Psychology, Guidance and Counseling, and Anthropology, although it must be pointed out that a number of departments carry on extensive correspondence with students before they actually apply. This table gives some notion of where quick growth in graduate programs could be achieved if resources were available to the department to increase the size of the program and if the department felt justification in the market situation for such a growth. There are a number of cases where a decrease in applications has been

met by increase in percentage of admission offers, something which gives rise to some concern about the possibility of a lowering of admission standards.

III. Enrollment.

Enrollment of graduate students in the University (Tables 3, 4, and 5) continued to increase in the academic year 1977-78 and is the highest ever. The rate of increase (1.9%) continues however to decline. All of the increase has been in enrollment at the Master's level (up 6.8% again this year); enrollment at the doctoral level continues to decline (- 8.2%). There are some significant changes in enrollment in specific programs. In the College of Arts and Sciences, most programs have held steady, but there have been marked declines in enrollment in Economics, Latin American Studies, and Philosophy, and Chemistry has slipped back slightly from last year's gain. Enrollment in master's programs in Business and Administrative Sciences is up 21%. In the College of Education, there continued to be significant increases in Elementary Education (up 20% last year, up 6% this year), Health, Physical Education and Recreation (up 24% last year and 18.7% this year), and Special Education (up 22% last year, 10.3% this year); Educational Foundations is also up. Engineering programs are more or less stable and so are programs in Fine Arts. The Medical Science program has grown considerably (up 42.8%). The mushrooming of Public Administration continued (up 28%). At the doctoral level, there are marked decreases in enrollment in programs in American Studies, Economics, English, History, Mathematics and Statistics, and Romance Languages. Most of the College of Education programs have held fairly steady but there has been

a striking 70% increase in Health, Physical Education and Recreation. Enrollments in doctoral programs in Engineering, Fine Arts, and Medical Sciences are comparatively stable.

IV. Degrees awarded.

The number of master's degrees awarded has continued to grow, so that last year we awarded twice as many master's degrees as twelve years ago. The increases were spread over many departments, although the most marked increase is that in the School of Business and Administrative Sciences. There has however been a decrease in doctoral degrees awarded, so that we are back to level of nine years ago (see Tables 6,7; Figure 1). The ratio of degrees awarded to enrollment shown in Table 8 suggests an increased general efficiency at the master's level, but a slight slowing down at the doctoral level.

V. Minority student enrollment in the Graduate School.

Continuing effort has been made in the encouragement of the enrollment of minority students and other underrepresented groups in graduate programs. During the year, a proposal was developed for fellowships and institutional aid under Title IX of the Higher Education Act, the University supported the development of a highly competitive (but unfortunately ultimately unsuccessful) proposal for a National Science Foundation Minority Resource Center, and we joined a consortium of Western universities to share names of prospective minority graduate students. Table 9 records continuing progress in this field.

VI. Financial aid. (See Tables 10-14)

The number of graduate assistantships remained stable, a small increase in teaching and graduate assistantships being offset by a small decrease in research and project assistantships. Distribution of graduate assistantships continues to reflect undergraduate instructional needs rather than graduate program priorities.

VII. Faculty Senate Committee on Graduate Programs and Standards.

In accordance with action taken by the Faculty Senate, the Faculty Senate Committee on Graduate Programs and Standards took over the responsibilities previously carried out by an elected Graduate Committee. The members of the Senate Committee for the academic year 1977-8 were Professors Garo Z. Antreasian, Art; Ronald E. Blood, Educational Administration; Ellen H. Goldberg, Microbiology; Richard Holemon, Educational Administration; Arthur V. Houghton, Mechanical Engineering; Karen Remmer, Political Science; Steven Kramer, History; Robert Lenberg, Business and Administrative Sciences; John Rhodes, Psychology; Darrel R. Randall, Music; Donald Schlegel, Architecture and Planning; Daniel Slate, Business and Administrative Sciences; and Fred G. Sturm, Philosophy.

The Committee met twice during the summer and held seven formal meetings during the academic year (meetings lacked a quorum on some other occasions, and some issues were decided by telephone poll). The major actions of the Committee during the year were to discuss and recommend to the Senate further details on the proposed reorganization (subsequently approved by the Senate); approve a policy on joint degree programs with the School of Law (subsequently approved by the Senate); agree to recommend an award of honorary degrees; authorize the offering

of the Master's degree in Special Education at the Santa Fe Graduate Center; agree to proposals for off-campus instruction at the graduate level for the Departments of Elementary Education and Educational Foundations; revise the policy on the admission of students without degrees; agree to the abolition of the M.A.T. degree and to consequent name changes; agree to a new drop policy for graduate students, and recommend modifications in the proposed unit review policy.

VIII. Off-campus centers. (See Appendices A and B)

Active programs continued to be offered at the Centers for Graduate Studies at Los Alamos and Santa Fe, with continued growth in the number and range of courses offered and students served. During the year, the Legislature agreed to a system of funding that includes money for approved off-campus centers: as a result, it has been possible to increase next year's budget for the Santa Fe Center.

IX. Academic and Professional Activities.

During the year, the academic staff of the Office published three books and nine articles or chapters, presented eleven papers and lectures at learned or professional meetings (including one at each of the Council of Graduate Schools and Western Association of Graduate Schools), and read several manuscripts for journals and university presses. The Dean served as a member of the Council of Graduate Schools Task Force on Minority Students, was elected President of the international association of Teachers of English to Speakers of Other Languages, Secretary-Treasurer of the newly founded American Association for Applied Linguistics, and a member of the Board of Trustees of the Center for

Applied Linguistics; and appointed to serve on the Program Committee of the Linguistic Society of America, and the Linguistic Screening Committee of the Council for the International Exchange of Scholars.

X. The University and the law.

Nationally and locally, the law courts have become involved in a number of cases involving graduate students. While there has as yet been no suggestion that graduate Deans be required to have law degrees, there is good provision for on-the-job training. Two general lessons emerge: the courts respect the right of universities to use their own professional judgement in making decisions on academic matters, and universities must be careful to specify procedures and follow those that have been specified.

IX. Future trends and plans.

As the University moves into the mode of academic planning, it should become increasingly possible to plan rather than react. The past few years' experience suggest we have a number of basic problems to face. Essentially, our graduate program has grown without planning, largely in response to faculty initiatives and external stimulation, and often without adequate support. As a result, we probably have more doctoral programs than we can manage, unless we can develop efficient ways of running small but high quality programs. The attraction of doctoral programs has probably taken up some of the energy that might usefully have gone to increasing the size and relevance of some of our master's programs. We have been slow to move off campus, hesitant in dealing with the new kinds of students, tardy in recognizing the role of graduate programs in life-long education. But in each of these areas we do have

departments or schools who have made a start, and whose example and guidance will be essential.

This last statement points up a problem we now face. We are now ready to implement the Senate's plan of devolution: as we do this and increase the responsibility of College Graduate Committees for their programs, we need to make sure that there remains a strong central faculty forum for university-wide policy in post-baccalaureate programs.

The departmental self-study reports prepared for the NCA accreditation visit give a good picture of the strengths of our graduate programs and of their perceived needs. In the coming few months, it should be possible to analyse the general situation and develop a plan for continued growth and overall excellence.

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Table 1. Graduate School Admissions Processing

	1972-3	1973-4	1974-5	1975-6	1976-7	Percentage Change from 1975-6 to 1976-7	1977-8	Percentage Change from 1976-7 to 1977-8
Total Applications Distributed by Mail	10,929	10,252	10,720	9,836	8,778	-10.75%	8,197	-6.62%
New Applications Received	3,607	3,462	3,537	3,131	2,887	- 7.8%	3,261	+12.95%
New Admissions Offered	1,898	1,778	1,976	2,133	2,155	+ 1.03%	1,853	-14.01%
Accepted and Enrolled	1,183	1,248	1,274	1,575	1,389	-11.8%	1,212	-12.74%
Declined, No Response	482	300	302	410	395	- 3.66%	301	-23.80%
Accepted but No Show	233	230	200	146	370	+153.4%	340	-8.11%
Percentage of New Applicants Offered Admission	52.6%	51.4%	55.9%	68.1%	74.6%		56.8%	
Percentage of New Admissions Offered Who Accepted and Enrolled	58.3%	62.3%	70.2%	64.5%	73.8%		64.4 %	

Table 2. Applications and Offers of Admission for Fall Semesters, 1976 & 1977

<u>Graduate Unit</u>	<u>Completed Applications Fall, 1976</u>	<u>Completed Applications Fall, 1977</u>	<u>Percentage of Offers of Admission Fall, 1976</u>	<u>Percentage of Offers of Admission Fall, 1977</u>
<u>Architecture</u>	83	78	41 %	64 %
<u>Arts & Sciences</u>				
American Studies	23	9	60 %	55 %
Anthropology	146	134	38 %	27 %
Biology	85	76	46 %	43 %
Chemistry	65	50	68 %	80 %
Communicative Disorders	49	50	61 %	62 %
Comparative Literature	3	1	66 %	100 %
Economics	16	19	61 %	58 %
English	63	57	62 %	79 %
Geography	10	7	50 %	86 %
Geology	87	113	62 %	43 %
History	61	42	70 %	74 %
Ibero-American Studies	2	3	100 %	100 %
Latin American Studies	24	11	83 %	91 %
Linguistics	7	9	43 %	55 %
Mathematics & Statistics	24	16	75 %	75 %
Modern & Classical Languages	42	22	86 %	91 %
Philosophy	18	11	83 %	91 %
Physics & Astronomy	43	35	74 %	69 %
Political Science	20	20	55 %	50 %
Psychology	311	224	18 %	15 %
Sociology	19	20	57 %	60 %
Speech Communication	30	25	90 %	92 %
<u>Business & Administrative Sciences</u>	108	140	81 %	80 %
<u>College of Education</u>				
Art Education	12	7	92 %	100 %
Educational Administration	19	29	53 %	48 %
Educational Foundations	14	20	86 %	75 %
Elementary Education	97	73	91 %	93 %
Guidance & Counseling	132	125	27 %	20 %

Applications and Offers of Admission for Fall Semesters, 1976 & 77

<u>Graduate Unit</u>	<u>Completed Applications Fall, 1976</u>	<u>Completed Applications Fall, 1977</u>	<u>Percentage of Offers of Admission Fall, 1976</u>	<u>Percentage of Offers of Admission Fall, 1977</u>
<u>Health, Physical Educ. & Rec.</u>				
Health	6	10	66 %	90 %
Physical Education	33	34	73 %	85 %
Recreation	17	21	58 %	66 %
Secondary Education	83	50	93 %	94 %
Special Education	84	75	80 %	91 %
<u>College of Engineering</u>				
Chemical & Nuclear Engr	25	28	80 %	39 %
Civil Engr.	36	42	83 %	69 %
Computing & Information Sci	18	12	78 %	75 %
Electrical Engr	55	60	95 %	75 %
Mechanical Engr	23	20	78 %	80 %
<u>College of Fine Arts</u>				
Art	195	242	29 %	17 %
Music & Music Education	18	17	94 %	100 %
<u>Division of Public Administration</u>	71	84	91 %	98 %
<u>Medical Sciences Program</u>	43	41	49 %	34 %

Table 3. GRADUATE STUDENT ENROLLMENT

Fall Semester, 1968-69 to 1977-78

<u>Academic Year</u>	<u>Enrollment</u>	<u>Change from Previous Year</u>	<u>Percentage Change</u>
1968-69	2,665	+ 189	+ 7.6 %
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 %

Table 4. Masters Level Enrollment

Colleges, Schools, Division	1973-74			1974-75			1975-76			1976-77			1977-78		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>School of Architecture</u>	97	105	34	100	108	31	99	99	15	94	90	24	91	82	12
<u>College of Arts & Sciences</u>															
Anthropology	25	31	3	36	34	0	44	51	7	69	71	9	72	71	9
Biology	70	72	13	64	76	18	72	66	23	75	75	20	69	66	20
Chemistry	31	34	8	35	37	12	38	36	13	51	45	19	44	40	15
Communicative Dis	46	43	31	38	37	27	41	43	28	49	46	30	47	28	26
Comparative Lit	6	4	3	7	6	3	9	11	4	10	11	4	7	6	--
Economics	31	32	15	34	41	6	41	41	17	37	33	8	27	26	11
English	61	64	24	64	63	16	74	50	13	48	43	18	46	42	16
Geography	16	15	3	17	15	2	15	15	6	13	14	3	10	12	2
Geology	46	42	8	38	36	7	48	46	7	55	53	6	52	53	5
History	42	42	16	39	39	17	37	34	12	35	28	13	38	44	14
International Affairs	1	1	9	--	--	--	--	--	--	--	--	--	--	--	1
Language Sciences	--	--	--	--	--	--	--	--	--	6	5	2	17	14	6
Latin American St.	27	13	6	19	18	6	16	14	2	16	15	5	7	7	3
Mathematics & Stat	43	41	--	38	42	8	43	28	9	27	24	6	24	22	7
Modern Languages															
French	11	12	5	15	14	7	13	11	1	13	10	5	8	11	4
Portuguese	--	--	--	2	2	2	2	--	--	1	1	--	1	--	--
Spanish	29	25	10	33	39	19	34	26	14	33	31	15	32	29	11
Philosophy	21	27	10	37	40	11	39	34	10	33	32	7	26	24	2
Physics	27	24	3	25	23	8	21	18	7	28	27	4	25	24	6
Political Science	14	13	--	8	12	6	16	14	7	15	10	7	13	13	3
Psychology	15	38	3	34	36	19	14	37	13	43	37	8	44	35	5
Sociology	29	29	6	20	19	4	16	17	4	20	15	1	16	16	5
Speech Communication	16	21	15	33	36	20	34	35	17	34	33	16	29	35	17
<u>School of Business & Administrative Sciences</u>	170	189	106	176	186	86	238	234	105	242	262	148	294	319	147

Masters Level Enrollment

Colleges, Schools, Division	1973-74			1974-75			1975-76			1976-77			1977-78		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Education</u>															
Art Education	30	34	28	28	31	37	35	35	25	36	46	26	43	39	23
Educational Admin	41	45	50	44	71	75	78	93	78	87	77	81	89	73	69
Educational Fdns	20	27	21	28	37	16	33	40	17	33	40	24	41	36	19
Elementary Educ.	200	217	231	223	210	241	218	213	263	263	247	284	281	242	287
Guidance & Counsel	127	124	80	132	152	107	127	117	85	110	104	70	111	100	66
Health, PE & Rec.	67	67	41	65	70	41	69	69	47	86	100	80	107	102	68
Secondary Educ.	182	208	208	190	200	219	215	202	183	199	184	197	197	190	151
Special Educ.	116	137	104	138	137	107	150	158	108	183	188	153	202	185	163
<u>College of Engineering</u>															
Chemical Engr	3	1	--	--	2	3	7	9	4	11	10	4	13	16	4
Civil Engr	26	31	8	30	38	13	42	40	7	43	42	12	45	46	13
Computing & Inf. Sci	2	9	6	20	23	6	32	30	16	37	36	16	33	33	12
Electrical Engr	89	85	19	87	94	17	104	102	31	39	107	40	113	93	42
Mechanical Engr	21	18	5	19	21	7	24	22	7	25	24	11	29	26	8
Nuclear Engr	32	27	12	34	30	10	30	22	4	24	22	8	23	23	4
<u>College of Fine Arts</u>															
Art	96	84	28	93	98	20	80	67	13	85	85	26	96	81	13
Music	29	29	13	24	29	17	29	29	11	21	27	13	28	35	10
Music Education	8	4	6	3	4	4	3	4	3	4	--	2	2	1	5
Theatre Arts	--	--	--	--	--	--	--	--	--	--	--	--	9	9	3
<u>Division of Public Administration</u>															
Administration	66	57	17	71	79	50	110	139	72	149	164	108	191	216	120
<u>Medical Sciences Program</u>															
	12	16	3	21	18	11	10	13	7	21	22	9	30	36	13
	2041	2136	1211	2162	2303	1346	2400	2364	1315	2560	2536	1541	2722	2608	1447

Table 5. Doctoral Level Enrollment

Colleges, Schools, Division	1973-74			1974-75			1975-76			1976-77			1977-78		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Arts & Sciences</u>															
American Studies	49	45	16	52	62	20	57	60	18	72	67	23	48	38	16
Anthropology	30	23	2	24	23	2	21	30	5	26	21	4	22	29	4
Biology	22	22	7	24	18	10	27	32	4	27	23	4	22	26	4
Chemistry	25	21	10	19	22	5	30	26	5	21	23	7	19	20	7
Economics	13	15	5	15	15	3	24	21	4	17	13	1	7	11	2
English	37	33	6	22	29	6	30	38	9	35	30	4	25	22	5
Geology	27	20	4	20	20	3	16	15	3	13	13	--	10	9	2
History	70	64	12	56	59	14	61	59	8	53	57	12	45	54	12
Ibero-American St.	12	11	4	8	10	2	10	11	3	10	11	6	11	11	1
Mathematics & Stat.	28	31	7	29	27	8	27	32	8	25	20	4	14	19	5
Romance Languages	32	31	10	28	30	12	39	53	17	53	50	15	43	36	16
Philosophy	15	14	--	10	13	--	15	19	2	16	16	--	13	14	1
Physics	28	23	3	16	22	6	24	26	4	25	28	3	27	21	5
Political Science	8	11	1	6	6	6	--	6	8	1	8	8	6	6	--
Psychology	53	26	19	18	14	9	43	20	4	17	15	1	12	18	13
Sociology	--	--	--	--	--	--	--	--	--	--	--	--	7	5	4
<u>School of Business & Administrative Sciences</u>															
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<u>College of Education</u>															
Art Education	--	1	--	1	3	1	--	2	--	3	3	--	3	4	3
Educational Admin	80	94	67	80	79	55	76	70	24	52	52	14	47	62	32
Educational Fdns	43	47	19	42	47	20	53	61	26	55	46	22	52	50	22
Elementary Educ	52	60	21	52	68	32	54	64	31	52	49	29	48	35	23
Guidance & Counsel	46	50	27	39	42	20	36	48	16	40	39	21	39	40	22
Health, PE & Rec	34	33	11	27	31	12	27	32	17	26	31	24	44	37	27
Secondary Educ.	56	64	41	52	52	35	55	72	32	54	60	26	47	55	19
Special Education	20	29	23	26	24	15	30	36	13	32	36	11	33	33	24

Doctoral Level Enrollment

Colleges, Schools, Civision	1973-74			1974-75			1975-76			1976-77			1977-78		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Engineering</u>															
Chemical Engr	5	5	--	--	--	--	5	4	1	4	3	--	4	3	2
Civil Engr	11	11	2	9	9	--	10	11	1	11	14	1	15	12	1
Electrical Engr.	36	42	12	41	40	12	36	41	7	33	32	4	29	33	4
Mechanical Engr	16	16	1	16	15	4	13	14	3	8	6	--	7	9	1
Nuclear Engr	11	10	--	8	13	2	9	15	1	12	10	4	13	14	6
<u>College of Fine Arts</u>															
Art	17	16	--	15	18	7	21	31	6	31	29	2	25	36	2
Music	--	--	--	--	--	1	--	--	-	--	--	--	--	--	--
<u>Medical Sciences</u>															
<u>Program</u>	17	12	5	8	10	6	22	15	5	14	10	3	11	12	3
	893	880	335	753	811	321	877	966	278	845	815	244	748	753	290

Table 6. Master's Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program	1927 thru 1952	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
ARCHITECTURE																				6	7	13	10	23	20	21	18
ARTS & SCIENCES																											
Anthropology	39	4	4	2	4	3	2		4	2	2	1	7		2	7	9	6	14	17	9	13	13	4	8	19	14
Biology	83	3	6	4	4	4	11	4	5	8	12	7	12	6	11	14	18	21	17	18	18	15	17	19	11	23	15
Chemistry	18	2		3		1	1	2		1	1	2	6	1	6	3	9	2	4	1	10	9	6	7	3	4	10
Communic Dis																						3	19	20	11	21	18
Comparative Lit													1		1	1			3	1	2	2	1			2	2
Economics	31	1	2	2	3	1	1	3	4	2	2		1	3	1	6	7	8	5	3	7	11	6	3	3	6	5
English	113	5	6	2	5	6	6	7	4	6	5	6	6	17	21	23	17	23	12	20	14	19	10	10	12	4	14
Geography																					4	3	5	3	2	3	2
Geology	26	13	2	1	8	4	11	7	13	11	9	6	5	4	2	6	9	8	7	5	7	8	5	11	9	6	13
History	101	2	2	1	2	4	2	6	3	7	12	7	10	13	15	11	19	14	15	13	21	16	11	4	6	8	3
Inter Amer Aff	15	5	2	1		1	1	1	2		2										2	1					
Latin Amer St													3	3	1	3	4	16	7	14	9	10	8	10	8	7	9
Linguistics																										1	2
Math & Stat	33	1	1	2	3	4	1	2	2	6	3	4	5	8	11	3	22	13	10	17	14	19	6	3	7	7	4
Mbd & Class Lan																											
Latin	2																										
French	2													1	2	1	5	3	9	9	4	9	3		2	4	2
Spanish	91	4	4	4	7	6	5	3	6	3	4	2	5	9	12	10	16	6	15	8	12	7	7	4	6	3	1
Portuguese												2	1	3		3			3				2		1	1	

Table 6. Master's Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program	1927 thru 1952	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Arts & Sciences																											
Philosophy	2	1			1				2	3			1	2	3	4	4	3	7	4	5	5	2	4	3	5	11
Physics & Astr	16	4	4	1	4	4	3	8	4	12	14	13	10	6	8	10	7	12	9	11	6	9	11	2	2	3	6
Political Sci	46	3	4	2	1	3	2	2	2	3		2	4	2	2	3	3	8	5	6	5	2	3	4	1	5	6
Psychology	53	3	10	2	3	1	5	4	2	3	5	3	1	6	4	9	8	6	4	4	9	7	4	9	8	10	14
Sociology	13	1	2	3	1			1	1	1	1				1	3	1	1	3	2	4	4	5	4	6	1	3
Speech Comm	4	2	1	2	5	1	2	1	3	4	2	3	2	4	7	11	12	11	14	21	18	11	7	5	19	12	14
BUSINESS & ADMIN SCIENCES	5	2	1	1		2	4	4	1	3	5	4	9	9	8	28	30	20	25	29	27	28	52	52	45	47	76
Indust Adm												1	2	2		2	1	1	1				6		15	2	
COLLEGE OF EDUC																											
Art Education	17	5	6	5	6	4	4		4		1	1		4	4	8	3	7	8	9	18	20	23	9	14	22	19
Educ'l Admin	197	26	33	24	30	29	16	15	20	21	21	21	23	23	28	35	36	21	16	11	21	18	9	10	18	33	19
Educ'l Found																				5	9	5	7	7	6	13	13
Elementary Educ	16	12	9	7	8	7	5	18	12	6	9	9	9	13	21	23	33	39	56	31	60	59	76	77	87	76	87
General Educ	118	1			1		1		1																		
Guidance & Coun							7	19	9	12	23	19	26	26	26	43	42	61	55	65	83	71	85	59	80	59	56
Hlth, PE & Rec																											
Health Educ																				2	3	2	3	7	8	7	11
Physical Educ	12	6	2	7	2	1	6	8	6	4	8	11	10	8	12	17	18	19	12	18	12	14	13	13	8	11	22
Recreation												2			4	3	2	4	4	1	5	13	8	10	6	15	11
Secondary Educ	23	16	8	19	10	9	10	8	9	6	9	3	9	7	4	13	17	27	26	20	40	48	46	38	59	32	34
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	3

Table 6. Master's Degrees Awarded by Unit and Year

Departments by Colleges Div/Program	1927 thru 1951	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Sec. Ed.																											
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
Special Educ																	6	16	25	39	37	33	50	56	38	61	60
COLLEGE OF ENGR																											
Chemical Engr									1	4		1		1	4	2		1		6	3	2	2	1		2	5
Engr Aci Mtls															1	1	2		2	1			3	1			
Civil Engr	9	7	2	3		2	6	5	6	7	8	7	7	11	12	12	15	13	10	15	10	6	7	13	9	12	13
Comp & Info Sci																						3	3	3	4	10	
EECS	9	3	4	5	4	6	11	11	12	23	56	40	58	58	32	31	30	35	34	22	36	29	39	30	36	29	25
Mech Engr	9		1	2	2	4	7	10	11	15	27	28	23	26	35	26	15	25	18	20	19	8	3	4	9	7	8
Nuclear Engr											6	5	7	3	8	6	3	9	11	9	9	14	6	17	9	7	7
FINE ARTS																											
Art	19	5	10	5	7	6	9	4	4	6	5	9	7	6	6	14	13	24	15	11	15	14	18	24	20	18	29
Music	5	2	6	1	3				1	2	3	3	1	5	7	6	5	4	2	3	5	6	9	6	7	2	8
Music Educ					1	1	4	4	6	3	5	5	9	4	7	7	3	8	10	7	1	5		3	5		1
PUBLIC ADMIN.																			13	17	36	33	30	35	32	57	65
MEDICAL SCI																								4		1	2
Totals	1133	139	132	111	125	114	144	157	182	196	278	279	313	347	375	434	484	527	550	565	682	683	694	663	681	724	781

* Degree renamed Master of Management

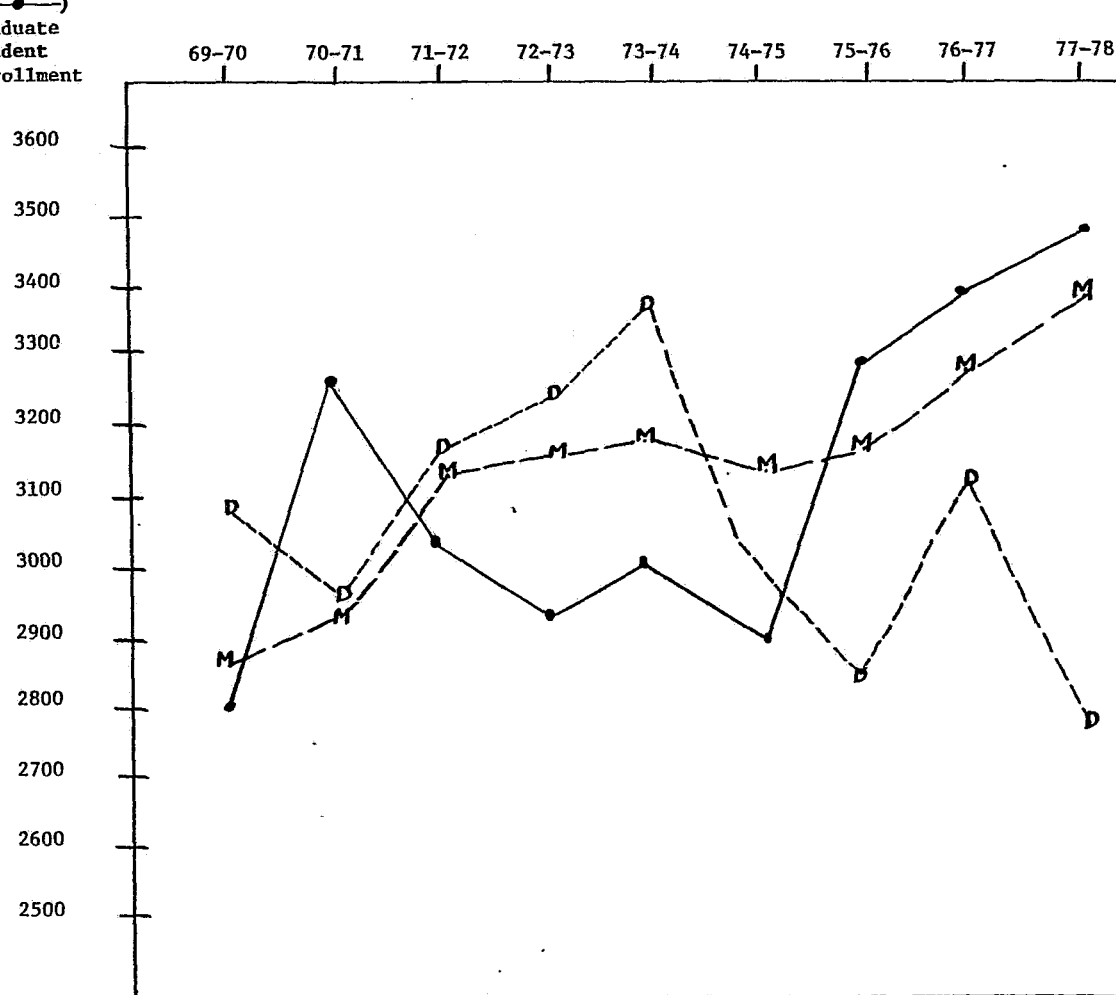
Table 7. Doctoral Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program or by Name of Degree	1947 thru 1952	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
<u>ARTS & SCIENCES</u>																											
American Stud.	2			1			3	2		1	1			1	1	2	1	3	4	1	6	5	10	4	12	6	9
Anthropology	7				2		2		1			3					1	3	4	2	1	2	3	3	5	4	2
Biology	1	1		3		2	2	1			1	1	1	2	1	1	1	5	2	4	3	10	8	5	4	5	2
Chemistry	4	5	2		3	8	4	6	2	4	7	3	3	4	2	6	6	3	6	6	6	4	5	2	8	5	9
Economics																				1	1	2	1	2	3	4	2
English	1	2		1	1	4	3	3	2	4	1	2	1	2	3	7	12	16	11	7	14	18	11	9	9	12	4
Geology											2	1	1	2	3	4	2	3	3	4	9	2	2	2	3	3	1
History	10	1	2	2	2	1				4	4	3	3	8	6	6	3	7	8	17	7	11	12	11	5	11	6
Ibero-Amer St											1			1	1	2	3	3		3	5	4	1	2			
Mathematics											1	2	2	4	1	5	6	7	10	7	9	9	5	5	5	6	6
Physics	3			2		1			1	2	3	2	2	4	2	4	8	2	2	5	1	6	4	7	1	3	8
Philosophy																			1	1	3	1		1	2		1
Political Sci																						2	3	2	1	1	1
Psychology											1			1		2	5	8	12	8	6	5	13	4	7	9	7
Romance Lang																			6	7	4	4	5	7	3	8	6
Spanish	5	1	2	1	2		2	1	1	2			1	1		3		2			4						

Table 7. Doctoral Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program of by Name of Degree	1947 thru 1952	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
<u>COLLEGE OF EDUC</u> <u>C & I</u>											2	1	1	5	5	4	9	18	25	22	26	32	30	20	12	19	14
Ed Admin									2	1	1			3	2	8	4	10	8	3	4	8	7	2	5	5	4
Ed Fdns																	2	2	4	5	6	3	9	7	7	5	8
Gen'l Educ										3		2															
PPS												1	2	4	5	2	4	5	14	9	22	6	17	15	8	10	5
<u>COLLEGE OF ENGR</u> <u>Chemical Engr</u>														1					1	1	1	1	2	1		1	
Civil Engr															1		2	3	3	5	4	3	1	3	1		2
EECS										2	4	5	4	3	10	7	10	3	5	7	7	7	6	9	3	5	4
Mech Engr														3	3	2	5	2	1	2	4	3	1	4	3	4	1
Nucl Engr															2	1	1	1	3	4	2	1	2		2	2	
<u>COLLEGE OF</u> <u>EINE ARTS</u> <u>Art History</u>																			2			1	2	1		2	
<u>MEDICAL SCI</u>																		1	3	1			3	2	1	6	5
Totals	33	10	6	10	10	16	16	13	9	23	28	27	21	48	48	65	84	106	141	129	149	153	166	129	112	140	107
MASTER OF FINE ARTS															1	2	1	2	1	4	3	2	4	6	4	4	1

(—●—)
Graduate
Student
Enrollment



(—M—) (---D---)
Masters
Degrees
Doctoral
Degrees

Figure 1.
Master's and Doctoral Degree Production and Graduate Student

Table 8. Ratio of Degrees Awarded to Enrollment

	MASTERS LEVEL			DOCTORAL LEVEL			MASTERS LEVEL			DOCTORAL LEVEL		
	Enrolled 1976-77	Awarded 1977	Ratio	Enrolled 1976-77	Awarded 1977	Ratio	Enrolled 1977-78	Awarded 1978	Ratio	Enrolled 1977-78	Awarded 1978	Ratio
Architecture	92	21	.288	--	-	----	87	12	.138	--	-	----
American Studies				70	6	.085				43	9	.209
Anthropology	70	19	.271	24	4	.166	72	14	.194	26	2	.077
Biology	75	23	.306	25	5	.2	68	15	.220	24	2	.083
Chemistry	48	4	.083	33	5	.227	42	10	.238	20	9	.45
Communicative Dis	48	24	.437	--	-	----	38	18	.474	--	-	----
Comparative Lit	11	2	.181	--	-	----	7	2	.286	--	-	----
Economics	35	6	.171	15	4	.266	27	5	.185	8	2	.250
English	46	4	.086	33	12	.363	44	14	.318	24	4	.167
Geography	14	3	.214	--	-	----	11	2	.181	--	-	----
Geology	54	6	.111	13	3	.23	53	13	.245	19	1	.053
History	32	8	.25	55	11	.20	41	3	.073	45	6	.133
Ibero American St	--	--	----	11	--	----	--	-	----	11	-	----
Latin American St	16	7	.437	--	--	----	11	9	.818	--	-	----
Linguistics	6	1	.166	--	--	----	7	2	.286	--	-	----
Mathematics & Stat	26	7	.269	23	6	.26	23	4	.174	17	6	.353
Modern Lang/Rom Lang	45	8	.177	54	8	.148	41	3	.073	40	6	.15
Philosophy	33	5	.151	16	--	----	25	11	.44	14	1	.071
Physics & Astr	28	3	.107	27	3	.111	25	6	.24	24	8	.333
Political Science	13	5	.384	8	1	.125	13	6	.462	6	1	.167
Psychology	35	10	.285	16	9	.562	40	14	.35	15	7	.467
Sociology	18	1	.055	--	--	----	16	3	.189	6	-	----
Speech CommunC	34	12	.352	--	--	----	32	14	.438	--	-	----
SBAS	252	49	.194	--	--	----	307	76	.248	--	-	----
Art Educ	41	22	.536	3)	--	----	45	19	.422	4)	-	----
Elem Educ	255	76	.298	56)	--	----	262	87	.332	47)	-	----
HPER	93	33	.354	29)	--	----	105	44	.419	41)	-	----
Secondary Educ	191	63	.329	57)	--	----	194	48	.247	51)	-	----
C&I	---	---	----	145	19	.131	---	---	----	143	14	.098

Table 8. Ratio of Degrees Awarded to Enrollment

	MASTERS LEVEL			DOCTORAL LEVEL			MASTERS LEVEL			DOCTORAL LEVEL		
	Enrolled 1976-77	Awarded 1977	Ratio	Enrolled 1976-77	Awarded 1977	Ratio	Enrolled 1977-78	Awarded 1978	Ratio	Enrolled 1977-78	Awarded 1977	Ratio
Educ'l Admin	82	33	.402	52	5	.096	81	19	.235	55	4	.073
Educ'l Foundns	37	13	.351	51	5	.098	39	13	.333	51	8	.157
Guidance & Couns	107	59	.551	40)	-	----	106	56	.529	40)	-	----
Special Educ	186	61	.327	34)	-	----	194	60	.309	33)	-	----
PPS	---	--	----	74	10	.135	---	--	----	73	5	.068
Chem Engr	11	2	.181	4	1	.25	15	5	.333	4	-	----
Civil Engr	43	12	.279	13	-	----	46	13	.282	14	13	.928
Computing & Inf Sci	37	4	.108	--	-	----	33	10	.303	1	-	1.00
EECS	102	29	.284	33	5	.151	103	25	.243	31	4	.129
Mechanical Engr	25	7	.28	7	4	.571	28	8	.286	8	1	.125
Nuclear Engr	23	7	.304	11	2	.181	23	7	.304	--	-	----
Art	85	18	.211	30	6	.20	89	29	.326	31	-	----
Music	24	2	.083	--	-	----	32	8	.25	--	-	----
Music Educ	4	--	----	--	-	----	2	1	0.5	--	-	----
Public Admin	156	57	.365	--	-	----	204	65	.319	--	-	----
Medical Sciences	22	1	.045	12	6	.5	33	2	.061	12	5	.416
OVERALL	2548	724	.284	830	140	.168	2664	781	.293	765	107	.140

Enrollment figures are averages of Fall and Spring Semesters

Table 9. MINORITY GROUP ENROLLMENTS- FALL, 1977

	BLACK AMERICANS		HISPANICS		AMERICAN INDIANS		TOTAL MINORITIES		WOMEN		TOTAL STUDENTS
	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled
GRADUATE UNITS											
SCHOOL OF ARCHITECTURE	1 (1)	1.1 (0.8)	4 (2)	4.4 (1.6)	0 (2)	- (1.6)	5 (5)	5.5 (4.0)	30 (36)	32.9 (28.6)	91 (126)
ARTS & SCIENCES	6 (6)	0.6 (0.5)	99 (101)	10.1 (8.5)	8 (11)	0.8 (0.9)	113 (118)	11.5 (9.9)	347 (446)	35.2 (37.4)	985 (1192)
American Studies	1 (2)	2.1 (2.3)	4 (8)	8.3 (9.1)	1 (3)	2.1 (3.4)	6 (13)	12.5 (14.8)	21 (38)	43.8 (43.2)	48 (88)
Anthropology	0 (0)	- (-)	3 (5)	3.2 (4.8)	0 (0)	- (-)	3 (5)	3.2 (4.8)	50 (53)	53.2 (50.5)	94 (105)
Biology	0 (0)	- (-)	6 (5)	6.6 (4.7)	0 (0)	- (-)	6 (5)	6.6 (4.7)	33 (43)	36.3 (40.2)	91 (107)
Chemistry	0 (0)	- (-)	2 (2)	3.2 (2.7)	1 (0)	1.6 (-)	3 (2)	4.8 (2.7)	11 (17)	17.5 (23.3)	63 (73)
Communicative Disorders	0 (0)	- (-)	3 (1)	6.4 (2.0)	0 (0)	- (-)	3 (1)	6.4 (2.0)	30 (43)	63.8 (87.8)	47 (49)
Comparative Literature	0 (0)	- (-)	2 (1)	28.6 (10.0)	0 (0)	- (-)	2 (1)	28.6 (10.0)	2 (5)	28.6 (50.0)	7 (10)
Economics	0 (0)	- (-)	1 (3)	2.9 (6.1)	1 (1)	2.9 (2.0)	2 (4)	5.9 (8.2)	7 (9)	20.6 (18.4)	34 (49)
English	0 (0)	- (-)	4 (5)	5.6 (6.3)	0 (1)	- (1.3)	4 (6)	5.6 (7.5)	21 (33)	29.6 (41.3)	71 (80)
Geography	0 (0)	- (-)	1 (0)	10.0 (-)	0 (0)	- (-)	1 (0)	10.0 (-)	3 (4)	30.0 (30.8)	10 (13)
Geology	0 (0)	- (-)	1 (0)	1.6 (-)	0 (1)	- (1.3)	1 (1)	1.6 (1.3)	11 (14)	17.7 (18.7)	62 (75)
History	0 (0)	- (-)	15 (9)	18.1 (8.8)	1 (2)	1.2 (2.0)	16 (11)	19.3 (10.8)	21 (29)	25.3 (28.4)	83 (102)
Ibero-American Studies	0 (0)	- (-)	2 (0)	18.2 (-)	0 (0)	- (-)	2 (0)	18.2 (-)	5 (6)	45.5 (50.0)	11 (12)
Latin-American Studies	0 (0)	- (-)	3 (2)	17.6 (8.7)	0 (0)	- (-)	3 (2)	17.6 (8.7)	8 (7)	47.1 (30.4)	17 (23)
Linguistics	0 (0)	- (-)	0 (1)	- (12.5)	1 (1)	14.3 (12.5)	1 (2)	14.3 (25.0)	1 (6)	14.3 (75.0)	7 (8)
Mathematics and											
Statistics	2 (1)	5.3 (2.0)	5 (6)	13.2 (12.0)	0 (0)	- (-)	7 (7)	18.4 (14.0)	10 (9)	26.3 (18.0)	38 (50)
Modern Languages	0 (0)	- (-)	30 (31)	35.7 (31.6)	0 (0)	- (-)	30 (31)	35.7 (31.6)	41 (61)	48.8 (62.2)	84 (98)
Philosophy	1 (0)	2.6 (-)	4 (4)	10.3 (7.5)	0 (0)	- (-)	5 (4)	12.8 (7.5)	9 (8)	23.1 (15.1)	39 (53)
Physics	1 (1)	1.9 (1.9)	0 (1)	- (1.9)	0 (0)	- (-)	1 (2)	1.9 (3.7)	5 (6)	9.6 (11.1)	52 (54)
Political Science	0 (1)	- (4.2)	4 (3)	21.1 (12.5)	0 (0)	- (-)	4 (4)	21.1 (16.7)	4 (9)	21.1 (37.5)	19 (24)
Psychology	0 (0)	- (-)	5 (10)	8.9 (15.9)	1 (2)	1.8 (3.2)	6 (12)	10.7 (19.0)	19 (22)	33.9 (34.9)	56 (63)
Sociology	0 (0)	- (-)	2 (2)	8.7 (9.1)	1 (0)	4.3 (-)	3 (2)	13.0 (9.1)	11 (9)	47.8 (40.9)	23 (22)
Speech Communication	1 (1)	3.4 (2.9)	2 (2)	6.9 (5.9)	1 (0)	3.4 (-)	4 (3)	13.8 (8.8)	24 (15)	82.8 (44.1)	29 (34)
SCHOOL OF BUSINESS & ADMINISTRATIVE SCIENCES	2 (1)	0.7 (0.4)	24 (9)	8.2 (3.6)	2 (2)	0.7 (0.8)	28 (12)	9.5 (4.8)	77 (57)	26.2 (23.0)	294 (248)
COLLEGE OF EDUCATION	17 (25)	1.2 (1.7)	276 (277)	19.9 (18.9)	51 (52)	3.7 (3.6)	344 (354)	24.9 (24.2)	802 (917)	51.9 (62.6)	1384 (1464)
Art Education	0 (0)	- (-)	4 (3)	8.7 (7.5)	1 (0)	2.2 (-)	5 (3)	10.9 (7.5)	33 (32)	71.7 (80.0)	46 (40)
Educational Administration	0 (4)	- (1.9)	37 (61)	27.2 (28.2)	26 (31)	19.1 (14.4)	63 (96)	46.3 (44.4)	47 (73)	34.6 (33.8)	136 (216)
Educational Foundations	0 (2)	- (2.2)	10 (11)	10.8 (12.4)	4 (3)	4.3 (3.4)	14 (16)	15.1 (18.0)	49 (45)	52.7 (50.6)	93 (89)

MINORITY GROUP ENROLLMENTS- FALL, 1977

	BLACK AMERICANS		HISPANICS		AMERICAN INDIANS		TOTAL MINORITIES		WOMEN		TOTAL STUDENTS
	No.	% of	No.	% of	No.	% of	No.	% of	No.	% of	No.
GRADUATE UNITS	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled
Elementary Education	7 (6)	2.1 (1.9)	83 (74)	25.2 (23.3)	6 (4)	1.8 (1.3)	96 (84)	29.2 (26.5)	233 (261)	70.8 (82.3)	329 (317)
Guidance & Counseling	2 (0)	1.3 (-)	38 (31)	25.3 (21.5)	5 (3)	3.3 (2.1)	45 (34)	30.0 (23.6)	91 (90)	60.6 (62.5)	150 (144)
Health, Physical Education & Recreation	2 (2)	1.3 (1.4)	23 (17)	15.2 (11.6)	1 (3)	0.7 (2.1)	26 (22)	17.2 (15.1)	65 (69)	43.1 (47.3)	151 (146)
Secondary Education	1 (6)	0.5 (3.1)	35 (22)	16.8 (11.3)	2 (1)	1.0 (0.5)	38 (29)	18.3 (14.9)	102 (101)	49.0 (52.1)	208 (194)
Business Education	0 (3)	- (4.2)	3 (19)	30.0 (26.8)	0 (2)	- (2.8)	3 (24)	30.0 (33.8)	9 (59)	90.0 (83.1)	10 (71)
Home Economics	0 (0)	- (-)	2 (1)	12.5 (6.7)	1 (1)	12.5 (6.7)	3 (2)	18.8 (13.3)	13 (15)	81.3 (100.0)	16 (15)
Industrial Education	0 (0)	- (-)	1 (2)	10.0 (28.6)	0 (0)	- (-)	1 (2)	10.0 (28.6)	1 (5)	10.0 (71.4)	10 (7)
Special Education	5 (2)	2.1 (0.9)	40 (36)	17.0 (16.0)	5 (4)	2.1 (1.8)	50 (42)	21.3 (18.7)	159 (167)	67.7 (74.2)	235 (225)
COLLEGE OF ENGINEERING	3 (3)	0.3 (0.9)	24 (29)	7.4 (9.0)	1 (0)	0.3 (-)	28 (32)	8.6 (10.0)	25 (22)	7.7 (6.9)	324 (321)
Chemical/Nuclear	0 (0)	- (-)	2 (1)	3.8 (1.7)	0 (0)	- (-)	2 (1)	3.8 (1.7)	2 (1)	3.8 (1.7)	53 (59)
Civil	1 (1)	1.7 (1.6)	11 (10)	18.3 (15.6)	0 (0)	- (-)	12 (11)	20.0 (17.2)	6 (2)	10.0 (3.1)	60 (64)
Computing & Information Science	0 (0)	- (-)	0 (2)	- (5.1)	0 (0)	- (-)	0 (2)	- (15.1)	11 (14)	33.3 (35.9)	33 (39)
Electrical	2 (2)	1.4 (1.6)	10 (14)	7.0 (11.0)	1 (0)	0.7 (-)	13 (16)	9.2 (12.6)	6 (5)	4.2 (3.9)	142 (127)
Mechanical	0 (0)	- (-)	1 (2)	2.8 (6.3)	0 (0)	- (-)	1 (2)	2.8 (6.3)	0 (0)	- (-)	36 (32)
COLLEGE OF FINE ARTS	1 (0)	0.6 (-)	9 (6)	5.6 (4.4)	0 (0)	- (-)	10 (6)	6.3 (4.4)	76 (73)	47.5 (54.5)	160 (134)
Art	1 (0)	0.8 (-)	8 (6)	6.6 (5.5)	0 (0)	- (-)	9 (6)	7.4 (5.5)	60 (59)	49.6 (53.6)	121 (110)
Music/Music Education	0 (0)	- (-)	1 (0)	3.3 (-)	0 (0)	- (-)	1 (0)	3.3 (-)	13 (14)	43.3 (58.3)	30 (24)
Theatre Arts	0 (NA)	- (NA)	0 (NA)	- (NA)	0 (NA)	- (NA)	0 (NA)	- (NA)	3 (NA)	33.3 (NA)	9 (NA)
Medical Sciences	0 (0)	- (-)	3 (2)	7.3 (5.3)	0 (0)	- (-)	3 (2)	7.3 (5.3)	23 (20)	56.1 (52.6)	41 (38)
Division of Public Administration	13 (8)	6.8 (4.6)	45 (56)	23.6 (32.2)	8 (7)	4.2 (4.0)	66 (71)	34.6 (40.8)	73 (61)	38.2 (35.1)	191 (174)
GRAND TOTAL	43 (44)	1.2 (1.2)	484 (482)	13.9 (13.0)	70 (74)	2.0 (2.0)	597 (600)	17.2 (16.2)	1453 (1632)	41.9 (44.1)	3470 (3697)

Figures in parentheses = Fall, 1976

GRADUATE UNITS	BLACK AMERICANS			CHICANOS			NATIVE AMERICANS			TOTAL MINORITIES			WOMEN			STUDENTS	
	No. on Aid	% of All on Aid	% of Blacks	No. on Aid	% of all on Aid	% of Chic.	No. on Aid	% of All on Aid	% of N. Ams.	No. on Aid	% of All on Aid	% of Mins.	No. on Aid	% of All on Aid	% of Women	No. on Aid	% of total Enrolled
SCHOOL OF ARCHITECTURE	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
ARTS & SCIENCES	4	7.2	36.4	32	17.8	69.6	2	1.1	66.7	38	21.1	63.3	142	78.9	59.7	180	5.2
American Studies	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
Anthropology	0	0	0	0	0	0	0	0	0	0	0	0	9	100	100	9	.26
Biology	0	0	0	1	5.6	2.2	0	0	0	1	5.6	100	17	94.4	7.2	18	.52
Chemistry	3	20.0	27.3	0	0	0	0	0	0	3	20.0	100	12	80.0	5.0	15	.43
Communicative Disorders	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
Comparative Literature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Economics	0	0	0	0	0	0	0	0	0	0	0	0	7	100	2.9	7	.20
English	0	0	0	2	11.1	4.3	0	0	0	2	11.1	100	16	88.9	6.7	18	.52
Geography	0	0	0	1	100	2.2	0	0	0	1	100	1.7	0	0	0	1	.03
Geology	0	0	0	0	0	0	0	0	0	0	0	0	10	100	4.2	10	.29
History	0	0	0	3	30.0	6.5	0	0	0	3	30.0	5.0	7	70	16.7	10	.29
Ibero-American Studies	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
Latin-American Studies	0	0	0	0	0	0	1	100	33.3	1	100	1.7	0	0	0	1	.03
Linguistics	0	0	0	0	0	0	0	0	0	0	0	0	3	100	1.3	3	.09
Mathematics & Statistics	1	8.3	9.1	1	8.3	2.2	1	8.3	33.3	3	25	5.0	9	75.0	3.8	12	.36
Modern Languages	0	0	0	20	42.6	43.5	0	0	0	20	42.6	43.5	27	57.4	11.3	47	1.4
Philosophy	0	0	0	1	100	2.2	0	0	0	1	100	1.7	0	0	0	1	.03
Physics	0	0	0	0	0	0	0	0	0	0	0	0	6	100	2.5	6	.17
Political Science	0	0	0	1	25.0	2.2	0	0	0	1	25.0	1.7	3	75.0	1.3	4	.12
Psychology	0	0	0	1	16.7	2.2	0	0	0	1	16.7	1.7	5	83.3	2.1	6	.17
Sociology	0	0	0	1	20.0	2.2	0	0	0	1	20.0	1.7	4	80.0	1.7	5	.14
Speech Communications	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
SCHOOL OF BUSINESS & ADMINISTRATIVE SCIENCES	1	12.5	9.1	2	25.0	4.3	0	0	0	3	37.5	5.0	5	62.5	2.1	8	.23
COLLEGE OF EDUCATION	2	4.0	18.2	8	16.0	17.4	0	0	0	10	20.0	16.7	40	80.0	16.8	50	1.4
Art Education	1	33.3	9.1	0	0	0	0	0	0	1	33.3	1.7	2	66.7	.84	3	.09
Educational Administration	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
Educational Foundations	1	25.0	9.1	1	25.0	2.2	0	0	0	2	50.0	3.3	2	50.0	.84	4	.12
Elementary Education	0	0	0	3	17.6	6.5	0	0	0	3	17.6	5.0	14	82.4	5.9	17	.49
Guidance & Counseling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health, Physical Education & Recreation	0	0	0	3	16.7	6.5	0	0	0	3	16.7	5.0	15	83.3	6.3	18	.52
Secondary Education	0	0	0	1	20.0	2.2	0	0	0	1	20.0	1.7	4	80.0	1.7	5	.14
Business Education	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Home Economics	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
Special Education	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03

Financial Aid as Distributed to Specified Minority Groups - Fall 1977

GRADUATE UNITS	BLACK AMERICANS			CHICANOS			NATIVE AMERICANS			TOTAL MINORITIES			WOMEN			TOTAL STUDENTS	
	No. on Aid	% of All on Aid	% of All Blacks	No. on Aid	% of All on Aid	% of All Chic.	No. on Aid	% of All on Aid	% of All N. Ams.	No. on Aid	% of All on Aid	% of All Mins.	No. on Aid	% of All on Aid	% of All Women	No. on Aid	% of Aid of Total Enrolled
COLLEGE OF ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	3	100	1.3	3	.09
Chemical/Nuclear Eng.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Civil Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Computing & Information S.	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
Electrical Engineering	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1.	.03
Mechanical Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLLEGE OF FINE ARTS	1	5.0	9.1	2	10.0	4.3	1	5.0	33.3	4	20.0	6.7	16	80.0	6.7	20	.58
Art	1	5.0	9.1	2	10.0	4.3	1	5.0	33.3	4	20.0	6.7	16	80.0	6.7	20	.58
Music/Music Education	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEDICAL SCIENCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVISION OF PUBLIC ADMINISTRATION	1	11.1	9.1	0	0	0	0	0	0	1	11.1	1.7	8	88.9	3.4	9	.26
OTHER																	
Theatre Arts	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
Women's Studies	0	0	0	0	0	0	0	0	0	0	0	0	2	100	.84	2	.06
Afro-American Studies	3	100	27.3	0	0	0	0	0	0	3	100	5.0	0	0	0	3	.09
All Indian Pueblo Council	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
Chicano Studies	0	0	0	2	50.0	4.3	0	0	0	2	50.0	3.3	2	50.0	.84	4	.12
English Tutorial	0	0	0	0	0	0	0	0	0	0	0	0	7	100	2.9	7	.20
Microbiology	0	0	0	0	0	0	0	0	0	0	0	0	3	100	1.3	3	.09
Medicine	0	0	0	0	0	0	0	0	0	0	0	0	4	100	1.7	4	.12
Minority Bio. Sci.	0	0	0	1	50.0	2.2	0	0	0	1	50.0	1.7	1	50.0	.42	2	.06
Bur. of Bus. & Econ. Research	0	0	0	1	50.0	2.2	0	0	0	1	50.0	1.7	1	50.0	.42	2	.06
Inst. of Meteoritics	0	0	0	0	0	0	0	0	0	0	0	0	1	100	.42	1	.03
GRAND TOTAL	11	39.4	100	46	12.8	100	3	.84	100	60	16.8	100	238	66.5	100	358	10.3

Table 11. Graduate and Other Assistantships, 1975-78

	<u>Fall</u> <u>1975</u>	<u>Spring</u> <u>1976</u>	<u>Summer</u> <u>1976</u>	<u>Fall</u> <u>1976</u>	<u>Spring</u> <u>1977</u>	<u>Summer</u> <u>1977</u>	<u>Fall</u> <u>1977</u>	<u>Spring</u> <u>1978</u>	<u>Summer</u> <u>1978</u>
Graduate Assistants - Regular	108	102	35	141	141	37	141	144	22
Graduate Assistants - Special	32	36	0	48	56	0	22	34	0
Teaching Assistants - Regular	154	147	103	234	240	109	286	285	109
Teaching Assistants - Special	57	72	0	71	69	0	52	55	0
Teaching Associates	10	30	2	28	25	2	25	5	3
TOTAL	<u>361</u>	<u>387</u>	<u>140</u>	<u>522</u>	<u>531</u>	<u>148</u>	<u>526</u>	<u>523</u>	<u>134</u>
Research Assistants and Project Assistants	<u>188</u>	<u>178</u>	<u>191</u>	<u>177</u>	<u>188</u>	<u>197</u>	<u>174</u>	<u>173</u>	<u>52</u>
GRAND TOTAL	<u>549</u>	<u>565</u>	<u>331</u>	<u>699</u>	<u>719</u>	<u>345</u>	<u>700</u>	<u>696</u>	<u>186</u>

Table 12. Graduate Assistants, Teaching Assistants and Teaching Associates, 1977-78

Colleges, Schools, Division	Fall 1977	Spring 1978	Summer 1978
<u>School of Architecture</u>	11	8	0
<u>College of Arts & Sciences</u>			
American Studies	1	2	0
Anthropology	11	13	1
Biology	39	40	9
Chemistry	35	37	14
Communicative Disorders	2	2	1
Economics	8	7	2
Geography	2	2	1
Geology	12	15	2
History	19	21	0
Ibero-American Studies	2	0	0
English	45	45	8
Latin-American Studies	0	0	0
Linguistics	4	4	0
Mathematics & Statistics	26	26	14
Modern & Classical Languages	41	39	22
Philosophy	5	5	1
Physics	22	23	0
Political Science	5	6	2
Psychology	17	19	2
Sociology	4	4	0
Speech Communication	5	6	4
<u>TOTALS</u>	<u>305</u>	<u>316</u>	<u>83</u>
<u>School of Business & Administrative Sci.</u>	27	29	0
<u>College of Education</u>			
Art Education	5	5	3
Educational Administration	1	2	1
Educational Foundations	8	7	5
Elementary Education	14	16	7
Guidance & Counseling	4	5	2
Health, Physical Education & Recreation	34	28	11
Home Economics	1	2	0
Secondary Education	5	9	0
Special Education	3	3	0
<u>TOTALS</u>	<u>75</u>	<u>77</u>	<u>29</u>
<u>College of Engineering</u>			
Chemical & Nuclear Engineering	6	5	1
Civil Engineering	7	7	0
Computing & Information Sciences	6	6	4
Electrical Engineering & Computer Sci.	13	14	1
Mechanical Engineering	6	5	0
<u>TOTALS</u>	<u>38</u>	<u>37</u>	<u>6</u>
<u>College of Fine Arts</u>			
Art	37	25	8
Music & Music Education	4	4	1
Theatre Arts	5	5	0
<u>TOTALS</u>	<u>46</u>	<u>34</u>	<u>9</u>
<u>Division of Public Administration</u>	4	3	3

Graduate Assistants, Teaching Assistants and Teaching Associates, 1977-78

Colleges, Schools, Divisions	Fall 1977	Spring 1978	Summer 1978
<u>Other</u>			
Afro-American Studies	4	2	0
Chicano Studies	2	0	0
English Tutorial Program	11	13	2
Native American Studies	1	0	1
New Mexico Research & Study	0	0	1
Undergraduate Seminar Program	0	0	0
Women's Studies	2	4	0
<u>TOTALS</u>	<u>20</u>	<u>19</u>	<u>4</u>
<u>GRAND TOTALS</u>	<u>526</u>	<u>523</u>	<u>134</u>

Table 13. Research Assistants and Project Assistants, 1977-78

Colleges, Schools, Divisions	Fall 1977		Spring 1978		Summer 1978	
	RA's	PA's	RA's	PA's	RA's	PA's
<u>School of Architecture</u>	2	1	3	0	0	0
<u>College of Arts & Sciences</u>						
American Studies	0	0	0	0	0	0
Anthropology	0	1	1	3	1	0
Contract Archaeology	0	2	1	0	0	0
Maxwell Museum	0	0	0	0	0	0
Biology	7	7	7	0	1	7
Chemistry	9	5	13	0	7	0
Communicative Disorders	0	0	0	0	0	0
Comparitive Literature	0	0	0	0	0	0
Economics	0	12	11	0	0	6
English	0	0	0	0	0	0
Geography	1	0	0	0	0	0
Geology	24	6	26	0	3	0
Institute of Meteoritics	3	2	6	0	1	0
History	0	0	0	0	0	0
Historical Review	0	0	0	0	0	0
Ibero-American Studies	0	0	0	0	0	0
International Affairs	0	0	0	0	0	0
Latin-American Studies	0	1	0	0	0	0
Linguistics	0	1	2	2	0	0
Mathematics & Statistics	0	4	4	0	0	0
Modern & Classical Languages	0	0	0	0	0	0
Philosophy	0	0	0	0	0	0
Physics & Astronomy	5	2	6	0	3	2
Political Science	1	2	4	1	0	0
Psychology	5	0	4	1	2	0
Sociology	1	0	2	0	0	0
Speech Communications	0	0	0	0	0	0
<u>TOTALS</u>	<u>53</u>	<u>46</u>	<u>87</u>	<u>7</u>	<u>18</u>	<u>15</u>
<u>Anderson School of Business</u>	0	0	0	0	0	0
<u>College of Education</u>						
Art Education	0	0	0	0	0	0
Educational Administration	0	0	0	0	0	0
Educational Foundations	1	0	0	0	0	0
Elementary Education	0	0	0	0	0	0
Guidance & Counseling	0	0	0	0	0	0
Health, Physical Ed., & Recreation	0	0	0	0	0	0
Home Economics	0	0	0	0	0	0
Secondary Education	0	0	0	0	0	0
Special Education	0	0	0	0	0	0
Manzanita Center	0	1	0	0	0	2
<u>College of Engineering</u>	1	1	0	0	0	2
Chemical Engineering	0	0	1	0	0	0
Civil Engineering	0	0	0	0	0	0
Computing & Information Sciences	0	0	0	0	0	0
Electrical Engr. & Computer Science	0	0	1	0	0	0
Mechanical Engineering	0	0	0	0	0	0

Research Assistants and Project Assistants, 1977-78

Colleges, Schools, Divisions	Fall 1977		Spring 1978		Summer 1978	
	RA's	PA's	RA's	PA's	RA's	PA's
<u>College of Engineering, continued</u>						
Bureau of Engineering Research	15	10	29	1	8	1
Civil Engineering Research Facility	0	4	2	1	0	2
TOTALS	15	14	33	2	8	3
<u>College of Fine Arts</u>	0	0	0	0	0	0
<u>Medical Sciences</u>						
Anatomy	0	1	0	0	0	0
Biochemistry	1	4	6	0	1	1
Medicine	1	6	3	1	1	0
Microbiology	0	3	1	0	0	0
Minority Biomedical Science Program	0	2	1	0	0	0
Pathology	2	0	2	0	0	0
Pharmacology	0	0	0	0	0	0
Physiology	0	0	0	0	0	0
Psychiatry	0	0	0	0	0	0
SOM Student Affairs	0	0	0	0	0	0
TOTALS	4	16	13	1	2	1
<u>Division of Public Administration</u>	2	8	7	8	0	0
<u>Other</u>						
Albuquerque Urban Conservatory	0	1	1	1	0	1
English Tutorial Program	0	1	1	0	0	0
Research Administration	0	0	0	0	0	0
School of Law	1	2	4	0	1	0
Institute of Public Law	1	0	1	0	1	0
Bureau of Business & Economic Res.	0	2	2	0	0	0
Research Fellowship	0	0	0	1	0	1
University Architect	0	1	1	0	0	0
Testing Division	0	0	0	0	0	1
TOTALS	2	7	10	2	2	3
GRAND TOTALS	82	92	153	20	28	24

Table 14. Graduate Student Fellowships and Grants, 1975-78

<u>Grantor Agency</u>	<u>1975-76</u>		<u>1976-77</u>		<u>1977-78</u>	
	<u>Grant Amt</u>	<u>Awardees</u>	<u>Grant Amt</u>	<u>Awardees</u>	<u>Grant Amt</u>	<u>Awardees</u>
<u>American Association of University Women Fellowship</u>	300	1	300	1	300	1
<u>Association on American Indian Affairs Sequoyah Fellowship</u>	0	0	1,000	1	1,200	1
<u>Associated Western Universities Laboratory</u>	0	0	0	0	570	1
<u>APS/UNM Internship Program</u>	0	0	0	0	56,000	14
<u>Buffalo Foundation Fellowship</u>	0	0	0	0	0	0
<u>Dept. of Health, Education & Welfare</u>						
*NDEA Title IX-B Fellowship	8,000	2	16,000	2	8,000	1
NDFL Title VI Fellowship	14,256	4	11,856	4	13,756	4
Energy Management Fellowship Program	32,500	5	56,184	4	0	0
Title VII, Bilingual Educ. Fellowship Prog.	166,759	33	203,143	38	194,752	31
<u>Ford Foundation</u>						
Doctoral Fellowship	0	0	0	0	0	0
Advanced Study Fellowship	0	0	0	0	0	0
Graduate Fellowship for Mexican-Americans and Native-Americans	17,730	13	8,933	12	8,413	10
<u>HEW Indian Education Fellowship</u>	0	0	0	0	5,269	1
<u>National Institute Of Health</u>						
Minority Biomedical Science Advan. Prog.	21,400	11	66,300	15	0	0
<u>National Science Foundation</u>						
Graduate Fellowship	0	0	7,300	1	14,600	2
<u>US Atomic Energy Commission-ERDA</u>	11,410	5	4,450	2	0	0
<u>US Department of Transportation</u>						
Federal Highway Administration Fellowship	5,000	1	0	0	645	1

*Formerly NDEA Title IV Fellowship

Graduate Student Fellowships, continued

Grantor Agency	1975-76		1976-77		1977-78	
	Grant Amt	Awardees	Grant Amt	Awardees	Grant Amt	Awardees
<u>US Office of Education</u>	0	0	0	0	0	0
<u>The University of New Mexico</u>						
AFGRAD Fellowship (supported finan. by the Graduate School)	1,300	1	0	0	0	0
Graduate Tuition Fellowships	22,410	54	26,033	63	34,207	57
Graduate Fellowship	3,600	1	0	0	3,700	1
LASPAU Fellowship (supported financially by the Grad. School)	1,782	2	0	0	0	0
Juan Montalvo Fellowship (supported finan. by the Grad. School)	2,278	1	500	1	0	0
American Psychological Association	0	0	0	0	12,000	4
<u>University of Puerto Rico</u>						
Tuition Scholarship	0	0	0	0	0	0
GRAND TOTALS	308,725	134	401,999	144	353,412	129

ANNUAL REPORT OF THE CENTER
FOR GRADUATE STUDIES AT LOS ALAMOS

July 1, 1977 - June 30, 1978

Shyam H. Gurbaxani, Resident Director

I. Highlights

This academic year with almost one out of three non-Ph.D. staff members at Los Alamos attending our large variety of offerings, it appeared that the Center was entering a new level of operation. This fact and a phenomenal increase of 111% in graduate offerings in the last two years were chiefly responsible for the change of designation to: "The Center for Graduate Studies at Los Alamos." Perhaps the factor most responsible for this growth is the Selective Advisement Procedure (SAP) adopted last year after intensive consultations with several departments. This procedure recognizes the potential of more mature and highly motivated students and charts out a program to make full use of his or her experience in selecting important courses rather than rigidly tying him to the same schedule required of a novice on the learning curve. The time effectiveness of SAP seems to have attracted more students.

Following are the other significant highlights of this year's operation:

- a) Highest enrollment and academic offerings since 1960.
- b) Almost 20% increase in enrolled student credit hours (SCH) over last year and simultaneously almost 20% decline in the cost/SCH (without adjusting for inflation).
- c) The new Medical School Graduate Program incorporated.
- d) Affirmative Action Procedures were initiated beginning Spring 1978 semester.
- e) The resident director, as a member of Provost's Council of Academic Deans and Directors (ADD), informed the council of potential mutual benefits of this program which go far beyond the relatively small budget of recent years (approx. \$150K). The ADD Council indicated further exploration of non-traditional avenues utilizing UNM educational TV capabilities.
- f) A rather creative avenue to enable LASL students in research, thesis and problems oriented courses has been worked out for implementation next year.
- g) The resident director had several consultations with Dr. Edward Teller (first chairperson of Applied Science Department of UCD-Livermore), Ed Hulse (Lawrence Livermore Lab.), Dean Kenneth Down (Stanford), Abraham Goldberg (UCD-Livermore) for exploring avenues of greater LASL-UNM interaction.

II. Statistics

A total of 54 formal and 20 individualized courses were offered with about 70% of the program addressed to graduate work. The Engineering College accounted for 55% of our enrollment with 19% for Anderson School of Management, 16% for the College of Arts and Sciences and 10% for the Medical School. Twenty-two UNM professors and thirty-two adjunct LASL professors were contracted for the above courses, seminars and research activities.

Attached are the customary two tables comparing the data for the past five years. Perhaps the most significant numbers, representing the quality of performance, are the cost/SCH and percentage of SCH for graduate credit. As Table I shows these figures of merit are more favorable this year than anytime in the recent history. The \$73/SCH cost was down 19% from the figure \$87/SCH of the year before. By way of comparison, cost/SCH as reported by the Board of Educational Finance, Santa Fe, for UNM, NMSU and other neighboring universities are \$200/SCH for graduate and \$60/SCH for upper division in the science and engineering courses. And of course, the total enrollment this year being higher, than any year since 1960, seems to indicate broad appeal to the LASL personnel. Last year the resident director made 121

trips to LASL of which 108 were in the performance of the Graduate Center contract. He also participated in the research, problems and seminar type of offerings involving five students and thirteen student credit hours.

III. The Only Problem

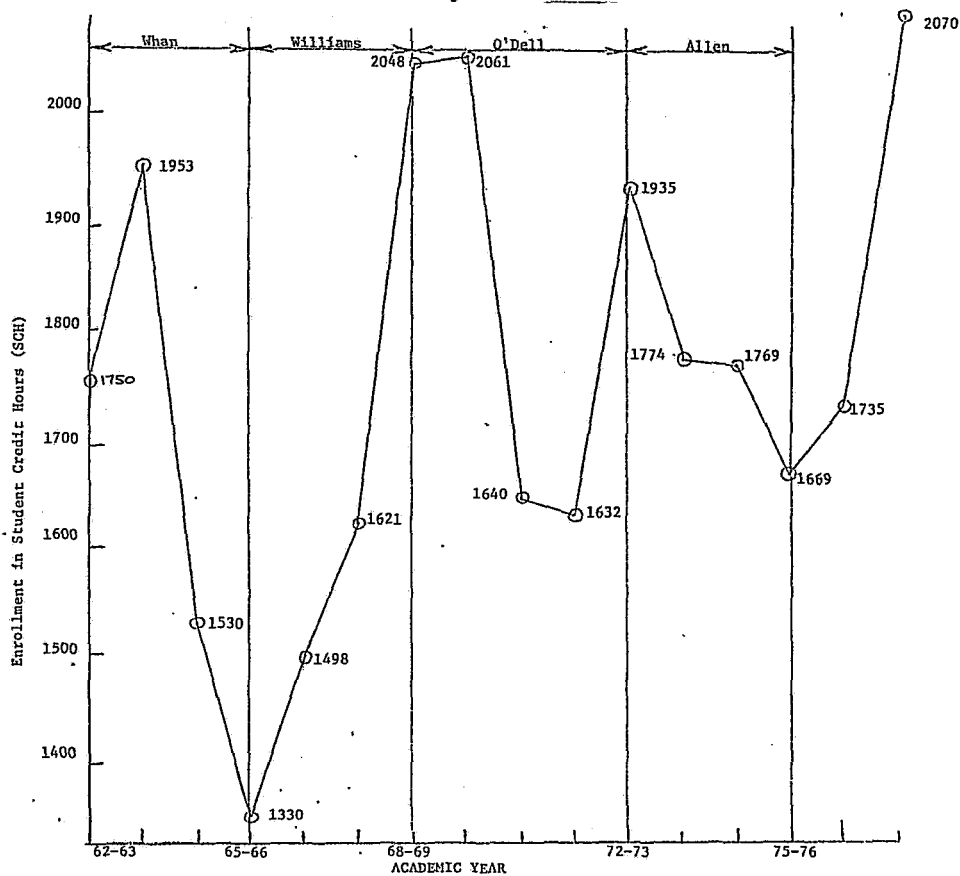
The UNM Northern Branch which was responsible for the undergraduate offerings at Los Alamos and which also by its presence furnished a center for the undergraduate residency, was dissolved on July 1, 1978, by the State Legislature. The newly created Northern New Mexico Community College (NNMCC) was given the responsibility to take over the lower division courses. While independent academic accreditation of NNMCC is pending, articulation for accreditation for the existing and new courses has been worked out between UNM and NNMCC.

Since present NNMCC students are potentially our students, as well as LASL professional staff members, there has been a great deal of cooperation from all sides. However, one problem remains unresolved. It pertains to the upper division offerings not of prime interest to a scientific laboratory (e.g., anthropology, psychology, etc.). These courses could be used as humanities and social sciences electives for bachelor's degrees. Wives of the young new Ph.D.s arriving in Los Alamos are anticipated to be the most grateful beneficiaries. One way to alleviate this problem would be by appealing to the State Legislature for funds to supplement the present offerings. Even a low budget

(estimated at around \$35K annually) state supplement to the federal funds of LASL would have synergetic effects besides solving the undergraduate residency dilemma. Unless new innovating steps such as this one are taken, it is anticipated that the enrollment in the near future will take a downward turn as can be predicted from the attached graph showing four sets of hills and valleys under the previous four directors. Indeed this may be the key difference between the LASL-UNM interaction and the LLL-UCD interaction.

The UNM Provost Hull and LASL Directors Taschek and Browne addressed a record UNM graduating class of 29 at the Second Convocation held at the Physics Auditorium of LASL.

Because of the recent federal and state legislations, involving Affirmative Action, Student Privacy, etc. (Federal Buckley Amendment, California State Roberti Bill, the General Education Provisions Act, Title IV of Pub. L. 90-247, as ammended--particularly Section 438, etc.) the negotiations of UNM-IASL contract has involved diverse personnel including UC auditors, attorneys, etc. to ensure appropriate assumption of the responsibilities to enable satisfactory compliance with these regulations.



THE CENTER FOR GRADUATE STUDIES

LOS ALAMOS

July 1, 1978

Table I

Academic (Fiscal) Year	1973-1974		1974-1975		1975-1976		1976-1977		1977-1978	
Semesters	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring
Registration:										
Dissertation (Ph.D.)	8	8	11	9	8	9	5	4	5	4
Thesis (M.S.)	2	2	2	2	1	1	1	2	2	3
Problems (Indv. Study)	20	6	11	5	12	7	9	5	19	9
Graduate Courses	178	132	217	161	138	89	162	97	318	162
Undergraduate Courses	149	95	98	99	192	127	183	154	98	113
SEMESTER TOTALS	357	243	339	276	351	233	360	262	418	291
YEARLY TOTALS	600		615		584		622		709	
Credit Hours*	1035	739	971	798	1013	656	987	748	122	842
YEARLY TOTALS	1774		1769		1669		1735		2070	
Individuals Enrolled:	261	187	269	229	267	183	274	206	304	216
YEARLY TOTALS	448		498		450		480		520	
Cost paid UNM	74300	66630	62567	65745	69651	70926	80775	70447	86049	65835
Academic (Fiscal Year)	140930		128312		140577		151222		151884	
Cost Per Credit Hours	71.79	90.16	64.44	82.39	68.76	108.12	81.84	94.18	70.07	78.19
Academic (Fiscal) Year	79.44		72.54		84.23		87.16		73.37	
Number of Courses - Offered	27	24	23	25	26	24	26	20	33	23
- Given	26	21	22	24	23	18	25	19	33	21
AVERAGE COURSE ENROLLMENT**	12.8	10.8	14.3	10.8	14.7	12.0	14.3	13.2	13.9	13.9

*Credit Hour Equivalent used for registrations as an auditor, or for non-credit courses, Thesis or Dissertation.

**These figures are for the fall and spring semesters only, and do not include registrations during the summer session or in Dissertation, Thesis, or Problems.

THE CENTER FOR GRADUATE STUDIES

LOS ALAMOS

Table II

Degree Recipients

July 1, 1978

The numbers of University of New Mexico graduates who have taken significant course work toward their degrees in the LASL Academic Training Program are tabulated below. Most Ph.D.'s and Sc.D.'s participated in both the LASL's Advanced Study Program to complete residence requirements on campus and in the Graduate Thesis Program.

FIELD		1954- 1967	1970	1971	1972	1973	1974	1975	1976	1977	1978	TOTALS
B.A. or B.S.	Biology	1	-	-	-	-	-	-	-	-	-	1
	Chemistry	5	-	-	-	-	-	-	-	-	-	5
	Engineering:											
	Electrical & Computer Sci.	5	2	1	-	-	4	2	-	2	1	17
	Mechanical	1	-	-	-	-	-	-	-	2	4	7
	Math. & Statistics	7	-	-	-	1	1	-	-	1	-	10
	Physics	2	-	-	-	-	-	-	-	-	-	2
	University Studies	-	-	-	-	-	-	-	-	1	-	1
												43
M.A. or M.S.	Chemistry	5	-	-	1	3	-	-	-	-	1	10
	Engineering											
	Chemical & Nuclear	42	2	3	-	-	-	-	-	-	2	49
	Electrical	14	3	-	-	-	-	1	-	-	-	18
	Computer Science	-	-	-	6	4	9	7	2	7	6	41
	Mechanical	8	3	2	5	-	-	-	-	-	-	18
	Engr. Sci. of Materials	5	2	1	-	-	-	-	-	-	-	8
	Computing & Info. Science	-	-	-	-	-	-	-	-	-	1	1
	Math & Statistics	4	1	-	-	1	-	-	1	-	-	7
	Physics	22	1	2	2	1	2	-	-	1	-	31
												183
Ph.D. or SC.D.	Chemistry	17	-	-	-	1	-	-	1	-	-	19
	Engineering:											
	Electrical	2	-	-	-	1	-	-	-	1	-	4
	Mechanical	4	-	-	-	-	-	-	-	-	-	4
	Nuclear	1	1	1	1	-	-	-	-	-	-	4
	Math & Statistics	-	-	-	-	2	1	-	1	-	-	4
	Physics	12	1	1	-	-	-	2	-	-	-	16
												51
T O T A L S		157	16	11	16	14	16	12	5	15	15	277

Center for Graduate Studies
at Santa Fe

Alan Reed, Ph.D.
Director

The 1977-78 fiscal year saw the Center achieving many of its important objectives. Enrollment remained strong. Many routines and procedures were established and working smoothly.

The major accomplishment was inclusion of off-campus funding in the general appropriations act by the 1978 legislature. This will fund the Center through the Board of Educational Finance in future years based on the student credit hours produced. With the achievement of this assured funding, the Center submitted plans for expansion and moving to the College of Santa Fe campus, which were approved by the University administration. During the month of June, renovated offices at the College were prepared. By the end of the year, the Center was moved to the new offices.

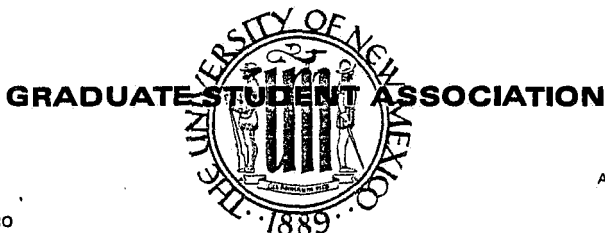
The Department of Special Education submitted a masters degree proposal to the Senate Committee on Graduate Programs and Standards and it was approved. The department will start its program in the 1978 summer session.

The 1978-79 budget was approved with funds for expanding the number of courses, for additional staff at the Center, for additional advertising and promotion. The end of the year came with considerable optimism for the success of the Center in the coming year.

SANTA FE GRADUATE CENTER STATISTICS

Semester	Students Registered	Registrations	% Women	% Spanish	% Indian	% Black	Student Credit Hours
Fall 1975	96	135	38.5	38.4	4.1	2.0	405
Spring 1976	138	164	42.0	30.4	2.9	0.8	492
Summer 1976	40	40	57.5	25.0	5.0	0	120
Fall 1976	159	214	62.8	28.5	4.4	0	642
Spring 1977	202	245	54.0	26.5	3.5	0	735
Summer 1977	113	120	72.5	40.4	1.0	1.0	360
Fall 1977	157	190	57.0	32.0	3.0	0	570
Spring 1978	159	201	57.0	21.0	1.0	.5	703
Total 1975-76*	281	346					1038
Total 1976-77	401	499					1497
Total 1977-78	429	511					1533

* Includes unofficial total of 45 students registered in summer of 1975.



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GRADUATE STUDENT ASSOCIATION YEARLY REPORT

GSA's major goals for the 1977-78 academic year were to provide representation on University Committees and provide a forum for graduate and law student input. Margaret Moses served as President of GSA and Dave McCamey served as Chairperson of the GSA Council. The GSA Council was active this year in making budgetary decisions and creating a sounding board for University and student oriented problems. During the course of the year coffee and doughnuts were provided in the GSA lounge. Two parties were sponsored in the hopes of allowing students the opportunity to meet persons outside of their departments. The Student Research Allocation Committee met once every two weeks and allocated \$9,000. GSA maintained an office upstairs in the SUB in order to provide graduate students with grant and fellowship information, college catalogues, and some housing and job referrals. GSA continued to represent graduate students on University committees, filling at least one position per committee. Problems faced this year include a proposed GSA fee cut, athletic card restrictions, parking services, mandatory final examinations, and a change in the drop-add policy.

Organizations funded during the year were; Child Day Care Co-op, Clinical Law Program, KUNM, the LOBO, Popejoy Hall, Mesa Chicana, ASA Gallery, International Center, Speakers, Poetry Series, Agora and New America. By funding these organizations, graduate students received services and discounts. GSA also funded departmental student government groups using pro-rated benefit funds.

In April, in a general election and referendum, a new budget was approved, cutting out organizations not contributing to graduate students. New groups funded include; Malsa, Intramural Recreation Board, Balsa, Law School Bar, AILSA, and the Women's Law Caucus.

This past year has been important in attempting to involve as many students and departments as possible. The increased pro-rated benefit spending is indicative that more departments and students were involved. Hopefully GSA will continue to grow, becoming a strong voice and support for solving graduate and law student individual and group problems. But also, it is hoped GSA will remain the source for cross-departmental associations for students.

Institute for Applied Research Services

Institutional Self-Study for NCA Accreditation Visit

1. **Mission and goals:** The mission of the Institute for Applied Research Services (IARS) is to serve the people of New Mexico, the Southwest and the Nation through the application of knowledge and skills available within the university. It is an official interface between university capabilities and interests and the needs of the public served. The Institute is the major mechanism within the university focusing upon public service and applied research. In this role it provides expert assistance to community leaders, government officials, businessmen, industrial executives, minority and disadvantaged groups, and private organizations. The Institute is a major part of the University's commitment to aid and promote social and economic development in New Mexico, the Southwest, and the Nation. The functions of the Institute are carried out through a number of operating agencies with distinct but interrelated roles.

Internal goals of the Institute focus on providing opportunities for faculty and students to become significantly involved in helping solve problems of the public through the application of knowledge. The support mechanisms of IARS assist interested and competent faculty members in obtaining outside funding. Most Institute programs employ graduate students in responsible roles which afford them the opportunity of applying their knowledge to problems while still part of the academic process. Undergraduates often find employment in similar endeavors by the Institute.

2. The services provided through IARS are delivered primarily through the specific programs and divisions of the Institute. Each division and program is named below accompanied by a brief description of the services provided.
 - a. Behavioral Research Division. Services available through BRD cover a range from needs assessment and evaluation of current programs to preparation of energy-related educational materials. A basic research goal is to develop and adapt methodologies to measure complex psychological

variables for use by laypersons. Members of the BRD staff have experience and expertise in a wide variety of substantive and methodological areas.

The Division uses faculty and graduate students to carry-out its work. The majority of its services are focused on needs outside the university as evidenced by the contract support provided to meet those needs.

- b. Bureau of Business and Economic Research. Services available through the BBER are quite varied but most are oriented toward the improvement of the economy of New Mexico. Major efforts relate to the continuing study of the state's economy; specific studies of state resources; operation of several economic and econometric models of the New Mexico economy, the regional economy and several local economies; and publication of the results of these studies. Another major service is that of the BBER Data Bank, New Mexico's largest body of social and economic information designated by the governor as the *official* source for such information. BBER is New Mexico's official co-operator with the U.S. Bureau of the Census in preparing population estimates and other demographic data. In 1970 BBER was the official Summary Tape Processing Center for New Mexico and expects to play a similar role in 1980.

The Bureau uses faculty and graduate students extensively in its work. Undergraduates are also employed in supporting roles. Faculty and students use the facilities of the Data Bank in their own research, as do thousands of persons annually from outside UNM. The BBER's focus for research and services is to faculty and students and to the outside world, particularly state and local governments.

- c. Bureau of Revenue Training Program. The program operates primarily in support of the New Mexico Bureau of Revenue. It provides staff training for employees of the BOR in accounting, organizational theory, administration, data processing and business law. Additionally, together with the BOR, the Program annually presents a series of workshops around the state for New Mexico taxpayers.

This program is operated primarily by faculty and is oriented toward serving a specialized need in the area of tax administration and knowledge of the taxing system.

- d. Business Assistance and Resource Center. BARC is a University Economic Development Administration Center, one of some 33 in the U.S. It directly assists businessmen, public officials, and other persons in making sound decisions relating to the economic development of the State. Primary focus is on the northern counties which have been economically depressed for many years. The Center operates through a professional staff which spends much of its time travelling in the state bringing direct assistance to the small business community. The direct assistance takes the form of management and technical advice, financial and accounting education and advice, seminars, conferences, basic information, and applied research.

The Center uses both faculty and graduate students in its programs. It also provides a laboratory for some courses of instruction in the School of Management. Its primary focus is outside the university.

- e. Center for Environmental Research and Development. This Center's primary focus is toward improvement of the physical environment. It provides technical assistance to groups dealing with land-use and water problems. The Center has assisted state agencies in examining environmental questions arising from natural resource extraction and energy generation.

CERD uses faculty members and graduate students in its work. The Center operates cooperatively with the School of Architecture and Planning but faculty members from a number of disciplines have been involved in its work. Undergraduate students may also be associated with CERD through various laboratory-type courses.

- f. Center for Leisure and Recreation. The primary activity of this Center is responding to community requests for assistance in developing recreational programs and facilities for use by all segments of the population. Another facet of its work has been the production of promotional materials used by the New Mexico tourist industry. Technical assistance in recreation/tourist promotion is provided to state and local entities.

The Center has used faculty from a number of disciplines but the faculty of Health, Physical Education and Recreation has been most heavily involved. Graduate students from that

department have also been employed to carry out various activities, particularly in community program development and implementation.

- g. Center for Human Resources Development. This organization provides specialized training and supporting services for social service agencies in New Mexico.

CHRD has used a number of faculty members from a variety of disciplines in its activities. Students have been involved from time to time in special projects.

- h. Community Health Development Center. The primary activities of CHDC relate to facilitating the establishment of rural health services (manpower, facilities, and programs) in the necessary quantity, quality, and diversity to meet the needs of the people of New Mexico regardless of geographic location or economic status. The Center is a cooperative effort between the Institute and the School of Medicine.

CHDC uses a wide variety of faculty members in its programs. A smaller number of graduate students provide support from time to time.

- i. Division of Government Research. The DGR focuses primarily on the governmental and political aspect of New Mexico and the Southwest. The Division selects for study contemporary subjects of importance to people of the state, publishes the completed studies, and distributes them widely. Survey research is a main function of the DGR and to facilitate such research a random digit dialing sampling frame is maintained for Albuquerque and for New Mexico.

The DGR uses a number of faculty members and graduate students in its work. Additionally, it provides extensive service to faculty and graduate students in support of their own specific research. It also provides support to state and local agencies.

- j. Gerontology Center. The GC has been involved in basic research into the aging processes; service programs for the elderly; dissemination of information about aging to agencies, organizations, communities, and to students; and in supporting the development of an academic program on aging. Most recent activity has centered around providing workshops and training sessions oriented toward the needs of the elderly.

The Center has used a number of faculty members from various disciplines to strengthen its programs. Its primary focus is from the university outward toward the community. Upon the development of an academic curriculum within UNM, significant potential exists for using programs of the Center as a living laboratory.

- k. Technology Application Center. The TAC is one of six NASA Industrial Application Centers in the U.S. disseminating information and providing technological assistance to private industry and to the general public. It performs broad services covering all aspects of the technology transfer process. Included is a program primarily oriented toward the industry in New Mexico, a special capability in the application of remote-sensing technology, and a special emphasis on support of state government in the remote-sensing area. Additionally, the National Energy Information Center Affiliate, supported by the U.S. Department of Energy, is engaged in pioneering work in the development of information about sources of energy information.

TAC uses faculty extensively in its various programs. It also uses a significant number of well-qualified graduate student specialists in support of its information programs. Undergraduates are used in clerical supporting roles. TAC is a tremendous source of information for all kinds of research activities and is used extensively by faculty and graduate students.

3. IARS is now ten years old. It was formed by President Ferrel Heady in 1968 as the Institute for Social Research and Development. At that time it was composed primarily of the BBER, TAC, DGR, CERD, CHRD and CLR. Two other organizations, one dealing with child development and the other with the criminal justice system were established within the Institute during its first eight years. Both of these organizations experienced difficulties internally and externally during their relatively short lives. The image of ISRAD was sufficiently tarnished by those difficulties that in 1975 the Faculty Advisory Committee suggested to the President that the name be changed to IARS. This was done effective September 1975.

The current director of IARS (author of this report) has been with the Institute throughout its entire life. So, the sometimes rocky history is well known. Some important aspects of that historical record will contribute to an understanding of the historical picture of the Institute and to its current status.

The acceptance of public service/applied research activity by UNM for purposes of gaining promotion and tenure is weak and varies among departments and colleges. If faculty are to be significantly involved in the work of IARS, they must be rewarded through their normal rewards system. That has been an historical problem and remains as a critical current problem. Most IARS division and program directors should have tenured appointments in the appropriate academic department. Presently less than half hold such appointments. (Not all who do not are appropriately qualified, but some are with little chance of receiving such an appointment.)

When ISRAD was formed, there was little financial commitment from the university. The two oldest divisions (BBR and DGR) have been funded on a line item for many years. When the request for funding for ISRAD went to the N.M. Legislature in 1969, it became the brunt of vindictive actions of that body relating to the distribution of the "Love Lust" poem by an English graduate student to his freshman class. The entire appropriation (except for \$50,000 designated to support the BBR) was stricken from the university appropriation. The Institute has never recovered financially from that event. We now receive partial funding for the IARS Central Staff and operation of BBR and DGR from the "80 percent overhead funds" designated for support of university-wide research and public service activities. The methods used to divide those funds put IARS and her divisions in an adversary role, thus weakening our relations with faculty and others. Moreover, we continue to be allocated less funding, *in real terms*; i.e., adjusted for inflation, each year. IARS now operates on a total budget of approximately \$3 million, with some \$270,000 in funds designated to us from those overhead monies. Only two of the eleven divisions and programs share in this allocation. Thus, the lives of most programs and directors depend entirely upon outside funding.

Despite the historical problems, the current situation of the Institute is relatively good. Over the past three years the former "Faculty Executive Committee" has evolved into a "Faculty Advisory Committee". The members of that committee have devoted many hours to work aimed at bringing the Institute and the general faculty closer together. The continued interaction with this group will be very helpful. The public image of the Institute has improved significantly, but more general communications work needs to be accomplished so that our services are known by a larger audience. A mechanism for communicating regularly with faculty not aware of IARS activities needs to be developed. The financial base of the Institute needs to be strengthened so that a solid base of support exists for all activities.

4. The future of public service/applied research activities in publicly supported universities appears hopeful. The new Chancellor of the State University of New York, Clifton R. Wharton, Jr., said in one of his early public statements:

"I have decided that one of the top priorities during my first year in office will be the strengthening and expanding of the State University's public service activities for the State. During the coming year you should expect to see numerous actions and new emphases, all designed to bring to bear the enormous resources of all of SUNY...upon the revitalization of New York State." (*Chronica*, Volume 12, Number 2, March-April 1978.)

New Mexico faces a different situation than does New York, but there are similarities. New Mexico faces the challenges of new population, new development, much of it based upon energy resources which will at some future time be gone. The community of scholars within the state's largest university can assist with the solutions to those challenges. The governing bodies of the state will, I think, insist that such assistance be provided. IARS is an operating mechanism which can stimulate such activity. So, the IARS role in UNM should expand over the next five years.

IARS research and service activities need to be used by more faculty and students as a living laboratory or on-the-job-training experience. The opportunity exists awaiting only the development of full cooperation between the academic function of the University and IARS. Also, attention must be given to a significant reward system for faculty who choose to work in applied research as opposed to other alternatives.

Finally, the UNM central administration is now at work on the problem of more adequate funding for IARS and her divisions. If that situation is resolved, the Institute should be able to function more effectively and efficiently. The majority of the funding for IARS activities should always come from outside sources, but it is not unreasonable to think that 20 to 25 percent of the total operation should be in the area of stable funding. Only then could all involved plan to make the Institute the viable force, both outside and inside the university, that it could, and should, be.

The Report of The Women Studies Program
July 1, 1976 - June 30, 1977

submitted by

Kathryn H. Brooks
Acting Coordinator

The year end report for the Academic year 1976-77, realistically begins in the Spring Semester, 1976, with the Coordinator of Women Studies, Dr. Gail Baker, making preparations for a year's leave of absence. A national search for an Acting Coordinator resulted in my selection in late July, 1976. The months between search and selection are adequately recorded in other offices of the University. It is perhaps important to indicate that after mounting a search cognizant of current affirmative action guidelines, the final selection was marred by dissent from within the program and legal action externally. There was some concern that my arrival would be "clouded" by this ordeal. The fact that I did not feel personally "clouded" by this problem is demonstration of the good faith in which the University and her officers conducted the long negotiations.

At the time of my arrival on August 10th there were indeed, hostile camps within the Program. My mandate obviously was to listen, learn, and begin the process of re-establishing communication while conducting the day to

day operation of the program and retaining the basic integrity of a program with a well respected national reputation. Thus the early weeks of the semester were a balancing act of listening to people express their concerns about the program while pulling together the remnants of the Women Studies Committee and making staffing and program decisions in order to begin school.

Two major items of business faced the "remnant" Women Studies Committee. The first dealt with the selection of the 1976-77 committee itself. Since the original documents forming the Women Studies Committee do not specify procedures for forming the committee, tradition has been the guiding factor. It was decided to expand the committee to 6 faculty/staff (including the Coordinator) the half-time person (whose job description includes service on the committee), two other part-time people and five students, graduate and undergraduate. The Women Studies Secretary also serves on the committee. A list follows of the 1976-77 Committee members.

Faculty and Staff

Kathryn H. Brooks, Coordinator, Chairperson
Jane Slaughter, Department of History
Phyllis Cohen, Fine Arts Library
Louise Lamphere, Department of Anthropology (On leave Sem II)
Helen Bannon, American Studies
Junella Haynes, Native American Studies
Catarina Kiefe (Sem II)

Women Studies Program

Ann Nihlen, half-time appointment
Meredith Freidman, part-time appointment
Sally Dunn, part-time appointment
Charlotte Vigil, replaced by Perlinda Shelton,
Women Studies Secretary, Committee Secretary

Students

Pat Benally (inactive)
Noemi Lorenzana (On leave for Dissertation Oct. 1 - Jan. 1)
Candy Patterson (Oct. 1 - Jan. 1)
Virginia Jordan (Graduate)
Jan Robbins
Shannon Proctor

The second area of concern which faced the "remnant" committee was the issue of where to "house" the Women Studies Program. Prior to my arrival at UNM I had been informed that a general reorganization of the major administrative offices of the University would eventually lead to reevaluation of where to academically locate the Women Studies Program, as well as the other Studies Programs. In the Fall of 1976 the program reported to the Assistant to the Provost, officially to the Office of the Provost. At the time of my arrival on the campus the decision to relocate the program seemed imminent. Thus discussion was immediately undertaken between what remained of the Women Studies committee and a representative from the provost's office. At that point it was strongly believed that we would not be permitted to continue to report to the Provost as an autonomous unit. Our alternatives were to report to

the Associate Provost, (not the Assistant to the Provost) or remove the program from the central administrative offices altogether and report to the College Dean (either Arts & Sciences or Education) as a unit. Each of the choices had strong and weak points depending on the goals of the Women Studies Program itself, and each choice would involve further negotiations between the chosen unit and the Program in terms of budget, staffing, course numbers and internal autonomy. Although the committee could discuss the choices more information was clearly needed before a decision could be made.

As the permanent Women Studies committee was formed and school began it became apparent that the University would move less quickly than originally anticipated and that there would be time to discuss the matter in a less hurried fashion. The on-going discussion of this reorganization was a constant factor within the program (as well as the University) during the entire 76-77 year. Records exist both within the Women Studies Program and the Provost's office of the various meetings and the recommendations which were a result of those meetings. The March 29, 1977 memo represents my recommendations for reorganization.

The integration of new committee members with former members is a process that takes time to develop. The

1976-77 committee was no exception and also faced the task of orienting a new Coordinator and working through all of the hostilities resulting from the selection procedure. Thrust into the middle of this process was the news that the Women Studies Program at the University of New Mexico had been selected as one of fifteen programs in the nation to be reviewed by Florence Howe in a study on the current status of Women Studies sponsored by the National Advisory Council on Women's Educational Programs.¹ Ms. Howe was an early advocate of Women Studies programs, writes prolifically about them and is a frequent consultant to programs undergoing evaluation. Thus a committee already backlogged with the usual Fall planning agenda was suddenly faced with planning an October visit by Ms. Howe. As it later became apparent her visit was a turning point for the committee. Forced to interact with Howe in an evaluation session where she sought committee response on the strengths and weaknesses of the program, individual committee members responded from their personal point of view, creating a "no holds barred" situation where there were no hidden agendas. The meeting was very tense but the result was a better working committee and a more clearly defined picture of the program. Ms. Howe's visit and the information

1. Available as Seven Years Later: Women Studies Program in 1976, A Report of the National Advisory Council on Women's Education Programs, Washington, D.C.

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she was able to elicit as an outsider added another invaluable dimension to the information the Acting Coordinator and the Women Studies Committee were beginning to gather in terms of the program's place within the University.

As we examined the program from the national perspective resulting from our conversations with Howe we could clearly see several strong educational tracks or areas within the program. With the support of courses offered by the English faculty (many of them termed Adjunct Faculty in Women Studies as a result of their interest in and service to the program) there is a strong segment of the program devoted to literature by, about and for women. Women and Literature, Asian Women in Literature, Irish Women in Literature, Contemporary Women Writers, are representative course titles. By routinely featuring one of these courses our students have a variety of offerings in English over a period of time. History has been and will continue to be a strong area with excellent student interest due to the leadership and teaching of Dr. Jane Slaughter in the History Department. Education is another UNM Program strength with courses offered both by the departments within the College of Education and supplemented by courses funded by Women Studies.

Impacting the total educational system through teacher education has been a professed goal of the Women Studies movement since its inception in the early 70's. Thus the UNM program by identifying its strengths in Education could make decisions for expansion of this area during the 1976-77 year and formulate cohesive plans for the future. Interested faculty in Educational Foundations and Women Studies met in an attempt to evaluate the courses we offered and place them in sequential order to eliminate a "hit-and-miss" approach for the future. At the 200 level we offer "Women and Self-Education," at the 300 level, "History of Women in Education," and "Sexism and Education," at the 400 level, "Feminist Issues in Counseling," and "Psychology of Women," and at the 500 level plans were made for a new research seminar on sex stereotyping. Ideally this sequence would lend itself to a future minor in Women Studies with an emphasis on Education. Participating in this discussion were Mary Harris, Vera John-Steiner and Candance Garrett from Educational Foundations and Ann Nihlen and myself from Women Studies.

The schedule of courses for the 1976-77 academic year had been set by the 75-76 committee and only minor changes were made due to changing enrollment or staffing patterns, see appendix A for this list. The plan to develop a Women

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Studies Minor had not previously been on the 1976-77 committee's agenda but as the evaluation with Howe culminated and as a skeletal plan for 1977-78 developed the committee could visualize the need for a Women Studies Minor. Interested committee members and Adjunct Faculty formed a sub-committee to formulate such a possibility. The ad hoc committee had almost completed its report for such a minor when the work was interrupted by the general campus moratorium on new courses, programs, or divisions. It would be the Acting Coordinator's strong recommendation that this should be pursued in the coming years under the new Provost.

Discussion and evaluation of the Program's strengths lead us also to assess the weaknesses. Perhaps the most glaring weakness was in the area of minority women. Courses relating to the concerns of minority women, although offered more routinely at UNM than on other campuses, still do not adequately meet minority women's needs or the general needs of all women in the University. We expressly lack minority women faculty teaching in all facets of the program. Immediate steps taken to remedy the situation involved the addition of the course "Political Economy of Women of New Mexico" Semester II, 1977, team-taught by Dr. Ann Nihlen and Ms. Junella Haynes. An attempt also was made to encourage the other studies programs (Black

Studies, Chicano Studies, Native American Studies) to offer courses that they had developed and to continue to facilitate enrollment in these courses by advertising and promoting them within our program. Discussion on long-range planning for eliminating this weakness included plans for recruitment of faculty, development of new curricula and a commitment to offer a specific course on minority women and role expectations during the 1978 Spring semester.

Other weaknesses in the course offerings focused on the contributions of women in the arts, aging and skill centered courses. The addition of "Women and Aging," "Women in Photography," and a course encompassing both skills and the arts, "Women in the Media," were planned for the 1977-78 curriculum. Courses formulated with these goals in mind are being sought by the Women Studies Committee.

Complicating the orderly expansion of courses designed to either support and strengthen women's educational needs or raise the general level of knowledge about women for the entire campus is the awkward and frustrating process by which the program must seek sponsorship of its courses. After the time and talent of the committee has been used to determine the needs of the program the Coordinator/ Acting Coordinator becomes a petitioner who must identify

a department under which a course might logically fall. Finding such a department, the Coordinator and the Department chair began the lengthy process of establishing the course and approving the instructor through the Departmental channels for course approval. Once a course has been established this process still must be followed each semester in order to verify the instructor and guarantee the continued offering of the course. As a former Coordinator of a program with autonomous course numbers I found the UNM process tedious, time consuming and frustrating! Although many department chairs were supportive and often facilitated the process both people spent too much time duplicating paperwork and going to meetings. This could have been used to better educational advantage. Occasionally the process was a hostile one. This occurred when the Women Studies Program sought to initiate a course directly related to an examination of women's lifestyles and oppression which conflicted (or appeared to conflict) with more entrenched viewpoints. An example of this process was the long discussion and meetings which preceded the offering of the Lesbian Matrix course. Ostensibly the negotiations resulted in better understanding of the goals of the course by the American Studies Committee but it was time spent by everyone which could have been used in more productive ways. If the course offerings were

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the total responsibility of the program then individual responsibility for a controversial course would rest primarily between the Women Studies Program and the University (i.e. Supervisory Unit) eliminating the cumbersome relationship with a "parent" department.

Another problem area for the Women Studies Program is the lead-in time needed for course planning. The timing change within the University (to facilitate the registration process) which forces course planning several semesters in advance is especially difficult on the programs. Although a few basic courses are routinely offered many of the course offerings are based on what faculty are available to offer a specific course that the program needs. Between the uncertainty of part time faculty and the lengthy process of securing course and faculty approval the program does not have the flexibility it needs when tied to the new schedule. When the inevitable changes do occur, deviating from the printed schedule, the chance for error is greatly magnified and confusion results.

Semester II was dominated by the selection of faculty for Fall, 1977. Following the basic pattern established in the program over the years, a faculty member from the department which houses a specific course was asked to serve on the interview committee. Those faculty members were: Candance Garrett (Educational Foundations) for Sexism in

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Education, Women in Self Education; Harry Stumpf, (Political Science) for Women in the Law; Theresa Gallion (Gereontology Center) for Half-time Instructor Committee. Faculty members of the Women Studies Committee served as chairpersons for each committee. Students applied to participate in the committee of their choice. Final selection of the new faculty was made by Women Studies Committee from Search Committee recommendations.

The concluding events of Semester II were a result of Associate Provost Clinton Adams' memo of February 15, 1977 which invited applications for special allocations for "...Budgetary Support for Selected Fields of Excellence." The application was submitted by the March 7 deadline and late in April rumors began to circulate through the program that we indeed had been awarded money to support our request for a Women Studies Scholar. It was appalling to me as an outsider the number of times that official information reached the program through unofficial channels. This time rumor proved to be correct and the Program was immediately thrown into a discussion as to how to use the money in light of the rapidly concluding school year. The decision was made to attempt to find someone who fit our needs (as described in the proposal) who could come for the entire year. If this proved impossible we would elect to find someone of national prominence for the Spring semester, 1978, using less of the money allocated to us but concen-

trating the funds needed for such a purpose. Following a national search two candidates emerged. The search, conducted after school ended in the Spring, resulted in Dr. Joyce Trebilcot from Washington University, St. Louis, Missouri being accepted both by the Program and the Philosophy Department as the Scholar choice. Our second candidate, Joan Roberts, was not interviewed as she had to withdraw due to personal/professional decisions on her own campus.

The 1976-77 year also found the Women Studies Program continuing its involvement in the National Women's Studies Association. During the Fall the program took the lead nationally in holding a lottery for the convention delegates to the founding convention in San Francisco in January of 1977. By holding a lottery the Program was attempting to get women involved as delegates who were not simply confined to the UNM program. A joint effort by delegates and UNM program members raised the money to send all seven delegates to the convention. Delegates from New Mexico, Arizona, Colorado, and Utah comprise what is the Rocky Mountain - Southwest regional unit. Because of assigned regional responsibilities to chair the charter sessions for the convention and because the New Mexico delegation bore a large responsibility for that leadership the UNM Women Studies Program was active

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and visible in the founding convention in both charter sessions and caucus organization. It was a valuable experience as the delegates experienced Women Studies on a national scope and returned to this area ready and willing to share that knowledge. Continued support by the University of New Mexico for the Program's involvement in the infant organization of the National Women Studies Association focuses attention on New Mexico's strong educational opportunities for women.

As the Acting Coordinator hired specifically for one year, I had an excellent opportunity to view the strengths and weaknesses of the program. Nationally active myself in the Women's Studies movement, I had already encountered the reputation of the program. It has long been known as a strong, academic, program with periods of internal turmoil. A period of internal turmoil was at full tilt when I arrived.

As I began to unscramble the pieces I think the following observations should be made. The program is one of the models within the United States that began as a result of student (usually graduate student) pressure for expansion of women's educational needs within the University. With the support and active involvement of key junior faculty the group formed a collective and moved into the process of establishing a program. It fit no previous mold of the

University (at least within the current generation's memory) and operated in a non-traditional spectrum. All of the seeds for conflict were there. Even Women's Studies programs formed in a more traditional manner with tenured faculty sitting on the committees, governed in traditional academic fashion, met with conflict. The relatively few, collectively organized programs, met with enormous resistance. UNM fit this model and then abruptly switched to a faculty governed program in the Fall of 1973. As a result there remains a bubbling below the surface, resentment, anger, personal jealousies, and feelings of betrayal. Traditional academic departments harbour many of the same personal jealousies and problems but containment of them is built into the system in the way of tenure, promotion, etc. No such control realistically exists in Women Studies, nor do I advocate it! However it does make the governance of a program difficult as defined in traditional ways.

The tension within the program was intensified when the need for strong leadership and academic priorities forced the Coordinator to make choices which did not fit former collective guidelines. The Coordinator could not hope to alleviate all of the pressure. The need to establish firm standards and monitor the program's progress within the University left her little time to deal with the

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growing lack of communication and hostility. All of this surfaced as the Acting Coordinator was selected in the Spring of 1976.

As I indicated earlier it was readily apparent to me that the communication and "trust" level had to be raised if the program was to survive. That was the internal priority of 1976-77.

Externally, within the local academic community especially, the internal differences obscured the many fine qualities of the program. We needed to advertise our excellent single course offerings, "Women in the Law" for example, which join previously mentioned courses and departmental offerings to provide a wide selection of courses of great value to the academic environment of the late '70s. These courses are generating new research topics and new methods of research on this and other campuses - see Howe's report. We also needed to focus attention on the exciting interdisciplinary opportunity being overlooked from a learning, teaching or research point of view.

In an overview of the 1976-77 year the program did grapple with both the internal and external concerns and it did move ahead. It moved ahead despite the political climate of the University and the daily frustrations within the program caused by not being in mainstream communication channels. My own personal disappointment is that we did

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not have time to establish programs such as a "math anxiety project." We did however continue our active participation in recruiting re-entry women, and began to work in this area with the Women's Center.

As both an outside observer and an inside participant this year, the Program appears to me to be accomplishing many of its goals. My own feelings about the Program at UNM is best summed up in the words of one of our respected Adjunct Faculty who remarked to me that "Women Studies is the only thing in the '70s that is creating viable alternatives in education and the UNM Program is doing so in a sound academic way." These sentiments are echoed in the Florence Howe report on a national level and it is exciting to know that the UNM Program is part of that picture.

The Report of the Women Studies Program
July 1, 1977 - June 30, 1978
Gail Baker, Coordinator

During the year of the International Women's Year (IWY) conference in Houston, Texas, an event many observers have described as a coming-of-age for American women--politically, economically, socially and culturally, it is appropriate that developments for the Women Studies Program at the University of New Mexico involved a broadening of its curricular strengths and a continued reaching out to serve diverse groups within the university community. It is also significant that women's movement activities at UNM and in Albuquerque have grown over the past few years to the point that Women Studies is now one of many feminist projects in this region; thus the program works in a more supportive context and benefits from increased opportunities for cooperation. At the same time, the official place of Women Studies in the university has remained unchanged: as a program attached to the Provost's office it functions in an unhealthy limbo. Footnote one on UNM's organizational chart, "Temporary assignment to area indicated pending further study and later decision," symbolizes its uncertain status (Faculty Handbook, Edition of 7/1/77, p. 19A).

In the first section of this Annual Report I will discuss curricular developments and special projects; in the next part on plans and recommendations I will consider the structural changes recommended by the Women Studies Committee and submitted

to the Provost in March 1978. However, since difficulties in scheduling and staffing courses result, in large measure, from the program's dependence on other departments and programs, curricular developments and questions of structure can only be separated for the purpose of discussion.

Curriculum

The appointment of Professor Joyce Trebilcot from Washington University as Scholar/Teacher in Women Studies for 1977-78 enabled the program to offer two new courses each semester in the area of philosophy and feminism. Professor Trebilcot held a visiting appointment in the Philosophy Department and served as a member of the Women Studies Committee. The courses were as follows: Sex and Value (Phil. 241), Feminist Perspectives on the Family (Phil. 441/541), Origins of Patriarchy and Contemporary Feminist Theory (both given as Phil. 441/541). In addition, she was the faculty adviser for a group of students who planned and organized the New Mexico Women's Conference in the spring.

Women in Sports, designed by Dr. Hollis Elkins, the half-time Women Studies instructor, provided a chance for varsity athletes, PE majors and other interested in this topic to investigate the changing status of women and sports in American culture. Title IX, of course, gave added relevance to this study. Many of these students would not be attracted to other Women Studies courses. Similarly, Women as Photographers (Fine Arts 494), the first Women Studies funded course in the College of Fine Arts, appealed to many art majors who had had little previous contact with Women Studies. Joyce Kozloff, a visiting professor in the Art

Department, offered two sections of Art, Feminism and Politics, a seminar that virtually revolutionized the consciousness of female art students. The success of this seminar and the other courses mentioned above reinforced our conviction that it is vital for Women Studies courses to be given in individual colleges so that credit may be applicable to students' own majors.

Internship (Am. St. 498), a new course for students interested in working with a community agency or feminist project, allowed advanced Women Studies students to contribute significantly to the community as well as put into practice ideas from other courses. The decision in the early fall invite a visiting instructor to give a unique course focused on ethnic women, preferably Southwest women, was implemented by the selection of Rosalinda Gonzalez, a doctoral candidate in Comparative Culture at the University of California, Irvine, to teach the Politics of Women's Status in the Southwest (Pol. Sci. 300). Ms. Gonzalez co-edited and wrote three introductory articles for a special issue of Latin American Perspectives on Women and Class Struggle; she has also traveled extensively in Mexico, Latin America and the Southwest doing research on migrant laborers.

Though the program's chief emphasis is undergraduate courses, it continued to offer several excellent graduate courses and seminars: first semester, Research on Women and Aging, team-taught by Jean Rogers and Teresa Gallion (Gerontology Center), Interdisciplinary Feminist Research, Helen Bannan (American Studies) and Sexism in Education, Mary Dudley (Maternity and Infant Care Project); second semester, Psychological Development

of Women, Vera John-Steiner and Research Seminar on Sex-role Development, Candace Garret Schau (both Educational Foundations). After repeated delays because of the university-wide moratorium on new courses, Professor John-Steiner's course was approved for regular status in the spring.

In recording the highlights of the Women Studies curriculum it is hard to give a convincing portrayal of the difficulties involved in scheduling and staffing these courses. Newcomers to the program, office staff and faculty, are always amazed at the sheer effort put into every single course. But the situation that arose this year over La Mujer Chicana illustrates so vividly the obstacles faced by Women Studies that I think it worth a detailed account. This course, one of the program's oldest (first taught in 1972) has been staffed since 1975 by Chicano Studies though the instructor for the past few years has been closely associated with Women Studies as a member of the Women Studies Committee and an instructor for Sexism in Education (Spring 1975). It is a regular American Studies course (No. 342), approved in 1974-75 as part of a group of new courses designed to allow a Women Studies and Ethnic Studies concentration within the revised American Studies minor. Thus, when Chicano Studies reported that it could not afford La Mujer in the spring of 1978, the Women Studies Committee decided to fund it for one semester and to propose that it be jointly supported by Women Studies and Chicano Studies in the future.

Following the program's usual procedure (now also required by UNM's Affirmative Action rules for part-time faculty), the

position was announced and a selection committee appointed. At every step of this process the Chair of American Studies was informed and consulted. However, when the committee's unanimous recommendation, duly approved by the Women Studies Committee, was presented to American Studies for approval, the Chair rejected the proposed instructor, an exceptionally well-qualified graduate student in Public Administration, and said he would recommend cancelling the course. In the course of subsequent negotiations the Chair did not cancel the course (in which case we would at least have known where matters stood) yet attempted in every way possible to prevent it from being offered by not approving the instructor. He impugned the integrity of the Women Studies Selection Committee: three of the five members were faculty, four were Chicanas and all had wide experience teaching or studying features of La Mujer. Finally, the week before classes began, after talking with the proposed instructor, he agreed to approve her appointment provided La Mujer were given as a section of Women's Experience in the United States, a 200-level course.

One needs to read through the thick file of memos from November through January to appreciate the bizarre and arbitrary character of the initial rejection and the eventual approval. Throughout this period, students and the proposed instructor dangled in uncertainty, and the coordinator spent hours attempting an equitable resolution of the situation. The factors bearing on this episode are tangled in the underbrush of the relationship of Women Studies to American Studies, further complicated

by internal American Studies politics. While La Mujer is a fine American Studies course in principle, the present attitude of the American Studies Department to Women Studies, the unit paying for the course, makes American Studies a poor "home" for so important a course. It would be far better for La Mujer Chicana to be a Women Studies course.

Because the Women Studies Program is comprised of both courses paid for from the Women Studies budget and those taught by regular university faculty, liaison with departments throughout the university remains an essential activity. The coordinator is aided in this task by members of the Women Studies Committee and by faculty teaching Women Studies courses or doing research in this area. Nancy Martin (Engineering) and Jane Abrams (Fine Arts) have been especially helpful in bringing to the committee's deliberations the perspectives of their colleges. Faculty serving on selection committees also continue to advise the committee on matters of curriculum. The coordinator met with advisers from college offices throughout the year and spoke at the Second Annual Spring Conference on Academic Advisement in March.

In addition to the usual end-of-semester evaluations, the Women Studies Committee decided to conduct a mid-semester review that was partially tailored to individual courses. The form included a Student Interest Profile. Both of these have been useful in planning the program. On the whole, however, evaluation of courses and the program needs close attention, and I would recommend that a sub-committee be formed to develop a finer instrument of evaluation. As Marcia Guttentag and her co-authors

point out in their report, "Evaluating Women's Studies: A Decision-Theoretic Approach," the most pertinent question for most Women Studies teachers and administrators "is not just 'Is this program a success?' but also 'How can I improve the program?' or 'How can I best meet the program goals of students, faculty, and administrators?'" (Signs, 3, No. 4 (Summer 1978), 884-890). Women Studies at UNM could profit from the use of a model such as that described in this report.

Special Projects

An invitation to the Women Studies Program to take part in Seneca Falls South led to a campus/ community forum in March. Seneca Falls South was a continuing public forum aimed at educating delegates and observers at the Houston IWY Conference about major issues relating to equality for women. Ten students and two faculty (Joyce Trebilcot and Jane Abrams) from UNM conducted workshops on such topics as Use of Media in Studying Women, Politics and Art, Lesbians, Non-lesbians and Women Studies, and Feminism and Philosophy. They also attended the plenary sessions of the three-day conference, observing the historic meetings that resulted in passage of the 25-point National Plan of Action. The program raised funds for travel and incidental expenses; housing was provided by local feminists.

The New Mexico Women's Forum, partly funded by the Greater UNM Fund, held the first weekend in March, presented workshops and special events focused on the Houston resolutions as well as other topics of vital concern to New Mexico women. All workshops were open to everybody in the community, with free childcare

provided at the Women's Center. Student participants in Seneca Falls South joined by others interested in the project worked intensively from late November through February planning the Forum. Naturally, they made mistakes, and there was justifiable criticism because no ethnic people were members of the organizing group; but on the whole I think most people associated with Women Studies and participants in the Forum. concluded that it was a valuable project. It was an event directed toward the wider Albuquerque community that succeeded in creating a place and a time for informed consideration of crucial issues.

The other special project supported by the Greater UNM Fund, a two-day Workshop on Math Anxiety, was held in April. Workshop leaders drawn from Albuquerque high schools as well as UNM attended a training session conducted by Rita Liff, a mathematics and computing science teacher from the Lawrence Hall of Science, University of California, Berkeley. The planning group included Laura Cameron (Mathematics), Michele Diel (Continuing Education), Lois Kieffaber (Physics), Phyllis Hersh (Engineering Research) and Women Studies Committee members Catarina Kiefe (Mathematics), Nancy Martin (Computing and Information Science) and Gail Baker. According to some researchers the measured sex differences in mathematics "imply substantial restrictions on the part of women in mathematics and technological development" and as such they "represent not only a 'women's problem' but a serious and urgent issue for the entire scientific community."

Math anxiety is a small part of this problem, and obviously a short workshop can do little more than call attention to it. A real solution will involve a commitment of university resources similar to those now devoted to deficiencies in reading and writing. Women's participation in science presents an equally urgent issue for the scientific community, one that the National Science Foundation has recognized and begun to act on. The coordinator worked with Professor Nancy Martin and Jane Gillespie (Biology Department) to submit an NSF proposal for a state-wide two-day workshop on Careers in Science to be held at UNM in March 1979. Women Studies will contribute clerical assistance from its work-study students.

Other special events included speakers from other parts of United States and abroad, and in most instances Women Studies cooperated with other university groups to fund and publicize these occasions. November 8: Professor Sandra Harding (Philosophy Department, University of Delaware) "Is Equal Opportunity Compatible With Democracy?" February 17: Professor Sue-Ellen Jacobs (Women Studies Director, University of Washington) Informal discussion meeting; March 9: Meridel LeSueur (poet and novelist) Showing of film about her life, "My People Are My Home," and Talk (with the Women's Center); April 20, 21: Elizabeth Stanley (University of Manchester) Talks in Women Studies classes; March 29: Alice Walker (poet and novelist) Talk, "Women Alive," and a Reading (with ASUNM Speakers Committee, Women's Center, YWCA, ASUNM-GSA Poetry Series). Professor Jane Slaughter (History) and the coordinator organized for the Faculty and Professional Women's Association a four-part Research Colloquia held at noon.

Plans and Recommendations

In the 1975-76 Report I quoted from some of the more salient points in the Interim Report of the Task Force on Program Development and agreed with these recommendations (for example, "core course or courses offered in the program's own name," guarantee of fair weighting of the interdisciplinary work in tenure and promotion decisions concerning faculty involved," guarantee that departmental commitment will normally survive the departure of a given individual"). I feel uncomfortably like the proverbial broken record, but in this last Report I wish to repeat some of my earlier recommendations. From my experience at UNM (beginning with the Conference on Women Studies in April 1971) and from study-visits to other programs while on leave in 1976-77, I have concluded that a change in the organizational place of the Women Studies Program is greatly needed. In fact, it is long overdue. Most observers believe that the accomplishments of the last six years demonstrate the program's excellence. A crucial next step is to move from its present status as a "more or less fully fledged structural unit" to a regular academic unit. It is the "less" that has bedeviled the growth of the program at UNM and, I believe, prevented it from carrying out its mission. To continue to deny the program the modicum of academic autonomy proposed in the following documents seems to me to perpetuate the condition of sex discrimination that gave rise to Women Studies. In March 1978 Proposed Changes in UNM Women Studies Program and a statement of Governance were sent to the Provost for review. Changes suggested by the Provost were incorporated in the final version, and both documents were approved by the Women Studies

Proposed Changes in UNM Women Studies Program

March 1978

In order to fulfill its primary responsibility to students: to provide a coherent academic program focused on women and feminism, the Women Studies Program at UNM requires two structural changes within the university. These changes encompass the interrelated areas of curriculum and staff.

Following the recommendations of the Interim Report of the Task Force on Program Development about structural provisions required for "new" programs, the Women Studies Program will offer core courses in its own name. Essential offerings include Introduction to Women Studies, Women and the Law, Special Topics in Feminism, a Senior Seminar and other distinctively Women Studies courses which do not fit into the mission of existing departments. These courses would enable the program to develop a carefully designed minor, eventually a major, or a concentration, in response to student interests and needs, and to cooperate as an equal with academic departments in initiating courses that continue the work of eradicating sex discrimination in the curriculum. Courses would be proposed to the University Curricula Committee in the usual manner.

The second structural change relates to staff. At present the Women Studies staff includes a full-time coordinator with a non-probationary faculty appointment in American Studies, a half-time instructor in Women Studies, four to five part-time instructors, two to four special teaching assistants or associates, all in Women Studies, and a department secretary. An important provision of the Curricula Committee's recommendations concerning Women Studies (approved by the General Faculty, May 1972) was that "the instructors in charge of the courses should be accredited in the usual fashion, which means that they are attached to existing departments as full-fledged members thereof" (emphasis added).

Since regular faculty status for those in the program remains a vital need, we propose that at this point full-time joint faculty appointments in Women Studies and a department be authorized. These would be initial three-year or probationary positions for persons qualified in a traditional (departmentalized) discipline and experienced in Women Studies. Teaching and research expectations would be divided between the department and the Women Studies Program. In 1976 a similar faculty position was approved by the Department of Political Science, the Dean of Arts and Sciences and the Vice President for Academic Affairs (see attached memo).

Many universities have approved such joint faculty appointments as the best way of ensuring continuity and quality for an interdisciplinary academic unit. While we recognize the difficulties, we believe they are not insurmountable and that the Women Studies Program and various UNM departments are capable of the creativity and cooperation necessary for successful joint appointments.

President Davis has stated that "we must recognize and accept our responsibility to design and implement programs which strike at the total problem of denial of equal access to opportunity rather than simply overt manifestations." The Women Studies Program is one such effort: it is intended to help women realize "their full potential" and achieve "equality within the institutions of society" (quotes from Faculty Handbook, p. 56B). To carry out these purposes we believe that the structural changes recommended above are imperative for Women Studies.

The Women Studies Committee is the governing body of the Women Studies Program. In conjunction with and through the coordinator of Women Studies, it makes recommendations concerning the program at UNM. The committee proposes new courses or programs in Women Studies to appropriate departments, divisions or units within the university and serves as a liaison between the Women Studies Program and departments and divisions regarding both curricula and staff, and is responsible for planning the overall development of the program.

The Women Studies Committee is composed of: a) six faculty/staff appointed by the Provost from recommendations by the committee, b) two part-time Women Studies faculty including the half-time Instructor in Women Studies as an ex-officio member (the other selected by part-time Women Studies faculty), c) five students, three undergraduate, two graduate (selected from applicants by the Women Studies Student Association.) In order to meet the needs of minority students more effectively, the committee has voted to expand its membership "by three minority women, to be chosen in a way yet to be determined" (WSC Minutes, 11/2/77). A sub-committee will recommend how to implement this decision. Terms of office are two years for faculty/staff, one year for students and part-time faculty, both with the possibility of renewal. Ex-officio members are the Women Studies Coordinator, Department Secretary and half-time Instructor.

Since the spring of 1974 positions in Women Studies have been announced and advertised. Selection committees appointed by the Women Studies Committee review applications, interview candidates and select instructors for courses supported by the Women Studies budget. Selection committee members include faculty, staff, students, and when appropriate, people from the community. On approval by the Women Studies Committee, the proposed instructor is recommended to the department or unit sponsoring the course.

Appointments

Staff listed below includes those selected by committees in 1976-77 (starred *), replacements (**), and teachers chosen Semester I, 1977-78. Our present situation, with its heavy dependence on part-time instructors and TA's hired from semester to semester, prevents long-term planning and consumes excessive time in interviewing and selecting teachers. Despite these drawbacks, the program has been able to attract and hire instructors who are not only expert in their field but often bring to their teaching a wealth of non-academic experience.

Susana Anaya (grad. student, Guidance & Counseling)
Feminist Issues in Counseling (Spring)

Gloria deTevis (grad. student, Public Administration)
La Mujer Chicana (Spring)

Mary Dixon (J.D. UNM Law School)** Women and the Law (Fall)

Mary Dudley (M.A. English/ Educational Foundations)**
Sexism in Education (Fall)

Hollis Elkins (Ph.D. American Studies, UNM)*
Half-time Instructor, Women Studies: Women in Sports
Intro to Women Studies

Kyle Fiore (grad. student, American Studies)*
Half-time TA: Intro to Women Studies

Teresa Gallion (Gerontology Center)+
Research on Women and Aging (Fall)

Jane Gillespie (Biology Department)**
Women in Science (Spring)

Rosalinda Gonzalez (Ph.D. cand. Comparative Culture, U. of Calif.)
Politics of Women's Status in the Southwest (Summer)

Susan Kilgore (grad. student, American Studies)*
Half-time TA: Intro to Women Studies

Diane Papstein (Social Sciences Bibliographer, Zimmerman)
Economics of Feminism (Spring)

Meridel Rubenstein (M.A., M.F.A., Photography, UNM)
Women in Media and Education** (Fall)
Women as Photographers+ (Spring)

Sarah Singleton (J.D. Indiana Univ. School of Law)
Women and the Law (Spring)

Ellen Souberman (J.D. UNM Law School)* Women and the Law

+ Selected by Women Studies Committee to teach specific new course.

** Co-instructor, 1975-76; developed course with N. Martin.

Perlinda Shelton continued as Department Secretary, working half-time from October 1 through the end of first semester. Victoria Prinz, who had replaced Ms. Shelton while she was on maternity leave in August and September, served as half-time Secretary October 1 through December 31. They both contributed to the program in myriad ways above and beyond the requirements of the job. Shannon Proctor and Sarah Stanley, Program Assistants employed through UNM's work-study program, devoted themselves to routine but essential jobs and special projects: their help to everybody connected with Women Studies was invaluable.

Separations

Gail Baker, Coordinator of Women Studies and Assistant Professor of American Studies since 1973, resigned effective May 13, 1978. Between October 10, 1977, the date of the first memo raising questions about the terms of her faculty appointment and her resignation May 8, 1978 there were many memos, many meetings and much discussion of the academic appointment of the Coordinator of Women Studies. In his March 29 memo, "Options for Academic Appointment for Women's Studies Coordinator," Provost Hull stated: "It is determined that the non-probationary assistant professorship is inappropriate for the coordinator. . . .In effect, Gail's appointment was a mistake, and is contrary to policies of, for example, the AF&T committee." Since the only title available for full-time faculty which is non-probationary is Lecturer (according to this same memo) and in the light of having initially accepted an appointment as Assistant Professor of American Studies

and having had it renewed for four years, the decision was made to resign.

The nature of the academic appointment for the coordinator of Women Studies remains an important issue--and one bound to affect the future of the program. The faculty and students who negotiated the original terms of the coordinator's appointment were convinced that professorial rank was essential. The Women Studies Committee reaffirmed this position in its February 27 recommendation to the Provost. The vast majority of faculty associated with the program agree.

Personally, I am grateful to many UNM faculty, staff and students for their support and counsel during a difficult period for the Women Studies Committee and for me. In particular, I appreciate the work of the Sub-committee on the Coordinator's Academic Appointment: Louise Lamphere, Nancy Martin, Joyce Trebilcot, and for one meeting, Mary Harris.

Relations with Other Organizations

Because Women Studies grew out of the contemporary women's movement, programs across the country try to maintain close ties with university and community women's organizations. The program at UNM is no exception. The Women Studies Student Association, formed last year, continued to meet regularly at the Women's Center. It selected student members of the Women Studies Committee in the fall and sponsored several events: the August 26th Rally comemorating the adoption of the Suffrage Amendment in 1920, an Open House, the New Mexico Women's Conference. Other campus groups the program worked with include the Women's Center, the Women's Law Caucus

and the Returning Students Association (co-founded by a Women Studies Committee member in 1976-77).

Nationally, one of the most promising developments has been the founding of the National Women's Studies Association in January 1977. The acting coordinator was one of the coordinators for the national founding convention, and several women from UNM were delegates. A group of friends and members of NWSA at UNM put out two issues of NWSA NEWS, an experimental four-page newsletter directed toward Women Studies people in the Rocky Mountain/Southwest Region (Arizona, Colorado, New Mexico, Utah). The publication's purpose, to create a viable network for support and sharing among feminist educators in this region, failed; but the two issues--July and November--were warmly received and commended. The second issue was instrumental in publicizing Matrices, a Lesbian/Feminist Research Newsletter, and Sojourner, a Third World Women's Research Newsletter. Both of these new newsletters, free to any interested person, are outstanding publications. Also significant nationally was the publication of Seven Years Later: Women's Studies Programs in 1976. This Report of the National Advisory Council on Women's Educational Programs reviews fifteen mature programs, including Women Studies at UNM. It raises most of the thorny questions and should, I think, be required reading for everybody concerned about the future of the Women Studies Program at UNM.

Locally, the program has assisted--and been helped by--a number of feminist organizations such as Concilio Sor Juana, an association devoted to Chicana issues, the Albuquerque

Women's Health Center, Rape Crisis Center, Siren Productions, National Organization of Women and the YWCA. The monthly noon information meeting at the downtown YWCA, sponsored by the New Mexico Commission on the Status of Women has benefited Women Studies and all feminist organizations in New Mexico.

DATE: July 19, 1978

TO: Anne Brown, University Secretary

FROM: Morton Hoppenfeld, Dean, ~~School of Architecture & Planning~~

SUBJECT: Update to Educational Development Plan

The principal short-term goals of our school can be briefly summarized:

1. To establish a separate graduate degree-granting program in Community and Regional Planning at the earliest possible time. To improve the quality of this program to the point where the Association of Collegiate Schools of Planning and the American Institute of Planners would certify that program.

To attract about 15-20 entering graduate students each year.

2. To improve our graduate Architecture program beyond its current level. This would require more graduate level faculty and the establishment of higher standards of selection for entering students, greater emphasis on recruiting, and concentration on graduate level work as distinct from upper class undergrad.

We view goals 1 and 2 to be complementary.

3. To improve our ability to serve the state and communities in directly responsive efforts of research and special projects and indirectly, in continuing education, workshops and professional (graduates) resources.
4. To add to the School programs a graduate degree in landscape architecture.

Specific objectives:

78-79

- a. Complete all necessary administrative processes on campus and with BEF to enable the granting of separate degrees in planning.

- b. Explore and arrange to the extent possible for joint degree programs with other appropriate programs such as, Public Administration, Management, Engineering, Geography, etc.
- c. Rigorously apply new curricular requirements and student performance incentives.
- d. Recruit and hire 2 FTEF, one for Graduate Architecture Program head and one for Building Technology sequence coordinator.
- e. See new building wing completed.
- f. Initiate and improve graduate recruiting program.
- g. Continue and improve existing programs in Research and the Environmental Design Education.
- h. Establish an effective board of directors, broaden service functions for DPAC and seek additional funding for Director.
- i. Resolve teaching of Architecture history with College of Fine Arts.

79-80

- a. Complete unfinished business from 78-79 and continue programs listed above.
- b. Secure separate funding for DPAC director.
- c. Add 1.5 FTE faculty positions to serve needs of planning program.
- d. Increase graduate enrollment to 15 NAGS, 15-20 Arch, 10-20 Planners.
- e. Occupy new building wing.
- f. Get approval to begin planning for grad Landscape Arch program and permission to recruit 1 FTE faculty for Fall '80 start.
- g. Find additional rental space.

Anne Brown

-3-

July 19, 1978

80-81 - Continuing

- a. Add one senior FTE faculty position in Landscape Architecture and develop program plus securing of new degree thru necessary processes. Recruit students.

82-83 - Continuing

- a. Enroll 10-15 students in graduate landscape program.

83-84 - Continuing

- a. Add one junior FTEF in Landscape Design program.
- b. Begin process of Accreditation with AIP and with Association of Collegiate School of Landscape Architecture.
- c. Reassess - Dean takes a sabbatical.

MH:lt

THE REPORT OF THE COLLEGE OF ARTS AND SCIENCES

July 1, 1977 - June 30, 1978

Nathaniel Wollman, Dean

COLLEGE OF ARTS AND SCIENCES

Annual Report, July 1, 1977 - June 30, 1978

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I. ADMINISTRATION

Clifford Crawford completed his term as chairman of Biology and is succeeded, beginning July 1, 1978 by James Findley.

Wayne Pace resigned as chairman of Speech Communication, effective June 30, 1978, to take a position at Brigham Young University. Jean Civikly will be acting chairman during 1978-79. The department will prepare a review of its plans for the next few years before a final decision is made regarding the chairmanship and the nature of a replacement for Professor Pace.

By action of the A&S Faculty it was determined that the college would assume responsibility for its graduate programs by creation of a single graduate committee consisting of a representative of each department with a graduate program. The committee met regularly to develop its procedures and to clarify relationships with the office of the dean of Arts and Sciences and the Graduate School.

A&S Committees active during 1977-78 were (see Table I for membership):

- Tenure
- Promotion
- Humanities
- Natural Sciences and Mathematics
- Social Sciences
- Graduate
- Human Subjects
- Student Advisory Council
- American Studies
- Comparative Literature
- Linguistics
- Russian Studies
- Ad Hoc Committee on Interdisciplinary Major
- Ad Hoc Committee on Academic Programs
- Asian Studies

II. ACADEMIC PROGRAM

The faculty approved a new multidisciplinary major. The major is authorized on request of the student and with approval of the college's Committee on Interdisciplinary Majors. Each student has a separate committee consisting

of faculty from the three to five departments from which the major is drawn. The Interdisciplinary Committee spent 1977-78 in establishing detailed procedures. A department may choose not to participate in such a degree. Requirements are 54 credit hours; a minor is not required. The major is designed for students with an interest in the environment, aquatic environment, urban studies, mass communication, criminal justice and comparable multidisciplinary topics. Those multidisciplinary programs already authorized--e.g. Latin American Affairs, Comparative Literature, Asian Studies, Russian Studies--and departmental joint majors such as English-Philosophy remain in effect.

An undergraduate major in American Studies was approved. Although administered by a single department, the major is multidisciplinary in its nature.

Neither of the two new majors require additional courses or additional faculty.

The faculty also clarified the number of credits required for a second degree: an additional thirty hours plus meeting all other requirements for the degree, without regard to the sequence in which credits were earned for the first and second degrees.

With the resignation of Jack Kolbert it was determined that before a replacement would be authorized the French program, especially the Ph.D. in Romance Languages with a major in French, would be reexamined. A visit by two French scholars, one from the University of Texas and one from Harvard, is scheduled for Fall 1978.

The German Summer School in Taos (Taos Ski Valley) was held in the Summer of 1978 along with, for the first time, a comparable program in French. Both were successes. If these programs are to continue, a more stable funding arrangement is needed.

A multidisciplinary freshman course, Natural Science 125 and 126 was offered for the first time. There was no laboratory, a deficiency that will be remedied for 1978-79. In 1978-79 Professor Kidd expects to incorporate more faculty participation from departments other than his own. If funds and faculty staff time could be squeezed out of departmental programs we would like to offer multidisciplinary freshman courses in the humanities and social sciences. Two multidisciplinary courses in the social sciences have been planned in recent years (See Annual Report, 1976-77) but because of shortage of staff neither has been given. A planning group appointed several years ago to construct a humanities course never got started; an earlier experimental multidisciplinary course in the humanities was offered some years ago and has not been repeated.

The status of the Andean Center was reviewed but no decision was reached regarding its prospects beyond 1978-79. Lack of outside support and relatively low UNM enrollments bring into question the merit of indefinite continuation, in spite of the academic quality of its program. Moreover, SCH's generated in Quito are not included in the funding base of the University.

The faculty approved the proposed degree, Associate of Arts in Arts and Sciences, to be offered on the Gallup campus.

The Committee on Academic Programs completed its agenda and submitted a report to the dean for transmission to the faculty. The faculty will review the report and take necessary action during the academic year 1978-79.

III. ACADEMIC STANDARDS

In 1977-78 for the first time a substantial number of graduating seniors took the required exit tests--the UAP Aptitude Tests and the UAP or GRE field tests. The average A&S scores were 500.5 and 492.9, respectively for the verbal and quantitative tests, compared with national norms of 416 and 444.

Fourteen departments offered the field tests. The average scores in all but two of the field tests were approximately at or above the national averages for graduating seniors (UAP norm). Students in French, Geology, and Physics, exceeded both the UAP norms for graduating seniors and the GRE norms as well, the latter based on the testing of graduate school candidates.

The significance of a comparison with UAP norms is not clear, given the wide variety of institutions whose students constitute the basis of the norms. A more useful comparison would be with the average scores of students from major state universities.

Dr. Venardos surveyed several classes during 1977-78 regarding study habits and time spent on academic work outside of class. The results were the same as yielded by previous surveys: the average student spends about one hour out of class for each hour in class, an amount that is about half of what is traditionally expected and less than half the time spent by the average student at the best academic institutions. It is reasonable to hypothesize that the educational gap between respective graduating classes of UNM and the best academic institutions is greater than between respective entering classes, even after recognizing the substantially different rates of attrition en route. This hypothesis should be tested along with a comparison between UNM graduates and the graduates of neighboring state universities.

We also surveyed A&S graduates of the classes of 1970 and 1976. Data are now being studied and will be available for next year's Annual Report.

Grading practices continue to improve. A's and B's as a percent of initial registrants, (not final grades), in lower division courses fell from 36.8 to 34.8 between Semester II, 1976-77 and Semester II, 1977-78. A number of departments still award an unusually large number of high grades to lower division students. American Studies, Economics, Modern and Classical Languages,

and Physics awarded over 40% A's and B's. Lower division enrollments in each of these departments ranged from 125 in American Studies to about 2,200 in Modern and Classical Languages.

In spite of the persistence of unduly high grades, a number of departments have taken corrective steps. Substantial declines in the number of high grades were recorded by Speech Communication, Spanish, and Astronomy. The Economics Department moved in the contrary direction, accompanied by American Studies.

The decline in high grades is reflected in the number of students designated for the dean's list. The figures for Semester II, expressed as a percent of total A&S students are as follows (see Table XIII):

	<u>%</u>
1973-74	20.9
1974-75	19.3
1975-76	16.4
1976-77	15.2
1977-78	14.3

The matter of equity in selection of members for Phi Kappa Phi has been raised with its president, Dean McRae, in light of the variations in grading policies followed in the several schools and colleges.

Data on probations and suspensions reflect the increased demands imposed upon students, (not very onerous if the results of student surveys are accurate), as well as the inadequate preparation and/or motivation of students in the College of Arts and Sciences. The number of students on probation and suspended in Semester II of each year, expressed as a percent of total A&S enrollment is as follows (see Table XII):

	<u>%</u>
1972-73	2.8
1973-74	2.9
1974-75	3.1
1975-76	3.8
1976-77	4.6
1977-78	10.5

There is no reason to expect a reduction in academic probations and suspensions so long as one third or more of the entering freshman class is neither prepared nor interested in academic work.

IV. RESEARCH

A substantial fraction of the A&S faculty is engaged in research and writing for scholarly journals and presses. A quick survey of faculty biographical records for 1977 indicated an output of published articles and books that averaged about one per faculty member for the college as a whole, although only a part of the faculty was responsible for the output.

An index of research activity is the dollar amount of new research and training grants received in the academic years 1967-68 and 1977-78. (See Table XVI.) For the college as a whole a ten-year comparison shows the following:

1967-68	\$1.6 million
1977-78	3.4 million

These figures understate the total amount of sponsored research and training by the amount of funds continued from earlier years. Departments or units with the largest aggregate amounts of outside support (\$100,000 and over) are Anthropology, Biology, Chemistry, Economics, Geology, Mathematics and Statistics, Physics and Astronomy, Psychology, Office of Contract Archeology, and Institute of Meteoritics.*

During 1977-78 an agreement was reached with the John Muir Institute to accommodate a new journal, The Journal of Environmental Ethics, within the Philosophy Department and to share the services of its editor.

*Please identify any mistakes. This is the second time that we assembled these figures with the help of the Business Office and we do not guarantee accuracy.

In comparison with faculties of major research universities the A&S faculty works at some disadvantage. Departmental funds for research equipment are limited to tiny amounts, if any, taken from returned overhead. Funds for research expenditures in departments that receive no returned overhead are non-existent. There are no funds to support research travel other than what might be granted by the Research Allocation Committee (See Table XV). I question the suitability of the distribution formula by which funds earned as overhead from research projects are used to support other activities.

The College continues to provide several relatively small (\$1,200) summer research stipends. The number and amount of these stipends should be increased, especially for the benefit of young faculty members and those in fields for which outside support is unavailable.

V. STAFFING AND BUDGET

The College remains understaffed and underbudgeted and cannot conceivably provide a first class undergraduate education along with respectable graduate education. There are serious deficiencies of staff, space, and equipment in virtually all programs of the College.

VI. UNFINISHED BUSINESS

Given the particular characteristics of New Mexico's physical, biological and human environments and the University's history to this point it seems reasonable to put forth special efforts in fields for which we have special advantages. During 1977-78 we lost critical faculty, were threatened with loss of others, failed to fill a strategic position that was funded, and failed to secure funding for another strategic position. Staffing is too

thinly distributed over traditional departmental programs to allow experimentation with new courses and new programs. Whenever it seems as though the strain might be relieved a budget reduction or the requirement to staff remedial programs absorbs the slack. In fact, given the meagreness of resources in most departments, there is rarely any slack, since minimal improvements in the teaching of undergraduate and graduate courses quickly absorb all available faculty time.

Maintenance, let alone improvement, of academic standards is a never ending concern, especially in the face of large numbers of admitted students with obvious disinterest in and incapacity for college level work. A faculty member facing a class of which a third are incapable of completing a normal freshman assignment either must accept an abnormally high failure rate or dilute the course to the level of the bottom third. The result is a mish-mash of unsuccessful compromises. Good students are bored by elementary presentations and assignments--they can't help but get 100% on quizzes and tests. Poor students remain poor students because they never did any work in high school and see no reason to change their way of life at the University; as soon as they've established their credentials as having "attended UNM" they leave. The faculty finds it difficult to maintain a sense of responsibility to teaching in general and to the student in particular in the face of an admissions policy designed to maximize the 21-day SCH count. The public's view of the University reflects the sentiments of the bored student on the one hand and the drop-out's rationalization of why the University failed on the other. After two or three years of exposure to the tension created by trying to maintain academic quality in the face of apathetic and ignorant masses of students the faculty accepts the lowered level of performance as the standard, either without recognition of what has happened or with cynical acceptance of

the inevitable. Many faculty are, of course, partially insulated from this sequence of events by their upper division and graduate students and their own research programs. Many of us cannot escape.

The solution is neither simple nor painless. Entrance requirements should screen out those who cannot begin college work or who do not have the determination to succeed. All courses should conform to the standard of at least two hours of outside work for the average student for every hour of class. The average grade should be a C. Serious students will get a good education. The gentlemen's C will be restored to respectability. The public will once again be assured of the fact that the University is an institution of higher learning.

Within the College we face a problem with administering the regulation that students must take the Communications Skills Test (CST) prior to admission to the College. The problem arises with transfers from outside the university, disposition of students who flunk the CST but who are otherwise in good standing and have no place to go, and students who have not taken the CST but who are otherwise in good standing and have no place to go. Our policy has been to grant provisional admission with the condition that the student take and pass the CST promptly, or if he should fail, that he enroll in an English writing course in preparation for the next test. We find that considerable staff time goes into disenrolling and reenrolling students. We cannot always distinguish between those students who act in good faith and those who play their own game. We are acquiring data on the numbers involved preparatory to bringing the matter before the faculty. In the meantime several other colleges are also using the CST. I believe that the CST should be required throughout the University, including BUS.

A matter of continuing concern to many departments and the college office is inadequate contact with the student for advisement and knowledge of

post-graduation activity. Probably a majority of chairmen would support mandatory advisement in spite of the difficulties encountered in the past with such a system. One of the findings of our surveys of two alumni classes is a commonly expressed regret at failure to take advantage of voluntary advisement. The answer apparently is restoration of an advisory system.

VII. DEPARTMENTAL REPORTS

The departmental reports are an essential part of this annual report. All departments face common problems but all do not move to a single beat. Anthropology and Economics are providing a well rounded evening curriculum over a period of years, one for the B.A. and the other for the M.A. Mathematics and Statistics has devised a new M.A. in applied mathematics that will include a practicum to be served in either industry, governmental research laboratory, or other academic department on campus. Several departments convoke fellow scholars from other New Mexico colleges and universities to meetings devoted to common academic interests. Geology conducted an excellent survey of 54 departments of geology or earth sciences around the country, collecting data on enrollments, faculty size, publications, research grants and contracts, and faculty salaries. Modern Languages expanded its Taos summer program to include French and hopes to add Spanish. Biology is cautiously adding an honors program. All departments continue to reexamine programs, stimulate research and publication, and cope with problems of space, shortage of equipment and supplies, and lack of sufficient GA's and TA's.

ANNUAL REPORT ON SUMMER SESSION

Ralph D. Norman

This is the first annual report on the Summer Session. It is entirely appropriate, therefore, to trace briefly the history of Summer Session activity for the past five years inclusive (1974-1978). Following are the summary data:

Year	Enrollment*		SCH	% Change	Basic	
	Students	% Change			Allocation	% Change
1974	6,742	--	20,514	--	\$284,000	
1975	7,753	+15.00	23,517	+14.64	305,000	+ 7.34
1976	6,310	-18.61	19,553	-16.86	353,700	+15.97
1977	6,195	- 1.82	19,128	- 2.17	360,000	+ 1.78
1978	5,865	- 5.34	18,035	- 5.71	371,500	+ 3.19

*Enrollment figures for 1974-77 are for the end of the session. Those for 1978 are for the end of registration in June; these N's will increase in August.

The above table shows that a marked enrollment increase in 1975 was followed by a drastic decrease in 1976. There was an obvious lag phenomenon present in allocations for these two years. Enrollment and allocations were roughly matched for the subsequent years, although the 1977 to 1978 changes are rendered somewhat inaccurate by differences in their time bases. Overall, there has been a loss of 13.01% in students from 1974-78, with a corresponding 12.08% loss in SCH. The 30.81% increase in allocations over four years represents an average increase of 7.70% per year, a figure grossly distorted by the 15.97% increase in 1976. However, the slight dollar increases of the last two years do not reflect either inflationary pressures or merit increases despite the modest losses in enrollment. Finally, one important feature of interest over the past five years was the institution of summer research stipends to junior faculty starting with two in 1974, increasing to three in 1975, and to four each in 1976, 1977, and 1978.

Table XVIII gives the breakdown by departments of summary data for the summer sessions of 1977 and 1978 respectively. In terms of percentages, there

is little dramatic shift in any department--none varies by as much as 2%. Again in terms of allocations, the latter faithfully reflect this fact. However, in terms of total dollar amounts, several observations need to be made. The original 1978 college allocation was held at \$360,000 by the Provost in November 1977, the same amount as last year, but a small additional sum was set aside to encourage meritorious programs above the usual instructional ones. After competition among a number of proposals, the following departments received additional allocations: American Studies, \$817; English, \$4,000; M&CL, \$3,700; and Speech Communication, \$2,500. All these departments, except English (which had an original allocation of \$41,400) reflect these additional amounts compared to last year. In addition M&CL was granted a further additional sum to aid in developing a program of Spanish for Bilingual Teachers in connection with its application for a government grant in bilingual education. Overall, despite the need for the Spanish bilingual program, and despite the pressures of a mandatory 5% salary increase for faculty, while holding the initial basic budget to the same amount as last year, the contingency fund held within the \$371,500 original allocation.

Several problems continue to vex summer session administration. Among these are:

1. Announcement of course offerings too late for registration publication which causes low enrollments.
2. Shifting of teaching personnel in and out of assignments due to receipt of research grants, need to travel, summer consultancies, resignations, etc.
3. Some clear policy for compensation of individuals acting as summer chairmen.
4. Failure to pay professors above a certain salary the full two-ninths of their usual contracts. This "ceiling effect" has aroused objections, especially among senior faculty.
5. Integration of summer compensation with those of other divisions.

The summer "total immersion" language programs at Taos need special mention. Students are exposed to substantial intellectual content as well as to intensive speaking experience. Students work hard and are uniformly enthusiastic. Because of their nature, the programs are costly although German, now in its third year, has been receiving good outside support. Taos enrollment in SS 1977 was 313 SCH at a total cost of \$8,425 to A&S with a mean cost of \$26.92, twice the remaining A&S mean of \$13.03. Enrollment for SS 1978 is as yet unavailable from Continuing Education, but total cost to A&S is \$14,512, for a 72% increase over last year. When the additional cost of the bilingual education allocation is eliminated, Taos now consumes about 32% of the already large M&CL budget (inclusive of the Provost's special allocation). If central administration is sympathetic with the goal of development of a "Middlebury of the Southwest" at Taos, I would strongly recommend some special allocation each year to cover costs beyond the usual budget.

Finally, it should be noted that an ad hoc summer session committee appointed this year has been studying problems of the session with the view of its enhancement university-wide.

ANNUAL REPORT OF ADVISEMENT CENTER

Thomas J. Venardos

Student Services

Demand for academic advisement continues to be strong in Arts and Sciences. During this fiscal year, 8,431 students were seen. Students are requiring more time for advisement. They require more time for two reasons: (1) the advisors are building a relationship with students as they progress through school and these students return to talk more seriously about their concerns and (2) liberal arts students change majors more frequently because of the nature of their education as compared to other professional colleges which have a more rigid curricula. In the case of liberal arts students, the freedom of choice causes uncertainty, confusion and requires more responsible decision making. Advisors do act as excellent agents to talk to when these decisions must be made.

This year health sciences students demanded more time. The center is serving freshmen, sophomores, juniors, seniors and graduate students. Many of these students ask for an appointment and talk about the following matters: establishing a professional folder, significance of MCAT scores, getting letters of recommendation, learning about procedures for getting into medical school, and learning about alternatives to medical school. It can be estimated that 150 students are serious applicants to medical school each year. Along with these medical students are others in dentistry and veterinarian medicine who seek advisement.

In June 1978 the A&S Advisement Center began collecting evaluations from new freshmen and transfer students. The results from these revealed the following based on a total of 150 completed questionnaires: 31% of the students were referred to A&S by another office on campus.

The following are the offices making the referrals: University College, Admissions Office, Student Health Center, Registration, Veterans Affairs, Psychology, Modern and Classical Languages, Administrative Offices, Information Booths, Career Services, Continuing Education, Student Relations, Dean of Students Office and NROTC.

A rating of outstanding was given to the A&S advisors by 67% of the students, 33% of the students gave the A&S advisors a rating of above average, 83% of the students indicated that they plan to visit the center again, and 17% are not sure if they plan to visit the center again.*

Departmental Relations

The relationship between the various A&S departments and the advisement center has continued to remain strong. During this year a Health Sciences Committee was established. There has been close contact and coordination with this group so that advisement and referrals to this committee can be made efficiently. Also, as a by product, 23 faculty from A&S departments and other colleges have volunteered for one year to see students in the health sciences for advisement. Their major focus will be how departmental courses can relate to professional schools.

Advisement for students who have decided on a major continues to be a function of the A&S departments. All departments have someone available to talk to students either on a walk-in basis or by appointment.

Projects and Committees

The center has been involved in the following activities, projects and committees: (1) Project AHEAD, (2) the Returning Students' Association and newly formed committee, (3) School Relations and Orientation, (4) advisement

*A copy of student comments is available from the Advisement Center.

of all health science students, (5) establishing, sponsoring, and attending the Student Health Science Club, (6) working with the Health Science Committee, (7) attending major functions sponsored by the medical and dental schools, (8) helping with UNM's Advisement Guide for new freshmen, (9) sponsoring our own experimental study habits course and career fair, (10) collecting data and writing reports for A&S research projects, (11) serving on three national committees, (12) serving as UNM's representative to the United Way budget committee, and (13) planning the Regional Academic Affairs Administrators Conference to be held in Albuquerque in March 1979.

Professional Committee Attendance

<u>Organization</u>	<u>Position Held</u>
Rocky Mountain Academic Affairs Administrators	President-Elect
American Personnel and Guidance Association	Directorate Body Member of American College Personnel
American Psychological Association	Member of Continuing Education Committee of Counseling Psychology

Student Load

The monthly student count is listed below for last fiscal year and this fiscal year.

	<u>1976-77</u>	<u>1977-78</u>
July	732	755
August	775	1,287
September	237	313
October	239	328
November	640	1,744
December	151	386
January	622	902
February	181	243
March	293	260
April	899	774
May	709	771
June	659	668
TOTAL	6,137	8,431

These figures show that an additional 2,294 students sought services from the center. This is a 37% increase over last year. It should also be mentioned that the office experienced approximately 9,000 phone calls during the year in which information, advice and suggestions were given to many who called.

There should be mention of Dr. Bruce Potter's Advisement Model since it is applicable to this report. The model shows several levels of advisement. It should be pointed out that in our center the advisor attempts to direct the student toward higher levels of functioning but the lower levels must also be encountered first. Many students come in for a quick question. At times it is possible to lead the student to think about viable solutions and plans for their own life style. Sometimes this approach is impossible to pursue because time is limited and other students are waiting for assistance. Under the present conditions it is impossible to determine from our statistics which students receive long term advisement and which ones receive information only. Longer advisement sessions have become a necessity as well as the fact that more offices on campus are requesting appointments for students when referring them to the center.

Staff Changes

Nova Martinez resigned for personal reasons and was replaced by Janet Farnham.

Further Activities

The center has begun thinking along the lines of offering a package program to students. Even though the package for the next year is somewhat incomplete it is a start. The students can participate in the following activities: (1) an orientation for health science students, (2) health science club meetings with vocational testing being offered, (3) an experimental study habits

workshop, (4) personal advisement, and (5) a career fair for liberal arts students.

In addition data collection will continue in the areas of study habits and A&S graduates. Advisement will be offered to A&S students on probation and suspension. The use of cooperative education programs in A&S will be looked at during the next year.

ANNUAL REPORT OF STUDENT ADVISORY COUNCIL

F. Chris Garcia

The Student Advisory Council consists of students suggested by A&S departments. The Council's primary function is to provide student input to A&S policies and to serve as liaisons between the college and the A&S student body.

Members were:

Hillary Atkin, Speech Communications
 Richard Bolton, Physics
 Kathleen Callahan, Political Science
 Fred Collatz, Psychology
 Jeffrey Kennedy, History
 Jon Lesser, Math
 Dorothy Ann Miller, Psychology
 Clifford Nomberg, Biology
 Jay D. Rosenblum, Economics

The committee met with me bi-weekly throughout the year. A number of matters were discussed including:

1. Final exam policy. The committee developed a proposal for a final exam policy. This was transmitted to Dean Wollman.
2. Closed week. The Committee agreed that, as currently practiced, closed week does not warrant its special designation. It recommended either abolishing the term and continuing business as usual during that week or preferably making it a truly closed study period of about three days. During this period no lectures or exams would be given. Classes would be held only in that the instructors would either review course material or be available for answering questions at the regularly scheduled class time and place.
3. Individual Interdisciplinary Major. The SAC was informed of the progress of the College Ad Hoc Committee on Interdisciplinary Majors as it developed its proposal. The Council made suggestions for the evolving program.
4. Registration. The members of the SAC were also concerned about registration procedures, particularly the status of closed classes. Allegedly, some students were arbitrarily allowed into them while others were excluded. The committee made some suggestions that possibly could minimize unauthorized registrations in closed sections. These were forwarded to the Registrar's office.
5. Grade Standards and Honors. The SAC expressed concern about suspected varying grading standards among colleges and the effect

of these upon the awarding of academic honors and nominations to honorary societies such as Phi Kappa Phi. The committee will investigate this matter further in the 1978-79 academic year.

Student Grievances and Standards

Complaints against faculty, usually concerning the alleged unjust assignment of grades, were brought by ten students. All the cases were resolved.

One case of violation of academic standards (cheating) was reported. This was investigated and channeled to the Student Standards Committee.

ANNUAL REPORT ON TRAVEL

Ralph D. Norman

For 1977-78 the travel budget was \$34,500, a 50% increase over the \$23,000 allocated for 1976-77. This increase provided a measure of relief from the austerity of last year and the starvation amounts of several years preceding. A new reimbursement policy was introduced: two-thirds fare for a first trip; half for a second; one-third for a third, and quite rarely, even one-quarter for a fourth. The net effect was an increase in the number of travelers. However, faculty still had to pay much of their own expenses as air fares and per diem costs spiraled.

Total disbursements for 1977-78 are given in Table XIX, which keeps the usual categories: (A) Paper Presentation; (B) Officerships; and (C) Miscellaneous, including chairing of sessions, membership on panels, invitations as discussants, etc., as well as simple attendance. (Only under special circumstances were funds allowed for the latter.) Following are the figures for trips and amounts spent for 1976-77 and 1977-78:

	1976-77				1977-78			
	No. of Trips	%	Amount Spent	%	No. of Trips	%	Amount Spent	%
Category A	124	64.9	\$13,663	64.8	159	64.9	\$21,048	62.9
Category B	15	7.9	1,317	6.3	18	7.3	1,945	5.8
Category C	52	27.2	6,091	28.9	68	27.8	10,460	31.3
TOTAL	191	100.0	\$21,071	100.0	245	100.0	\$33,454	100.0

Although the above table shows little percentage variation among the various categories between the two years, the number of trips increased from 191 to 245, or 28.3%. The latter figure is over twice that of the 1975-76 to 1976-77 increase of 13.7%. The amount spent per traveler for all trips was \$136.55, a substantial gain over the last fiscal year mean of \$110.32. Effects of the increase in support are obvious in these data. The total expenditure of \$33,454 left \$1,046 or 3.0% of the initial allocation in the reserve.

Table XIX presents the breakdown by departments among all categories. As I noted last year, it may be possible to single out departments active in paper presentation despite their varying sizes. This year Biology, Chemistry, Geology, Linguistics, and Speech Communication had high percentages of faculty engaged in such activity. Biology continues to maintain this distinction for the fifth successive year.

A budget change as substantial as that of the current year is not anticipated for 1978-79. If inflation continues its ravages, we may not see any sharp increases in trips or support per traveler.

TABLE I

STANDING AND SPECIAL COMMITTEES,
COLLEGE OF ARTS AND SCIENCES, 1977-78A&S Tenure Advisory Committee

Raymond R. MacCurdy, Chairman, Modern & Classical Languages
 Melvin L. DeFleur, Sociology
 Paul R. Kerkof, Biology
 Charlene McDermott, Philosophy
 Lewis K. Binford, Anthropology
 Roger C. Entringer, Mathematics & Statistics
 Hamlin Hill, English

A&S Promotion Advisory CommitteeHumanities:

Hamlin Hill, Chairman, English
 Matthieu Casalis, Philosophy
 Charles K. Coates, Journalism
 Donald C. Cutter, History
 Patricia Murphy, Modern & Classical Languages

Natural Sciences and Mathematics:

Roger C. Entringer, Chairman, Mathematics & Statistics
 Dolores S. Butt, Communicative Disorders
 William F. Coleman, Chemistry
 Wolfgang E. Elston, Geology
 Christopher P. Leavitt, Physics
 Frank A. Logan, Psychology
 Marvin L. Riedesel, Biology

Social Sciences:

Lewis K. Binford, Chairman, Anthropology
 Pham Chung, Economics
 Jean M. Civikly, Speech Communication
 Frieda L. Gehlen, Sociology
 Iven Bennett, Geography

A&S Graduate Committee

David T. Benedetti, Chairman, Psychology, Associate Dean, Graduate
 Studies
 Dodd H. Bogart, Sociology
 William F. Coleman, Chemistry
 Donald W. Duszynski, Biology
 James D. Finley, Physics
 Roger Friedman, Graduate Student
 Sam B. Girgus, American Studies
 Richard B. Hood, Communicative Disorders
 Alan Hudson-Edwards, Linguistics

TABLE I (Contd.)

A&S Graduate Committee (Contd.)

Gary P. Landis, Geology
 Frank A. Logan, Psychology
 Terry A. Lyle, Graduate Student
 David C. McPherson, English
 Cleve B. Moler, Mathematics & Statistics
 Brian E. O'Neil, Philosophy
 Alfred L. Parker, Economics
 Timothy G. Plax, Speech Communication
 Jonathan Porter, History
 Brian Sanderoff, Graduate Student
 Rodman E. Snead, Geography
 Karl H. Schwerin, Anthropology
 Harry P. Stumpf, Political Science
 Jack E. Tomlins, Modern & Classical Languages
 Julian E. White, Associate Dean, A&S

A&S Committee on Academic Programs

Frank Ikle, Chairman, History
 Iven Bennett, Geography
 Hamlin Hill, English
 Klaus Keil, Geology
 Lambert H. Koopmans, Mathematics & Statistics
 Karen Remmer, Political Science
 Richard F. Tomasson, Sociology

A&S Human Subjects Committee

Arthur St. George, Chairman, Sociology
 Rabbi Isaac H. Celnik, Congregation B'Nai Israel
 Carol Conrad, Psychology
 Harold Delaney, Psychology
 Timothy G. Plax, Speech Communication

A&S Student Advisory Council

Hillary Atkin, Speech Communication
 Richard Bolton, Physics
 Kathleen Callahan, Political Science & Psychology
 Jeffrey Kennedy, History
 Jon Lesser, Mathematics & Statistics
 Dorothy Ann Miller, Psychology
 Clifford Nomberg, Biology
 Fred Collatz, Biology
 Jay Rosenblum, Economics & Political Science

A&S Ad Hoc Committee for Interdisciplinary Majors

Peter Pabisch, Chairman, Modern & Classical Languages
 Robert Campbell, Geography
 Clifford Crawford, Biology
 F. Chris Garcia, Associate Dean, A&S
 Steven P. Kramer, History
 Fred G. Sturm, Philosophy

TABLE I. (Contd.)

A&S American Studies Committee

Sam B. Girgus, Chairman, American Studies
 Ernest Baughman, English
 Ferenc Szasz, History
 Harold Rhodes, Political Science
 Anne Taylor, Art Education
 Sanford Cohen, Economics
 Robert Fleming, English
 Ira Jaffe, Theatre Arts
 Jane Slaughter, History
 Marta Weigle, Anthropology & English
 Daniel Slate, Business & Administrative Sciences
 Douglas George, Art
 George Arms (Emeritus)

A&S Asian Studies Committee

Charlene McDermott, Chairman, Philosophy
 Frank Ikle, History
 Douglas Gordon, Geography
 James M. Sebring, Anthropology
 Jay Sorenson, Political Science

A&S Comparative Literature Committee

Patricia Murphy, Chairman, Modern & Classical Languages
 Alfred Rodriguez, Modern & Classical Languages
 Patrick S. Gallacher, English
 David McPherson, English
 Peter Pabisch, Modern & Classical Languages
 George F. Peters, Modern & Classical Languages
 Warren S. Smith, Modern & Classical Languages
 Jon M. Tolman, Modern & Classical Languages
 Joseph B. Zavadil, English
 Byron Lindsey, Modern & Classical Languages

A&S Linguistics Committee

Garland Bills, Chairman, Linguistics
 Fred Chreist, Sr., Communicative Disorders
 Vera John-Steiner, Elementary Education
 Bernard Spolsky, Linguistics
 Miles V. Zintz, Elementary Education
 Dean G. Brodkey, Elementary Education
 John Oller, Linguistics
 Roy G. Pickett, English
 Robert White, Secondary Education
 Carol Conrad, Psychology
 Larry Gorbet, Anthropology
 Alan Hudson-Edwards, Linguistics
 Rodney W. Young, Linguistics
 Robert W. Young, Emeritus

TABLE I. (Contd.)

A&S Russian Studies Committee

Richard Robbins, Chairman, History

Pham Chung, Economics

Richard Murphy, Geography

Jay Sorenson, Political Science

Byron Lindsey, Modern & Classical Languages

TABLE II

DEPARTMENTS AND CHAIRMEN

AMERICAN STUDIES

Sam B. Grigus

ANTHROPOLOGY

Philip K. Bock

BIOLOGY

Clifford S. Crawford

CHEMISTRY

Guido H. Daub

COMMUNICATIVE DISORDERS

Lloyd E. Lamb

ECONOMICS

Gerald J. Boyle

ENGLISH

Joseph B. Zavadil

GEOGRAPHY

Richard E. Murphy

GEOLOGY

Douglas G. Brookins

HISTORY

Gerald D. Nash

JOURNALISM

James P. Crow

LINGUISTICS

Garland D. Bills

MATHEMATICS AND STATISTICS

Richard J. Griego

MODERN & CLASSICAL LANGUAGES

Sabine R. Ulibarri

PHILOSOPHY

Howard N. Tuttle

PHYSICS AND ASTRONOMY

Victor H. Regener

POLITICAL SCIENCE

Robert J. Sickels

PSYCHOLOGY

Henry C. Ellis

SOCIOLOGY

Pedro R. David

SPEECH COMMUNICATION

R. Wayne Pace

PROGRAMS AND DIRECTORS

ASIAN STUDIES

Douglas Gordon

COMPARATIVE LITERATURE

Patricia Murphy

INTER-AMERICAN AFFAIRS

Martin C. Needler

INSTITUTE OF METEORITICS

Klaus Keil

FRESHMAN ENGLISH

Lynn Z. Bloom (LWOP Sem. I)

Michael J. Hogan (Acting Sem. I)

LATIN AMERICAN CENTER

Marshall R. Nason

IBERO-AMERICAN STUDIES

Marshall R. Nason

MAXWELL MUSEUM

J.J. Brody

PALEOCIOLOGY

Roger Y. Anderson

RUSSIAN STUDIES

Byron Lindsey

TABLE III

FACULTY PROMOTIONS, RETIREMENTS, SEPARATIONS, AND APPOINTMENTS,
TENURE AND THIRD YEAR TERM DECISIONSPromotions

To Full Professor:

Tamara Holzapfel
Colston Chandler
James D. Finley, III
Dennis M. Keeney
Archie G. Gibson
J. J. Brody
F. Chris Garcia

Modern and Classical Languages
Physics
Physics
Psychology
Mathematics and Statistics
Anthropology
Political Science

To Associate Professor:

Richard W. Holder
Robert T. Paine
Thomas M. Niemczyk
Gary P. Landis
Rodney C. Ewing
Rex G. Cates

Chemistry
Chemistry
Chemistry
Geology
Geology
Biology

Retirements

Edith Buchanan
Fred M. Chreist, Sr.
Edwin C. Hoyt
Morris S. Hendrickson

English
Communicative Disorders
Political Science
Mathematics and Statistics

Separations

Tyler Blake
Lynn Marie Zimmerman Bloom
Sandra J. Bruner
Edith Buchanan
Fred M. Chreist, Sr.
Paul C. Feingold
Douglas H. Gordon
Pramita Ghosh
John Lee Howarth
Edwin C. Hoyt
Allen V. Kneese
Jack Kolbert
John T. Lybolt
Leon Marquez
Peter S. Mellon
Ralph Wayne Pace
Manuel P. Servin
Moshe Shaked
Carl R. Stern
Paul L. Sutton

Psychology
English
Biology
English
Communicative Disorders
Speech Communication
Geography
History
Physics
Political Science
Economics
Modern and Classical Languages
Communicative Disorders
Modern and Classical Languages
Modern and Classical Languages
Speech Communication
History
Mathematics and Statistics
Philosophy
Sociology

TABLE III (contd.)

Separations (Contd.)

Wayne E. Swisher	Communicative Disorders
Joseph A. Tainter	Anthropology
Joyce Tebilocot	Philosophy
Diana Marie Warner	Sociology

New Appointments (Effective 1977-78 or 1978-79)

Anthropology:	
Robert S. Santley	Assistant Professor
Mari Lyn Salvador	Assistant Professor
Biology:	
John A. Wiens	Professor
Communicative Disorders:	
Linda Lea Riensche	Assistant Professor
Curtis Wiess	Associate Professor
Economics:	
Roger D. Norton	Professor
(starts Sem. II, 1978-79)	
Stuart Burness	Associate Professor
English:	
Richard D. Fly	Visiting Associate Professor
John G. Cowelti	Visiting Professor (Sem. I)
History:	
Frank E. Wozniak	Instructor
Richard W. Etulain	Professor/Editor NMHR (starts August 1979)
Mathematics and Statistics:	
Catherine A. Macken	Assistant Professor
Carla Wofsy	Visiting Assistant Professor
Michael Frese	Visiting Assistant Professor
Modern and Classical Languages:	
Natasha Kolchevska	Visiting Instructor
Diana Hazlett	Visiting Instructor
Philosophy:	
Haig Khatchadourian	Visiting Distinguished Professor
Helmut Girndt	Exchange Professor from Germany
Andrew J. Burgess	Assistant Professor
Political Science:	
Stephen C. Craig	Visiting Assistant Professor
Philip G. Roeder	Assistant Professor
Psychology:	
Mark A. Brecht	Assistant Professor
William C. Gordon	Assistant Professor
Sociology:	
Richard M. Coughlin	Assistant Professor

TABLE III (Contd.)

TENURE DECISION DATES

June 30, 1978

Chemistry

Robert T. Paine, Assistant Professor
Richard W. Holder, Assistant Professor

Communicative Disorders

Mary L. Bolton, Instructor

English

Lynn Z. Bloom, Associate Professor

Geology

Rodney C. Ewing, Assistant Professor

History

Peter J. Bakewell, Associate Professor

Modern and Classical Languages

Jon M. Tolman, Associate Professor

Philosophy

Fred G. Sturm, Professor

THIRD YEAR TERM DECISIONS

American Studies

Helen M. Bannan

PsychologyHarold D. Delaney
Frances S. HarnickAnthropologyLawrence G. Straus
Joseph A. TainterBiologyDouglas E. Caldwell
Rex G. Cates
Manuel C. Molles
Albert R. Thornhill
John L. TrujilloChemistryThomas E. Jones
Su-Moon ParkEnglishWilliam C. Dowling
Michael R. Fischer
Leslie M. SilkoHistoryMichael L. Conniff
Steven P. KramerJournalism

Stuart Novins

Mathematics and Statistics

Moshe Shaked

Modern and Classical Languages

Dick C. Gerdes

Physics and Astronomy

Michael Zeilik

Political ScienceThomas L. Hurley
James L. Ray

TABLE IV

1977-78 FTE BUDGETED FACULTY

<u>Department</u>	<u>Returning Faculty</u>	<u>New Faculty</u>	<u>Part-Time Instruction</u>	<u>GA's/TA's</u>
American Studies	3.46	--	--	--
Anthropology	19.84	2.50	--	3.50
Biology	27.00	3.00	--	16.00
Chemistry	20.00	--	--	14.50
Communicative Disorders	8.62	--	0.38	1.00
Economics	17.83	--	--	3.00
English	34.50	2.50	1.00	23.00
Geography	7.50	--	--	1.00
Geology	13.67	1.00	0.32	6.50
History	26.84	1.00	--	10.00
Journalism	6.58	--	0.24	--
Linguistics	2.83	--	--	--
Mathematics & Statistics	38.00	--	1.10	11.00
Modern & Classical Lang.	31.42	1.00	1.87	16.00
Philosophy	10.34	--	--	2.50
Physics & Astronomy	16.50	--	1.00	2.00 7.50
Political Science	14.80	--	--	2.00
Psychology	22.37	--	0.16	5.50
Sociology	14.12	--	--	2.00
Speech Communication	10.00	--	--	2.00
TOTAL	346.22	11.00	6.07	121.50

TABLE V
NUMBER OF STUDENTS ENROLLED
COLLEGE OF ARTS AND SCIENCES, 1969-70/1976-77

<u>Year</u>	<u>Sem. I</u>	<u>% Inc. Over Prev. Year</u>	<u>Sem. II</u>	<u>% Inc. Over Prev. Year</u>
1969-70	2,454	3.7	2,412	- 2.5
1970-71	2,541	3.5	2,518	4.4
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
Increase 1977-78 Over 1969-70	128	5.2	190	7.9

TABLE VI
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>	
1969-70	368,479	234,288	63.9
1970-71	425,189	267,234	62.9
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
Decrease 1977-78 Over 1976-77	-2.25% 10,979	-4.30% 12,024	
Increase 1977-78 Over 1969-70	29.24% 107,750	14.30% 33,498	

TABLE VII
STUDENT CREDIT HOURS BY DEPARTMENTS

Department	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	% Increase 1970-1977
American Stud.	--	1,222	2,277	5,455	5,970	3,002	3,158	2,302	--
Anthropology	20,543	19,616	18,848	15,983	17,156	15,489	12,225	10,861	-47.1
Biology	19,816	23,855	23,766	22,449	25,872	24,565	23,278	21,863	10.3
Chemistry	13,797	16,805	18,923	16,338	19,810	18,249	19,397	18,143	31.5
Comm. Disorders	--	--	2,116	2,243	2,531	2,758	2,928	2,601	--
Economics	11,135	10,369	10,950	10,483	12,908	13,045	12,168	13,899	24.8
English	41,601	38,604	34,770	28,392	32,564	30,478	31,370	29,128	-30.0
Geography	5,216	5,664	4,912	4,960	5,838	6,008	5,545	5,410	3.7
Geology	10,232	10,072	10,000	9,332	10,028	8,728	8,797	8,154	-20.3
History	22,986	22,725	21,969	19,636	22,676	21,740	19,745	19,960	-13.2
Journalism	2,272	2,474	2,661	3,109	3,603	3,584	3,425	3,016	32.7
Linguistics	--	--	--	1,460	1,921	1,986	1,615	1,304	--
Math & Stat.	25,138	25,973	27,172	25,620	32,154	32,043	35,167	35,346	40.6
M&CL	23,675	22,036	20,215	17,257	22,917	23,985	21,491	19,648	-17.0
Philosophy	10,260	11,619	10,207	9,287	11,020	9,631	7,926	5,922	-42.3
Phys. & Astr.	9,155	11,210	11,860	11,446	13,334	12,847	11,842	11,731	28.1
Political Sci.	10,265	9,790	10,844	10,506	11,659	10,876	10,391	10,621	3.5
Psychology	23,092	23,440	26,321	25,038	26,804	24,832	24,422	24,273	5.1
Sociology	10,877	13,383	12,549	10,055	12,170	11,182	13,778	15,155	39.3
Speech Comm.	7,354	10,848	8,217	7,929	9,886	10,523	11,142	8,328	13.2
TOTAL	267,324	279,705	278,577	256,979	300,821	285,551	279,810	267,665*	0.1

*A disparity appears in College total SCH in Tables V and VI due to late additions. Data for tables are from 21-day report.

TABLE VIII

DEGREES AWARDED, COLLEGE OF ARTS AND SCIENCES

Year	Bachelor's Degrees		Advanced Degrees					
	No. of Degrees	% Inc. Over Previous Yr.	Master's (a)		Doctor's		Total	
			No.	% Inc.	No.	% Inc.	No.	% Inc.
1971	592	- 1.5	171	2.4	73	1.4	244	2.1
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	-13.4	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
7-Year Increase	70	11.8	4	- 2.3	5	6.8	9	- 3.7

(a) These figures do not include Master of Arts in Teaching and Master of Education in Science degrees.

TABLE IX

DEGREES AWARDED, A&S AND UNM, 1968 AND 1978

College	Bachelor's Degrees			Advanced Degrees		
	1968	1978	% Inc.	1968	1978	% Inc.
Arts and Sciences	511	662	29.5	218	235	7.8
B.U.S.	--	389	--	--	--	--
Other Colleges*	774	992	28.2	352	646	83.5
UNM Total	1,285	2,043	59.0	570	881	54.6

*Excludes Law and Medicine.

TABLE X

DEGREES AWARDED, BY DEPARTMENT, 1975-78¹

Department	Bachelor's				Master's				Doctoral			
	1975	1976	1977	1978	1975	1976	1977	1978	1975	1976	1977	1978
American St.**	--	--	--	--	--	--	--	--	4	10	5	9
Anthropology	84	51	52	47	5	8	19	15	3	5	4	4
Art*	10	5	5	7	--	--	--	28	--	--	--	--
Biology	117	101	76	89	19	12	26	15	5	4	5	4
Chemistry	43	38	28	26	7	7	4	10	2	8	4	9
Comm. Disorders	10	6	15	16	20	20	21	17	--	--	--	--
Comp. Literature	--	--	1	--	--	--	2	2	--	--	--	--
Economics	35	35	34	50	3	3	6	5	2	4	3	2
Econ.-Philosophy	2	--	--	--	--	--	--	--	--	--	--	--
English	67	54	37	50	10	12	4	12	9	11	9	4
English-Phil.	2	8	2	3	--	--	--	--	--	--	--	--
Geography	21	14	9	12	3	1	2	2	--	--	2	--
Geology	15	16	17	15	11	10	7	13	2	3	3	1
History	52	52	43	46	4	6	8	3	11	6	10	6
Ibero-Amer. St.**	--	--	--	--	--	--	--	--	1	2	--	--
Journalism	36	27	31	30	--	--	--	--	--	--	--	--
Linguistics	2	2	2	--	--	--	1	--	--	--	--	--
Lat. Amer. St.	7	6	6	2	10	9	7	9	--	--	7	--
Math & Stat.	28	25	30	20	3	7	7	4	5	5	3	6
Med. Tech.	8	12	12	1	--	--	1	--	--	--	--	--
M&CL	40	42	28	35	4	8	8	5	7	3	--	6
Philosophy	7	10	3	3	5	3	5	11	1	2	--	1
Physics & Astr.	5	3	6	10	2	2	3	6	7	2	3	8
Pol. Science	58	62	58	58	4	1	5	6	1	2	1	1
Psychology	134	106	79	82	10	8	10	14	4	7	9	7
Russian St.	1	1	1	1	--	--	--	--	--	--	--	--
Sociology	23	24	17	15	4	6	1	3	--	--	1	--
Speech Comm.	15	17	17	20	4	18	12	13	--	--	--	--
Home Econ.*	7	--	2	1	--	--	--	--	--	--	--	--
M.A.T.	--	--	--	--	16	13	12	4	--	--	--	--
TOTAL	829	717	611	639	144	141	171	197	64	74	69	68

¹ Includes summer, fall, and spring graduates.

*Not departments of the College of Arts and Sciences, but major or minor is allowed under certain conditions.

**Interdisciplinary programs at the doctoral level.

TABLE XI

BACHELOR DEGREES AWARDED BY COLLEGE OF EDUCATION
WITH A&S MAJORS, 1973-78

<u>Departments</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Anthropology	0	0	0	0	0	0
Biology	2	0	0	3	0	0
Chemistry	1	1	0	0	0	0
English	13	14	6	4	10	8
Geography	1	0	0	0	0	0
Geology	0	0	0	0	0	0
History	16	7	7	3	6	2
Journalism	0	0	0	0	0	0
Mathematics & Statistics	9	9	5	1	1	0
Modern & Classical Lang.	14	19	5	5	4	3
Philosophy	1	0	0	0	0	0
Political Science	1	0	0	0	0	0
Psychology	2	2	1	2	1	0
Sociology	1	1	1	1	0	0
Speech Communications	5	4	1	1	1	0
Communication Arts	10	8	2	2	3	3
Social Studies Composite	20	12	6	7	5	4
Science Composite	10	8	0	5	0	0
TOTAL	106	85	34	34	31	20

TABLE XII

ACADEMIC PROBATIONS, SUSPENSIONS, AND RELEASES
COLLEGE OF ARTS AND SCIENCES

	1973-1974		1974-1975		1975-1976		1976-1977		1977-1978	
	No.	%	No.	%	No.	%	No.	%	No.	%
Semester I										
On Probation	74	2.6	90	3.4	81	3.0	81	3.0	262	10.1
Suspended	14	0.5	31	1.2	37	1.4	38	1.4	59	2.3
Released from Probation	43	1.5	58	2.2	64	2.4	74	2.8	52	2.0
Semester II										
On Probation	62	2.2	54	2.0	58	2.1	78	2.9	209	8.0
Suspended	20	0.7	31	1.1	47	1.7	46	1.7	64	2.5
Released from Probation	53	1.9	74	2.8	70	2.5	71	2.6	58	2.2

Number of Students enrolled in Arts and Sciences:

Semester I, 1977-78

2,582

Semester II, 1977-78

2,602

TABLE XIII

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	1974-1975				1975-1976			
	Sem. I		Sem. II		Sem. I		Sem. II	
	No.	%	No.	%	No.	%	No.	%
4.00	64	2.4	71	2.7	53	2.0	48	1.7
3.50-3.99	172	6.7	158	6.1	160	6.0	156	5.7
3.00-3.49	249	10.1	262	10.5	232	8.6	247	9.0
TOTAL	485	19.2	491	19.3	445	16.6	451	16.4
	1976-1977				1977-1978			
	Sem. I		Sem. II		Sem. I		Sem. II	
	No.	%	No.	%	No.	%	No.	%
4.00	49	1.8	51	1.9	41	1.6	38	1.5
3.50-3.99	138	5.2	156	5.7	131	5.1	129	5.0
3.00-3.49	199	7.5	210	7.7	189	7.3	204	7.8
TOTAL	386	14.5	417	15.2	361	14.0	371	14.3

NOTE: % represents the percentage of the total Arts and Sciences enrollment for the semester indicated.

TABLE XIV

DEGREES GRANTED WITH HONORS, 1977-78

Honors in General Studies:

Magna Cum Laude	2
Cum Laude	6
Summa Cum Laude	2

10

Departmental Honors:

Chemistry	2
Economics	3
English	2
Geology	1
Modern & Classical Languages	1
Physics	7
Political Science	4
Psychology	6

26

Elected to Phi Beta Kappa:

Information not available

Nominated to Phi Kappa Phi:

Seniors

74

74

TABLE XV
GRANTS TO A&S FACULTY BY RESEARCH ALLOCATIONS COMMITTEE
1977-78

<u>Department</u>	<u>Number of Grants</u>	<u>Total Money</u>	<u>Average Grant</u>
American Studies	3	\$ 1,570	\$ 523
Anthropology	7	3,092	442
Biology	8	5,838	730
Chemistry	9	8,081	898
Economics	2	215	108
English	4	1,865	466
Geography	2	650	325
Geology	5	1,690	338
History	12	7,064	589
Modern & Classical Lang.	3	3,331	1,110
Philosophy	2	1,087	544
Physics and Astronomy	1	675	675
Political Science	1	600	600
Psychology	16	9,465	592
Sociology	5	1,455	291
Speech Communication	6	2,740	457
TOTAL	86	\$49,418	\$ 575

TABLE XVI
NEW RESEARCH AND TRAINING GRANTS

Department	1967-68 (\$000)	1977-78 (\$000)	1977-78	
			Number of Faculty	Number of Grants
American Studies	0.0	0.0	--	--
Anthropology	47.6	162.4	5	6
Biology	46.6	534.1	16	27
Chemistry	275.7	358.4	14	17
Communicative Disorders	0.0	47.0	1	1
Economics	129.5	504.4	8	15
English	0.0	22.6	1	1
Geography	0.0	89.3	2	2
Geology	49.9	374.1	7	17
History	53.7	0.0	--	--
Journalism	0.0	0.0	--	--
Linguistics	0.0	0.0	--	--
Mathematics	143.7	120.0	2	3
Modern & Classical Lang.	0.0	5.3	1	1
Philosophy	0.0	0.0	--	--
Physics & Astronomy	664.0	406.5	7	9
Political Science	0.0	50.0	1	2
Psychology	208.1	199.5	6	7
Sociology	0.0	46.1	1	1
Speech Communication	0.0	7.0	1	1
Sub-Total	1,618.8	2,926.7	73	110
Contract Archeology	0.0	299.0	--	36
Inter-American Affairs	0.0	0.0	--	--
Latin American Center	0.0	7.9	1	1
Meteoritics	1.1	218.0	1	6
Sub-Total	1.1	524.9	2	43
TOTAL	1,619.9	3,451.6	75	153

TABLE XVII

VISITING LECTURERS, 1977-78

<u>Date</u>	<u>Name, Title & Address</u>	<u>Department</u>	<u>Purpose</u>
11/28/77	Dr. Nonie Carol Murphy Professor of Speech New York University, NY	Speech Communication	Lecture, Workshop
10/27-29/77	Reception for visitors & participants in the Simposio Internacional	Modern and Classical Languages	Symposium
10/31/77	John H. Elliott The Institute for Advance Studies Princeton, NJ	History	Lecture
11/11/77	Luncheon for the Journal- ism Accreditation team with the Journalism faculty	Journalism	Luncheon
11/11/77	Helmut E. Gerber Professor Arizona State University Phoenix, Arizona	English	Lecture: Late Victorian/Early Modern English Literature
10/18/77	Colin Williamson Lecturer at Oxford and Tutorial Fellow at Jesus College	English	Lecture on Elizabethan Literature
1/1/78	Thomas Rogers Professor Pennsylvania State Univ.	English	Lecture & work- shops with writing classes
2/2/78	B.K. Matilal Professor All Souls College Oxford OX1 4AL, England	Philosophy	Lecture on Buddhist & Hindu epistemology and logic and mysticism
2/15/78	Rhomas Sebeok Distinguished Professor of Linguistics Indiana University	English	Lecture & workshop
3/15/78	Jonathan Culler Professor of English and Comparative Literature Cornell University	English	Lecture & workshop with graduate students

TABLE XVII (Contd.)

<u>Date</u>	<u>Name, Title & Address</u>	<u>Department</u>	<u>Purpose</u>
2/21/78	Alexander Cassella Carnegie Foundation Formerly with the UN Refugee Commission	Geography	Lecture on an analysis of the Mainland Chinese educational system & its current problems
3/5/78	Jean-Philippe Rigaud Professor & Director of Prehistoric Antiquities of Southwestern France	Anthropology	Lecture & workshop
3/3/78	Jay Gurian Professor of American St. University of Hawaii	American Studies	Lecture
3/10/78	Alistair Hennessy Professor Warwick University England	Political Science	Lecture on the Muralists of the Mexican Revolution
10/4-5/77	Rolando Mellafe Chilean Historian University of Wisconsin	History	Lecture on Comparative Slavery
4/3/78	Gerhard Hoffman German Scholar with a specialization in Eugene O'Neill	English	Lecture & workshop "A Foreign Perspec- tive on Recent American Literature"

TABLE XVIII

SUMMER SESSION DATA, 1977 AND 1978

Department	Final 1977 Figures				Preliminary 1978 Figures			
	Enrollment		Allocation		Enrollment		Allocation	
	SCH	%	\$	%	SCH	%	\$	%
American St.	159	0.83	3,600	1.00	199	1.10	4,352	1.17
Anthropology	546	2.85	17,656	4.90	487	2.70	17,016	4.58
Biology	1,111	5.81	25,919	7.20	1,318	7.31	27,280	7.34
Chemistry	1,536	8.03	22,997	6.39	1,167	6.47	23,498	6.33
Comm. Dis.	187	0.98	4,600	1.28	202	1.12	4,062	1.09
Economics	940	4.91	14,335	3.98	1,085	6.02	13,824	3.72
English	2,056	10.75	45,413	12.61	1,892	10.49	45,949	12.37
Geography	371	1.94	9,018	2.51	461	2.56	8,978	2.42
Geology	529	2.77	10,680	2.97	431	2.39	10,448	2.81
History	1,623	8.48	23,000	6.39	1,484	8.23	23,872	6.43
Journalism	224	1.17	6,234	1.73	193	1.07	6,830	1.84
Linguistics	180	0.94	3,379	0.94	105	0.58	4,050	1.09
Mathematics	3,276	17.13	32,649	9.07	3,195	17.72	33,475	9.01
M&CL	1,793	9.37	45,007	12.50	1,493	8.28	50,321	13.55
Philosophy	365	1.91	10,510	2.92	338	1.87	9,743	2.62
Physics	561	2.93	14,595	4.05	529	2.93	13,874	3.73
Pol. Science	478	2.50	9,571	2.66	586	3.25	11,584	3.12
Psychology	1,277	6.68	18,236	5.07	1,472	8.16	19,944	5.37
Sociology	1,194	6.24	13,104	3.64	820	4.55	11,221	3.02
Speech Comm.	722	3.77	11,075	3.08	578	3.20	14,743	3.97
IAA	--	--	200	0.06	--	--	200	0.05
Foreign Prog.	--	--	11,000	3.06	--	--	11,000	2.96
Res. Stipends	--	--	4,800	1.33	--	--	4,800	1.29
Contingency	--	--	2,422	0.67	--	--	436	0.12
TOTAL	19,128	99.99	360,000	100.01	18,035	100.00	371,500	100.00

TABLE XIX

A&S TRAVEL DISBURSEMENTS

Department	Paper Presentation		Officer Participation		Miscellaneous Attendance	
	No. of Trips	\$	No. of Trips	\$	No. of Trips	\$
American Stud.	1	255.00	--	--	1	166.50
Anthropology	10	1,214.70	1	113.34	3	352.68
Biology	25	3,477.77	--	--	5	738.31
Chemistry	23	2,091.55	--	--	1	108.00
Comm. Dis.	2	169.98	--	--	2	301.00
Economics	7	1,462.11	--	--	3	668.01
English	11	1,270.38	3	159.52	2	102.16
Geography	2	296.00	--	--	--	--
Geology	8	1,309.01	--	--	2	387.00
History	9	900.01	6	690.34	9	955.86
IAA	--	--	--	--	1	113.34
Journalism	--	--	--	--	--	--
Linguistics	5	565.14	--	--	1	271.40
Mathematics	10	1,836.65	--	--	9	1,580.69
M&CL	7	886.18	1	155.34	11	1,734.35
Philosophy	3	552.00	1	174.00	1	129.34
Physics	5	843.00	--	--	2	200.00
Pol. Science	4	518.68	--	--	3	330.67
Psychology	12	1,437.55	2	357.00	5	584.40
Sociology	6	983.68	1	109.00	2	265.00
Speech Comm.	9	979.03	2	186.67	5	1,471.68
TOTAL	159	21,048.42	18	1,945.21	68	10,460.39

The Report of the Department of American Studies
July 1, 1977 - June 30, 1978
Sam B. Girgus, Chairman

The approval of a major for undergraduates was the most important development in the past year and a decisive event in the department's history. After more than thirty years of offering the doctoral degree and three years of offering a minor concentration, American Studies took this step to intensify its involvement with undergraduate study. The major will serve the needs of increasing numbers of students who want an interdisciplinary interdepartmental concentration dealing with the study of American life and thought. The new program will enhance the already considerable national reputation of American Studies at the University of New Mexico. The department plans not only to balance its educational efforts at the graduate and undergraduate levels but also to work towards a harmonious relationship between those programs for their mutual enrichment.

Doctoral students in this department were given valuable assistance by Professor Hamlin Hill in his first year of a joint appointment with the English Department. Under the direction of the chairman, Professor Sam Girgus, graduate students were encouraged to strengthen the focus and interdisciplinary nature of their programs primarily by selection of committees that include some of the university's best scholars. The core faculty in American Studies continue

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their increased production of research and scholarship, which is documented in the record of publications and activities given in the following pages.

1977-78 was Professor Helen Bannan's third year with American Studies. Following strong recommendations from the American Studies Faculty, the chairman and the core faculty, along with the endorsement of the college, she was reappointed for a second three year term. Her specializations in the important areas of Native American and women studies along with her teaching performance and service on committees were cited.

Her article, "'I Remember Mama': Immigrant Mothers in the Works of Their Daughters," has been accepted for publication in the November, 1978 issue of Women's Studies; that special issue on Mothers and Daughters will be republished as a book. Another article, "The Idea of Civilization and American Indian Policy Reformers in the 1880's," is under consideration for publication. Dr. Bannan continues to abstract articles in Quest: A Feminist Quarterly for the Abstracts of Popular Culture. Two book reviews are forthcoming, one of Then Badger Said This by Elizabeth Cook-Lynn in La Confluencia, and the other of Kathryn Weibel's Mirror Mirror: Images of Women Reflected in Popular Culture for Folklore Women's Communication. She is beginning research on a study of field matrons in the Bureau of Indian Affairs.

In June-July, 1977 Professor Bannan participated in a Modern Language Association summer seminar on Native American Literature in Flagstaff, Arizona. Dr. Bannan spoke on

"American Women's Rights Efforts Before 1920" for a Regional Women and the Law Conference held in Albuquerque last October. She continues to serve as second vice president of the Rocky Mountain American Studies Association and attended their conference this spring in Golden, Colorado.

Professor Bannan taught and developed four new courses this year: "The Frontier in American Thought," spring 1978; "Women's Experience in the United States: Women in Southwest Multicultural Society," team-taught with Junella Haynes in spring; "Immigrant Women" and a graduate seminar on "Interdisciplinary Feminist Research," both in the fall semester.

Dr. Bannan continued her work as the American Studies undergraduate advisor. She also continued to serve on these committees: Women Studies, General Honors Council, Native American Studies Advisory Board. Since January, 1978 she has been co-chair of the Faculty and Professional Women's Association.

This summer the Faculty Research Allocations Committee is funding Dr. Charles Biebel's trip to do final research in the Congregational Library in Boston and the archives at the Sisters of Charity Mother House in Cincinnati on the topic of "Education and Culture - Albuquerque 1875-1895." In the summer of 1977 he did research in the archives of Harvard, Columbia and New York Universities. When he is on sabbatical leave in the fall of 1978 he will complete this work in the Eisenhower, Kennedy and Johnson presidential libraries.

To complement his interests in national social and cul-

tural phenomena, Dr. Biebel has been involved in local historical studies. His research on the results of rapid growth in the City of Albuquerque from 1940-1975 culminated in an hour long television film documentary, "The Edge of the Dream," which was telecast August 24, 1977 on KNME-TV. The program was written and produced with William Baurecht, a graduate student. This work was supported by a New Mexico Humanities Council Project Grant of \$1,580 for fall, 1977. His research in preceding years on this topic was also supported by \$35,000 in grants from that organization. The documentary has been purchased for permanent showing by the Museum of Albuquerque, the Albuquerque Public Schools and the City of Albuquerque. A half-hour radio tape is currently being produced for the New Mexico Humanities Council.

Professor Biebel published an article, "Documenting Cultural Change--Albuquerque 1875-1975," in New America: A Review, volume 3, number 1 (Spring, 1977), pp. 62-75, written in collaboration with William Baurecht. Another article, "Higher Education and Old Professionalism," appeared in History of Education Quarterly, volume 17 (Fall, 1977), pp. 319-326. An article, "The West Mesa Airport - Case Study in the Complexity of Governance," is in circulation while he is revising another work, "Modernization and Public Education, The Politics of Influence 1945-1957."

Since the fall of 1977 Professor Biebel has been an editorial reader for History of Education Quarterly, and he was a media consultant for the New Mexico Humanities Council

Project on Illegal Aliens. He continues to serve on the Continuing Education Committee and the Native American Studies Advisory Board, and he is faculty advisor for New America. He is also a curriculum and environmental consultant for Monte Vista Elementary School, Albuquerque.

Professor Sam Girgus completed and revised his book, The Law of the Heart, which has been accepted by the University of Texas Press. His article, "The Mechanical Mind: Thoreau and McLuhan on Freedom, Technology and the Media," was published in the Thoreau Journal Quarterly, volume 9 (October, 1977), pp. 3-9. He collaborated with Hamlin Hill and Joel Jones in editing An Issue in Honor of George Arms, American Literary Realism 1870-1910, number 10 (Summer, 1977). He also contributed an introduction, "Years of His Youth: On George Arms and the 'Radicalism' of Elms" to that issue. The Midwest Quarterly published his article on "The Perverted Self in American Literature and Culture" in volume 19 (Winter, 1978), pp. 160-175. Another article, "Years of His Youth: On George Arms and American Studies," appeared in the summer-fall 1977 issue of New America, volume 3, number 2, pp. 46-47. The New England Quarterly has accepted his work, "Conscience in Connecticut: Civilization and Its Discontents in Twain's Camelot," for publication in 1978. Two other articles, "Thoreau, Twain and the Politics of Liberation," and "Masculinity in America: On Leonard Kriegel at New Mexico," are in circulation.

At the National American Studies Association Convention in October, 1977 at Boston, Massachusetts, he read his paper,

"Beyond the Diver Complex: Toward a New Individualism in F. Scott Fitzgerald."

In spring 1978, Professor Girgus developed and taught an experimental new course, "America on Film," with Edward Mahoney, a graduate teaching assistant. Dr. Girgus was awarded a grant of \$400 from the Greater UNM Fund to support film rental expenses. There was also some support from the Division of Continuing Education which co-sponsored that class. Dr. Girgus and Mr. Mahoney were interviewed on "U.N.M. Voices" over KNME-TV on February 3 concerning the new course. Professor Girgus is planning and developing another new course for the fall, "The Jewish Experience in the United States."

In December, 1977 Dr. Girgus was appointed by President Davis to the University Ad Hoc Committee on Rhodes Scholarships. He is a member of the Arts and Sciences Graduate Committee and serves as chairman of the Arts and Sciences Ad Hoc Committee on the Humanities.

Last fall Professor Girgus established a Student Learning Service, which enabled students in American culture studies courses throughout the college to obtain tutoring from this department's graduate students.

1977-78 was the first year of Professor Hamlin Hill's joint appointment in English and American Studies. American Humor: From Poor Richard to Doonesbury, the book he co-authored with Walter Blair, was published in the spring of 1978 by the Oxford University Press and has been widely acclaimed. Dr. Hill's article, "Black Humor and the Mass Audience," appeared

in American Humor: Essays Presented to John C. Gerber, published by the Arete Press in 1977, pp. 1-11. An "Introduction" to Thomas Tenney was published in Mark Twain: A Reference Guide by G. K. Hall, 1977, pp. ix-x. Dr. Hill also was guest co-editor of A George Arms Issue of American Literary Realism 1870-1910, volume 10 (Summer, 1977). He is directing a Seminar in Residence for College Teachers funded by a grant of \$22,635 from the National Endowment for the Humanities for April, 1978 to June, 1979. Because of his NEH grant, American Studies will be able to work with the English Department in the fall to jointly sponsor a visiting scholar of national repute who will teach subjects relating to both American culture and literary studies. Professor Hill has brought to the department a traditional approach to American Studies and his recognized expertise in American literary realism, humor and popular culture.

Joel Jones, Assistant Provost, continues his interest and service to American Studies through a joint appointment. In 1977 he was appointed to the National Board of Consultants of the National Endowment for the Humanities. In this capacity he participated in three Workshops on Critical Issues in the Humanities, jointly sponsored by the NEH and the Association of American Colleges. He was keynote speaker at one of the workshops.

In addition to his considerable administrative responsibilities, Dr. Jones continues to write and publish scholarly works such as his article, "Marshall McLuhan's Rear-view

Mirror: Information Systems and Innovation," in The Managerial Revolution in Higher Education, edited by Richard Mann, 1977, pp. 673-674. For the Spirit of a Great University, published by this university in 1977 as a Retirement Monograph for Chester Travelstead, he wrote an introduction, "A Teacher in Spirit." Along with Sam Girgus and Hamlin Hill he was guest editor of the summer 1977 Issue in Honor of George Arms of American Literary Realism 1870-1910, volume 10, in which his article, "Scholarship and Synthesis," appeared on pp. 229-231. Forthcoming is his review of Robert Spiller's Milestones in American Literary History in American Literary History. His article on "Walter Havinghurst" will appear in the Bibliographical Guide to Midwestern Literature, edited by Gerald Nemanic and to be published by University of Iowa Press. Another work, "The Long Reach of the Past: Time and Place in the Writing of Walter Havinghurst," will appear in the Ohioana Quarterly.

Professor Jones also serves on the Board of Editors of American Literary Realism 1870-1910, and he continues as president of the Southwestern Regional Popular Culture Association.

The proposal for a major, the recommendation for Professor Bannan's rehiring, and other departmental policy decisions were given assistance by the American Studies Faculty Committee. Members are: George Arms (Emeritus), Ernest Baughman, Robert Campbell, Sanford Cohen, Douglas George, Hamlin Hill, Ira Jaffe, Joel Jones, Harold Rhodes, M. Jane Slaughter, Ferenc Szasz, Anne Taylor and M. Martha Weigle. Dr. Howard Rabinowitz of

the History Department and Dr. Peter White of English were appointed to their first three-year terms. Professors Campbell and Szasz resigned from the committee. Professors Weigle and Slaughter served on a sub-committee concerned with evaluation of Dr. Bannan for rehiring. Professor George once again made a valuable contribution to the department by team-teaching "American Art in Context," a graduate seminar which he helped to develop, with Dr. Girgus.

At the end of the spring semester Professor Gail Baker resigned from her position at this university.

Visiting scholars this year were Professor Alan Trachtenberg of Yale University, who lectured in the fall on "The Brooklyn Bridge: The Origins of American Studies," and Professor Jay Gurian, University of Hawaii at Manoa, who came in the spring to speak on "A White Professor in the Native American World." For its graduate seminar this summer American Studies has recruited Professor M. Martha Weigle of English and Anthropology to teach on the topic of "Folklore in America."

In planning and proposing the new major the chairman utilized his experience as director of a highly successful undergraduate program in American Studies at the University of Alabama. As with the graduate program here, Dr. Girgus emphasized balancing freedom and innovation with structure. To insure a high level of student commitment and achievement, the new program is structured and defined to be rigorous and demanding as well as flexible. Forty-eight hours of coursework are required, and almost all of them will be taken in depart-

ments throughout the college which teach subjects related to American culture studies. An introductory course in American Studies is required. Students will be encouraged to minor or double major in a discipline that improves their abilities to study American culture. Students must devise an advanced program of study in the major, applying previous and current studies to a particular theme or subject in American culture. A required senior seminar completes the program by encouraging a culminating interdisciplinary learning experience, and students will be encouraged to produce a final project or work comparable to an honors thesis.

Undergraduate course offerings continue to be expanded and improved. The increasing emphasis on media studies resulted in a new course, "America on Film," which was developed and taught by Professor Girgus and a graduate student, Edward Mahoney. A \$400 allocation from the Greater UNM Fund and the co-sponsorship of the Division of Continuing Education contributed to the success of the new course, which was given a permanent listing.

The new "Internship" course is expected to be well used to link students' academic pursuits with the interests of the community. Another new class, "The Frontier in American Thought," increased the opportunities for regional study which is such a popular specialization in American Studies. Other new courses give evidence of this department's continued support for women and ethnic studies as well as for regional and multicultural topics. They are "The Indian in American

Popular Culture," "Immigrant Women," "Women's Experience in the U.S.: Southwest Multicultural Society." New subjects to be taught in the coming year are "Creative Women of the Southwest," "Literature of Women in the Southwest," and "The Jewish Experience in the United States."

Nine graduate students completed doctoral work in the 1977-78 academic year. The students, their dissertation topics and the dissertation directors are listed below.

Ruth Ann Banes	THE SELF IN CONTEXT: A HISTORY OF AMERICAN AUTOBIOGRAPHY (Joel Jones)
John A. Cantwell	OBSOLESCENCE AND THE AMERICAN KNOWLEDGE WORKER/THE CONTEXT OF EMPLOYER-SPONSORED CONTINUING EDUCATION PROGRAMS (Charles Biebel)
Krystan V. Douglas	BROADWAY THEATRE BETWEEN WORLD WARS AS A REFLECTION OF AMERICAN SOCIAL VALUES (Charles Biebel)
Hollis Elkins	REDEFINING WOMEN (Joel Jones)
John D. Hussey	SYNTHESIS IN HEMINGWAY: FROM DEEP PESSIMISM TOWARD HOPE IN SELECTED HEMINGWAY SHORT STORIES AND NOVELS (Paul Schmidt)
Suzann M. Owings	DELPHI SURVEY OF ORGANIZATIONAL FUTURISTS ON ISSUES AND TRENDS AFFECTING ORGANIZATIONAL APPEARANCE IN 2000 (Howard Finston)
Leslie Paul Page III	A SYSTEMS ANALYSIS OF ALBUQUERQUE'S RESCUE SERVICE (Robert Campbell)
Catherine B. Stetson	EZRA POUND'S CANTOS: THE TALE OF THE TRIBE (Hugh Wittemeyer)
Henry Tschopp	SIX RADIO COMEDIANS: AN INTRODUCTION AND INVESTIGATIVE STUDY (Ernest Baughman)

From a total of twenty-one applicants who completed the requirements for applying, twelve candidates were admitted to the American Studies doctoral program this spring. The department's low resources for financial assistance continue to make it difficult to attract some of the well qualified students who express interest in this program. Teaching assistantships in the English Department remain the major source of assistance. Many of our students have been successful in finding other sources: Pat D'Andrea's Title VII Fellowship for Bilingual Multicultural Education was renewed while Rina Swentzell and Ansellmo Arellano have renewed support from Ford Foundation grants. Father Lawrence Burke and Jeanne Whitehouse received Graduate Tuition Fellowships for the coming year. Katherine Bailey and David Kammer had these fellowships for the 1977-78 year. Tobias Duran and Gearld Hobson continued to serve as coordinators in the Chicano Studies and Native American Studies Programs respectively. D. C. Cole taught two courses per semester for Native American Studies while Kyle Ferster Fiore and Susan Kilgore taught Honors Seminars. Mr. Hobson also taught a new course for the department, "The Indian in American Popular Culture." Rina Swentzell of Santa Clara Pueblo and Henrietta Whiteman, a newly admitted Cheyenne woman, were both nominated for Title VII Fellowships by American Studies.

The chairman, supported by the American Studies Faculty Committee, encouraged American Studies graduate students to contribute some of their interdisciplinary knowledge and teaching skills through the establishment of a Student Learning

Service which would provide tutoring for undergraduates who were referred by members of the American Studies Faculty Committee. Ed Mahoney was one of the doctoral students who did tutoring through this new service. A teaching assistant in English, Mr. Mahoney was cited for his outstanding contributions to the Freshman English Program by its director, Professor Lynn Bloom. He further distinguished his teaching career by working with Dr. Girgus to develop and teach the "America on Film" course, and he will continue as teaching assistant in that course next year.

James Robertson and Harriet Bloom represented this department in Europe as Fulbright Junior Lecturers teaching American Studies at the Universities of Barcelona, Spain and Dijon, France. This spring Jerry W. Henderson was nominated for and awarded membership in Phi Kappa Phi Honorary Society.

American Studies graduate students continue their activities in publication. Gearld Hobson edited The Remembered Earth: An Anthology of Contemporary Native American Literature which will be published this summer by Red Earth Press. In spring 1978 Harper and Row published Jeanne Whitehouse's book for children, I Have a Sister. Pat D'Andrea continues as co-editor of the regional multicultural magazine, La Confluencia. American Studies graduate students on the New America staff devoted lengthy efforts to publishing a special issue in honor of Professor George Arms. They include Marta Field, Ed Mahoney, Alice Kisch, Gearld Hobson, Pat D'Andrea, James Robertson. Grants from the Coordinating Council of Literary Magazines,

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the New Mexico Arts Commission, and the UNM Graduate Student Association have funded the publication of this magazine. Ansellmo Arellano has been writing a book on the history and folklore of the Chama Valley which will be published by the Chama Valley School District. He is also working on the production of a videotape documentary on that subject.

Doctoral students were also active participants at various conferences. Nancy Theriot attended the National American Studies Association Convention in Boston in October, 1977 to present a paper on Margaret Fuller. At the same convention Pauline Eisenstadt gave a paper on the community of Corrales. Regina Blackburn read her paper on the biographical writings of African-American women at the Minority Women and Ethnicity Conference at La Crosse, Wisconsin in April. At the Rocky Mountain American Studies Conference this spring in Golden, Colorado, Pat D'Andrea co-presented a workshop on energy issues in the Four Corners region.

Among graduate students who use their skills to serve the community as well as to obtain financial support are Rina Swentzell and Pauline Eisenstadt. Ms. Swentzell is Educational Architect for the Albuquerque Indian School, and Ms. Eisenstadt remains on leave to serve as executive director of New Mexico Energy Consumers, Inc. Jeanne Whitehouse travels to Arizona to teach Navajo students who take courses through the university's field-based teacher education program. Winona Garmhausen continues to direct the art program at the College of Santa Fe.

The Report of the Department of Anthropology

July 1, 1977 - June 30, 1978

Philip K. Bock, Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year, 1977-78

1) Field School - Survey and partial excavation of a large Pueblo III ruin on public lands near Magdalena was begun by a group under the direction of Dr. Joseph Tainter. As part of this summer course, 23 students from UNM and other colleges in the U.S. participated in the work, which also included instruction in field and analytic techniques and visits to related sites.

2) Other Summer Courses - During the 1977 summer session, the following courses were also taught on the main campus:

<u>Course and No.</u>	<u>Instructor</u>	<u>Enrollment</u>
ANTH 110, Language, Culture and Man	Mr. Hamilton	24
ANTH 150, Primates and Fossil Man	Mr. Weaver	41
ANTH 308, Psychological Anthropology	Dr. Bock	52

3) Evening Program - During the regular sessions, the following courses were all taught after 4 p.m.; it is our intention to permit students to take most or all of the courses for a major in the evening hours over a four year period.

<u>Course and No.</u>	<u>Semester</u>	<u>Instructor</u>	<u>Enrollment</u>
ANTH 110-001, Language, Culture and Man	Fall	Gorbet	39
ANTH 125-002, Man in Nature	Fall	Campbell	61
ANTH 355-001, Southwest Archeology Paleo-Indian	Fall	Cordell	48
ANTH 341-001, Biosexual Bases of Sex Roles	Spring	Draper, Harpending	46
ANTH 356-001, Southwest Archeology Archaic to Present	Spring	Le Blanc	27
ANTH 420-001, Topics in Archeology	Spring	Lyons	15

4) Regular Undergraduate Program - Transition to the new major involving seven required "core courses" continued, with most majors now under the new catalog. This program will be evaluated during the coming academic year and decisions made about adding laboratory and discussion sections to the 100-level courses. Two courses have been moved from 300- to 200-level to fill a gap in our curriculum (231, Behavior of Monkeys, Apes and Men 284, Ancient Mexico; formerly 331 and 384, respectively). It was also decided to modify the requirements for an anthropology minor to permit specialization in a single sub-field; minors must now complete only one of the core course sequences (120-320, or 130-330, or 150-350) plus 15 elective hours.

The new freshman courses ANTH 105 (team-taught by Drs. Froehlich, Straus, and Bock) and 125 (taught by Dr. Campbell) continue to attract several hundred students each semester. It seems likely, however, that the new A&S course, 126, will overlap with our courses and take enrollment from them. (It should be noted that this A&S course was instituted without any consultation with the Anthropology Department. Neither does it seem to have benefited from the year-long study carried out under Dr. Bock's direction in 1970-71, concerning such a course for the social sciences.)

5) Graduate Program - Decreasing academic job opportunities have led the department to be more and more selective in admissions to the graduate program. The Department Graduate Committee under Dr. Schwerin screened 168 applications this year, and offered admission to only 48 new students. This committee has taken fuller responsibility for monitoring progress of students towards graduate degrees; each student now receives at least an annual letter of evaluation and many are called in for interviews with the Committee Chairman or the Graduate Secretary. Relevant data on the graduate program is summarized below.

Registration Data:

Fall 1977

97 Registered: 51 Female, 46 Male; 15 New Students
53 M.A. Students, 31 Post-M.A., 15 Doctoral Candidates

Spring, 1978

103 Registered: 53 Female, 50 Male; 9 New Students
57 M.A. Students, 26 Post-M.A., 20 Doctoral Candidates

Degrees Awarded:

Summer, 1977

M.A. - 5 (5 Archeology); Ph.D. - 2 (2 Ethnology)

Fall, 1977

M.A. - 3 (3 Ethnology); Ph.D. - 2 (1 Archeology, 1 Ethnology)

Spring, 1978

M.A. - 5 (2 Archeology, 1 Linguistics, 2 Ethnology); No Ph.D.'s

(Expected Summer 78: M.A. - 6; Ph.D. - 3)

Terminal M.A.'s Awarded (Summer, 77 - Spring, 78): 6

Number of Graduate Students in Each Subdiscipline as of Spring, 1978:

	<u>M.A.</u>	<u>Post-M.A.</u>	<u>Ph.D. Cand.</u>
Archeology (50)	26	10	14
Ethnology (35)	20	10	5
Linguistics (3)	3		
Biological (15)	8	6	1

Applications to Anthropology Graduate Program:

Spring, 1978 - 24 applicants, 11 accepted, 9 enrolled

Fall, 1978 - 118 applicants, 33 accepted, 7 declined (as of June 30, 1978)

Financial Aid Data:

Research Assistantships (OCA): 3
 Graduate Assistantships: 10
 Project Assistantships: 3 (spring, 1978, only)
 Work Study (Department): 5 Museum: 3
 NSF Fellowship: 2
 Frieda Butler Fund: 2
 Employment with Office of Contract Archeology: 8
 (One student has just received a Ford Foundation Fellowship)

6) New Faculty - With Dr. Ortiz on research leave to the Center for Advanced Studies at Stanford, Dr. Barrett on sabbatical, and Dr. Cordell on LWOP second semester, we were fortunate to find visiting faculty and instructors who could cover their courses. Dr. Eva Friedlander came from Goucher College for the year; Dr. Keith Basso (Professor, University of Arizona) gave a seminar second semester; Dr. Steven LeBlanc taught a course in Pueblo archaeology; Mr. Steven Athens taught South American archaeology (the area of his now completed dissertation); and Dr. Tom Lyons offered a special course on Remote Sensing in Archaeology.

We were also fortunate to fill two open positions with outstanding candidates. Dr. Jeremy Sabloff (Ph.D., Harvard 1969) will round out the faculty with his extensive knowledge of Mayan archaeology. He also brings to UNM the prestigious editorship of the journal American Antiquity which will occupy him half-time for the next three years. In addition, the newly created position of Chief Curator in the Maxwell Museum (which now carries a 1/3 time faculty appointment) was filled by Dr. Mari Lyn Salvador (Ph.D., UC-Berkeley, 1976). It is expected that this position will bridge the gap between the Museum and the Department, making Museum materials more available for courses and laboratories, while making faculty expertise more available to the Museum research program.

During the year, Dr. J. J. Brody received a well-deserved promotion

to Professor. Two assistant professors (Code 3) were also evaluated for contract renewal. Dr. Lawrence G. Straus's contract was renewed for three years, but Dr. Joseph V. Tainter's was not renewed. Dr. Tainter's resignation was accepted as of the end of Semester I, and a search was initiated for a replacement. After reviewing credentials of more than three dozen candidates, three were invited for interviews, and Dr. Robert Santley (Ph.D., Penn State University, 1977) was chosen. He will join the faculty on a three-year term contract, bringing useful knowledge of the Middle east and the Valley of Mexico.

Finally, after extensive negotiations, an agreement was reached between UNM and the Mimbres Foundation under which Dr. Steven LeBlanc (Ph.D., Washington University, 1971) joined the Department as a Research Professor, bringing with him important collections and research projects relating to the prehistory of New Mexico. He may also teach occasional courses (see above), and will work with our graduate students.

7) New Staff - Ms. Linda Bahm resigned as office manager to go to the Maxwell Museum. She was replaced by Jeanne Rosenthal-Colahan who has done a fine job of taking over the administrative tasks. Freddie Heitman continues as graduate secretary, working closely with the Graduate Committee. A new position of Undergraduate Secretary was filled in the Spring by Ms. Ada Plotner; working with the Chief Undergraduate Adviser she will establish files on Anthropology majors and assist in the evaluation of the new curriculum. The Clark Field Archive which was transferred from the Museum to the Department this year is presently staffed by Rita Ayala (OCETA) and several work-study persons. (Ms. Ayala also handles duplicating services.) Finally, with the assistance of the Dean of A&S, by

combining resources from the Mimbres Foundation, American Antiquity, and other grants, we were able to hire a full-time "Archaeology Secretary," Ms. Margaret Guitterez, with responsibility for correspondence, grant preparation, and manuscript typing.

8) Colloquia and Harvey Lectures - Academic activities were at a high pitch during 1977-78, due in part to the large number of distinguished visiting speakers brought under the Harvey Fellowship Program and to the requirement that graduate students and candidates present public colloquia. Many of these presentations were open to the University community and attracted people from other departments. The Harvey Public Lectures (Tuesday nights) also brought interested people from outside the University. (Harvey Lectures will continue next year, but only four to six speakers will be invited.)

TABLE 1.

Anthropology Colloquy, Guest Lectures and Harvey Lectures

1977-78

Colloquy

Mary Ellen Conaway	Circular Migration Among the Guahibo
Mari Lyn Salvador	Structural Basis of Kuna Aesthetics
Scott Rushforth	Aspects of Communication Among Bear Lake People: Speaking to Relatives Through Marriage
Joseph Tainter	Social Organization in Native Hawaii
Pita Kelekna	The Socialization of Aggression Among The Achuara
Eva Friedlander	Durga and Kali: Aspects of Mother Goddess Worship in West Bengal, India
Kitty Killoran	Women's Roles and How They Change With Economic Development in Spain
Elizabeth Cashdan	Exchange Networks in Botswana: A Comparison of Two River Regions
Greg C. Burchard	Subsistence, Environment and Change in Viet Nam
William J. Chasko, Jr.	Resource Structures and Subsistence Mobility in Northeastern Botswana
Frances Joan Mathien	Economic Exchange Systems in the San Juan Basin
Eric Devor	Historical Demography in the Aland Islands, Finland, 1750-1900
Peter Whiteley	African Models in the South American Lowlands
Karl Schwerin, Pita Kelekna, Peter Whiteley	Report on Recent Amazonia Symposium
Robert Santley	Archeology in The Valley of Mexico
Stephen Kowalewski	Archeology in The Valley of Oaxaca
Robert Schact	Archeology in The Middle East

Guest Lectures

Otto Schondube, Curator
Museo Regional de Guadalajara

Shaft Tombs

Jean-Philippe Rigaud, Director
of Prehistoric Antiquities
of the Aquitaine

Stone-Age Prehistory of Southwest France

Harvey Lectures

Dr. Cavalli-Sforza, Stanford
University

Questions and Answers in the Analysis
of Human Evolution

Keith H. Basso, University
of Arizona

Portraits of "The Whiteman:" Joking
Imitations of Anglo-Americans Among the
Western Apache

Brian Berry, Harvard University

Process Models of Urban Systems

Fred Eggan, University of
Chicago

Beyond the Bicentennial: The Future of
the American Indian in the Perspectives
of the Past

Richard Lee, University of
Toronto

Concentration-Dispersion: The Dynamic
of Movement in Hunter-Gatherer Societies

Daniel Freedman, University of
Chicago

Cross-Cultural Studies of Infancy: A
Bio-Social Perspective

Bill Holm, Curator, Thomas
Burke Memorial Museum,
University of Washington

Willie Seaweed: A Master Artist of the
Kwakiutl

Derek F. Roberts, University
of Newcastle-Upon-Tyne

Genetic Evolution in an Isolated Population

Victor Turner, University of
Virginia

Theory of Cultural Performance

Sir Edmund Leach, Cambridge
University

The Gatekeepers of Heaven: Anthropological
Aspects of Grandiose Architecture

Eugene Hammel, University of
California-Berkeley

Experimental History

The Report of the Office of Contract Archaeology

July 1, 1977 - June 30, 1978

Frank J. Broilo, Director

I. OBJECTIVES

As a branch of the Department of Anthropology, the Office of Contract Archaeology (OCA) interfaces with public agencies and private concerns to provide cultural resource management information and services. In this capacity, the OCA undertakes research projects to enable compliance with federal and state statutes which mandate the prudent exploitation of our limited and nonrenewable cultural resource base. These projects result in the preparation of scientific monographs and related documents which delineate appropriate preservation and conservation measures designed to evaluate the needs of our urban-industrial society in terms of long-term environmental productivity.

In articulation with public agencies, private clients, and the professional anthropological community, the OCA has established and maintained a record of high performance in each of these sectors (see Supplementary Information).

II. OPERATIONS

Projects include the preparation of environmental impact statements and other evaluations necessary prior to land modification actions. Research activities include, but are not limited to, archival reviews, field investigations, laboratory analyses, and subsequent data manipulation and collation. These activities are rigidly structured

according to fiscal allocations and time frames as specified in contract requirements. Procuring and efficiently implementing projects thus requires administrative and coordinating functions which focus upon proposal preparation, contract negotiation, project scheduling, personnel recruitment, logistics and other considerations requisite to viable performance. As such, management and research must effectively be integrated.

The above tasks involve the professional staff as well as providing opportunities for student training which is a necessary supplement to their formal academic programs. Experience gained by students at the OCA has served to enhance their employment potential in the expanding field of cultural resource management.

III. CURRENT STATUS

Project sponsors are becoming increasingly aware of the research and services provided by the OCA. The publication of research from major projects undertaken in New Mexico has highlighted the capability of the OCA and has resulted in the significant increase of proposal solicitations received by the OCA. However, staff limitations have precluded a response to many of these solicitations. All proposal preparation is executed by the Director and the Assistant Director who must, in addition, monitor ongoing projects to insure that contract obligations are performed in a timely manner. This situation has limited significant research opportunities and concomitantly, student employment and training. An additional permanent adminis-

trative-research position would ameliorate the above situation.

Deficiencies in the physical plant should soon be rectified with the addition of trailer space (see Supplementary Information). This interim solution will provide adequate space and facilities for existing and forthcoming projects until Fall, 1978, when relocation of the Office to a more suitable building is scheduled.

IV. PLANNING AND DEVELOPMENT

The OCA has developed a strategy of contract procurement based upon quality performance with non-competitive cost. Improvements in this approach are contingent upon maximizing research potential and services while attempting to stabilize cost to whatever degree possible. Additionally, efforts are underway to reduce time and money involved in the preparation of large project proposals, with particular emphasis on the increasing demands of Federal solicitations. Unawarded proposals from this sector result in costly "front" effort which has no fiscal recovery.

The maximum integration of students into OCA projects is a desirable objective. Students gain employment as well as experience and data sources for theses and dissertations. In turn, the OCA benefits from this involvement through the new approaches to research designs and other areas of expertise which students may provide.

Resource management projects are on the increase nationwide, and particularly in the western states, where there is a dramatic rise in the number of energy development projects. The OCA is currently

engaged in all phases of such projects. Special emphasis will be directed towards expanding OCA involvement in initial project phases (exploratory), which are normally of a middle-to-small scale. These projects frequently develop into major undertakings at a later date, and as such, afford greater research potential. All of these goals are in accordance with OCA's mission as a research, service and instructional organization and are further consistent with the more general objectives of the Department of Anthropology.

OCA BUDGET 1977-1978

SALARIES AND WAGES

A. Director, Office of Contract Archeology	\$ 18,929.00
B. Research and Projects Coordinator (Archeologist III)	\$ 15,974.00
C. Department Secretary (Clerical Specialist V)	\$ 7,072.00
D. Student Aids	\$ 3,431.00

GENERAL EXPENSES

A. Supplies and Expenses	\$ 3,300.00
B. S&E Anthro Laboratory	\$ 2,530.00
C. Travel	\$ 2,200.00
D. Fringe Benefits	\$ 5,865.00
GRAND TOTAL	<u>\$ 59,300.00</u>

REPORTS SUBMITTED TO FEDERAL AGENCIES

<u>NUMBER</u>	<u>SUBMITTED TO</u>	<u>DATE</u>	<u>TITLE</u>	<u>AUTHOR(S)</u>
101-99	BLM	12-20-74	Archaeological Survey of Anaconda Co. Drill Sites on Ojo Del Espiritu Santo Grant. Sandoval County	Stein, John R.
101-100	NPS	11-22-74	Archaeological Survey of Northwest Pipeline Wells Barbara Kay No. 1 and Judy Lee No. 1	Enloe, James G.
101-101	BIA	11-25-74	Archaeological Survey of a Mobil Oil Co. Pipeline	Chapman, Richard
101-103A	NPS	12-23-74	Archaeological Clearance Survey: Manning Gas & Oil Co. Apache No. 101 Well Site	Allan, William
101-103C	NPS	1-27-75	Archaeological Clearance Survey Rijan Oil Co. Well # 18	Allan, William
101-103D	NPS	1-27-75	Archaeological Clearance Survey Northwest Pipeline Barbara Kay No. 2 First Relocation	Allan, William
101-103E	NPS	2-3-75	Archaeological Clearance Survey Ya-Ta-Hey to Pittsburg Mine Public Service Co. Power Line Right-of-Way	Stein, John R.
101-103G	NPS	2-21-75	Archaeological Clearance Survey Northwest Pipeline Corp. Barbara Kay No. 2 Second Relocation	Allan, William
101-103J	NPS	3-21-75	Archaeological Clearance Survey of 16 Anaconda Co. Proposed Exploration Well Sites	Reher, Charles
101-103L	SHPO	5-27-75	Archaeological Survey of a Floodwater Retarding Structure in the Corrales Watershed	Allan, William
101-103N	USFS	6-2-75	Archaeological Clearance Survey Public Service Co. of N.M.: 46 KV Tijeras Canyon Powerline	Allan, William
101-103O	USFS	6-24-75	Archaeological Clearance Survey Ideal Basic Industries, Cement Division 16 Acre Quarrying Project	Beardsley, John
101-103P	USFS	7-31-75	Archaeological Survey of a Southern Union Gas Co. Pipeline in Tijeras Canyon, N.M.	Allan, William
101-103R	USFS	11-19-75	Archaeological Clear Survey 115 KV Powerline Easement for Public Service Co. of N.M.	Allan, William

NPS = National Park Service
SHPO = State Historic Preservation Office
BLM = Bureau of Land Management
BIA = Bureau of Indian Affairs
USFS = United States Forest Service
USACOE = United States Army Corps of Engineers

Recreation Area

101-103T	BIA	1-19-76	Archaeological Clearance Survey Mountain Bell Underground Cable Right-of-Way	Broster, John Gauthier, Rory
101-103U	BLM	5-10-76	Archaeological Clearance Survey: Public Service Co. WW to Northbulk Right-of-Way	Enloe, James
101-103V	NPS	4-29-76	Archaeological Survey of the Todilto Exploration and Development Company's Warnock Lease	Carroll, Charles
101-103W	NPS	5-4-76	Archaeological Survey of Ten Anaconda Co. Proposed Exploratory Drill Sites	Carroll, Charles
101-103Y	BIA	6-23-76	Archaeological Survey of Six Housing Sites on the Laguna Indian Reservation	Grigg, Paul Stein, John R. Stuart, David E.
101-103Z	USACOE	11-5-76	Puerco Channelization Project - Archaeological Survey	Grigg, Paul Carroll, Charles
101-107 101-110	NPS	5-19-76	Archaeological Survey Road Construction Rights-of-Way Block II - Navajo Indian Irrigation Project	Allan, William et al.
101-113	BLM	3-20-75	Archaeological Clearance Survey: K.B. Kennedy Pipeline Chaves County, N.M.	Allan, William Eschman, Peter Stuart, David E.
101-128	TVA	10-27-75	TVA Archaeological Survey Phase III: Severn Mineral Exploration Drillholes on the ABE Pena Ranch	Allan, William
101-132	NPS	4-6-76	Archaeological Survey Wesco 8.8 Mile Burnham Access Road	Gauthier, Rory Stuart, David Allan, William
101-141	SHPO, BLM, NPS, BIA	9-27-76	GASCO Survey: 100 Mile Pipeline from Star Lake to Gallup, New Mexico	Gauthier, Rory Stein, John
101-146	BLM, NPS, BIA	9-27-76	Archaeological Clearance Survey Star Lake to Gallup for 8" Pipeline (GASCO's)	Stein, John Stuart, David
101-147	NPS	10-7-76	Archaeological Survey Public Service Co. of N.M. Right-of-way Four Corners to Ambrosia Lake 345 KV Transmission Line	Carroll, Charles Marshall, Michael P. Stuart, David
101-154	BIA	1-18-77	Anaconda Laguna Lease # 4, Jackpile-Paguate	Carroll, Charles Hooton, Jean Stuart, David

A-15

101-155	BIA	12-22-76	Anaconda P-15, P-17 Jackpile Mines	Carroll, Charles Hooton, Jean Stuart, David
101-170	SHPO	3-18-77	Archaeological Survey of Anaconda Co.'s Bluewater Mill Tailing Pond Expansion, New Mexico	Gauthier, Rory Acklen, John C. Stein, John R.
185-2	BLM	4-6-77	Archaeological Survey in Rio Puerco Valley (East): Public Service Co. of N.M. Marquez Line	Gauthier, Rory Acklen, J.
185-2B	BLM	5-1-77	Archaeological Survey of the Proposed Gallegos Powerline in the Gallegos Wash Area	Gauthier, Rory Acklen, John C.
185-2C		5-19-77	Archaeological Survey of Three Tracts in the Manzano Mountains for KNME-TV	Gauthier, Rory
185-2D	BIA	6-20-77	Archaeological Survey of Anaconda Co.'s Oak Canyon Tract in the Jackpile Mine, Paguete, N.M.	Grigg, Paul Fosberg, Stephen Gauthier, Rory
185-2E	State Archeologist	7-13-77	Archeological Clearance Survey for Proposed Mining Exploration in the Borrego Pass Region, N.M.	Grigg, Paul Stein, John R.
185-2F	BLM	8-17-77	Archaeological Survey of Two Proposed Powerlines Near the San Juan Generating Station	Stein, John Frizell, John
185-2G	NPS	8-3-77	Archaeological Survey of Five Mine Site Locations of United Nuclear, Dalton Pass, N.M.	Fosberg, Stephen
185-2H	BIA	8-23-77	Archaeological Survey of Public Service Co.'s 345 KV San Ildefonso Powerline	Gauthier, Rory Mashburn, C.H.R.
185-2J	BLM	9-28-77	Archaeological Survey of Two Lineal Tracts on Kerr-McGee and BLM Lands in Rio Puerco Drainage	Caraveo, Carlos Schalk, Randall
185-2K	BLM	11-77	Archaeological Survey of Several Areal Parcels on Kerr-McGee Lands and BLM Lands	Wase, Cheryl Schalk, Randall
185-2M	BLM, NPS	12-8-77	Archaeological Survey of 10 Proposed Drill Sites in the Blanco Trading Post Area, Northwest N.M.	Schalk, Randall Lent, Stephen C.
185-3		(pending)	Mitigation Program Sites PNM:A, B, C. Public Service Company of New Mexico.	

Eight Historic Laguna Archaeological Sites within
the Anaconda Co's P-15/P-17 and Dames & Moore
Acreages: The Jackpile Mine, Pagate, N.M.

Carroll, Charles
Stuart, David E.

185-18	BLM, NPS, BIA	1-18-78	Archaeological Survey of Conoco's Bernable Road Modification and Improvement	Gauthier, Rory Lent, Stephen C.
185-19	BLM	11-15-77	Archaeological Survey of 13.5 Mile Powerline Right-of-Way on Santa Clara Pueblo Lands and BLM Lands	Lent, Stephen Schalk, Randall
	NPS	1977	Settlement and Subsistence Along the Lower Chaco River: The Coal Gasification Project Survey	Reher, Charles
101-127B	NPS	1977	Cochiti Mitigation Program	Biella, Jan V. Chapman, Richard C.

STUDENTS EMPLOYED BY THE OFFICE OF CONTRACT ARCHEOLOGY
AND AMOUNTS PAID TO THEM

Abbink, Emily	15.00	McMearty, Kathleen	21.45
Acklen, John	2310.07	Neal, Stephen	592.85
Allan, Bill	300.00	O'Leary, Beth	1109.85
Ames, Karen	79.75	Osborn, Allan	455.00
Bagley, Bonnie	2656.66	Prince, Patricia	331.80
Biella, Jan	19562.00	Ramage, Ann	350.00
Binford, Martha	992.24	Reher, Charles	11715.00
Cannon, Brian	967.20	Richardson, Renee	1131.00
Carillo, Charles	30.00	Robertson, Paul	53.25
Carroll, Charles	4924.93	Rogers, Alan	160.00
Cashdan, Elizabeth	172.00	Rose, Eric	30.00
Cattle, Dorothy	2346.75	Sacks, Laurie	90.00
Chapman, Dick	18387.00	Schalk, Randall	628.00
Chasko, William	561.25	Schutt, Jeanne	1155.00
Cisco, Barbara	98.00	Simon, Brona	838.05
Dougherty, Patrick	192.00	Spear, Laurence	3508.40
Ebert, James	325.00	Stein, John	1122.00
Eck, David	5266.20	Tainter, Joseph	55.04
Eschman, Peter	440.00	Taylor, Richard	982.00
Fosberg, Stephen	5029.21	Vierra, Bradley	721.44
Gauthier, Rory	120.00	Whiteley, Peter	224.00
Heck, Martha	3343.04	Wilson, Rand	44.00
Hewett, John	963.00	Witter, San	2709.00
Hitchcock, Robert	290.00	Wuertele, Elizabeth	487.00
Jorde, Lynn	6845.75	Zebich, Michele	9.00
Klimowicz, Gary	392.50		
Lippitt, Linda	1646.75		
Loose, Richard	6195.00		
Lopez, Catherine	2955.13		
Love, David	630.00		
Lumpkin, Charles	694.00		
Mathien, Joan	1548.00		
McLean, Susan	120.00		

PDS #	AGENCY	PROJECT TITLE	AMOUNT
101-123	Bureau of Indian Affairs	Mitigation of 12 Anasazi & Archaic Sites	\$ 88,381.00
101-123A	Bureau of Indian Affairs	Mitigation of 12 Anasazi & Archaic Sites	\$ 81,320.00
*101-124	Keradamex	Archeological Inventory Survey near San Mateo	\$ 6,069.00
101-125	Utah International, Inc.	Mitigation Program Site CGP 672	\$ 7,973.00
101-122	Utah International, Inc.	11 drill holes - 17 trenches	\$ 1,001.00
101-126	Arch Mineral Corporation	Prelim. Reconnaissance & Assessment - Bisti, NM	\$ 2,986.00
*101-128	Tennessee Valley Authority	Archeological services	\$ open
*101-127,A,B	U.S. Corps of Engineers	Cochiti Mitigation Program	\$ 313,200.00
101-103Q	Frontier Mining	2 Drill Holes	\$ 382.00
*101-103R	Public Service Co. of NM	115 KV Powerline Right-of-way	\$ 409.00
*101-132	Battelle Columbus Laboratories	WESCO Road & Spatial Determination	\$ 1,842.00
*101-103S	U.S. Corps of Engineers	Tetilla Peak Recreation Area	\$ 999.00
*101-103T	Mountain Bell Telephone	7.23 underground cable right of way	\$ 737.00
101-133	Eastern Associated Coal	Survey of 4.5 Section of Coal Lease	\$ 13,646.00
*101-134	National Park Service	Processing and Analysis of Specimens	\$ 35,588.00
*101-103TT	Mountain Bell Telephone	7.23 underground cable right of way	\$ 999.00
101-138	Homestake Mining Co.	5.14 Sections Exploratory Drilling	\$ 12,889.00
101-139	Bureau of Land Management	Archeological survey of 58 1/2 Sections	\$ 87,175.00
101-140	Bureau of Indian Affairs	LA 271 - Archeological Testing Program	\$ 2,464.00
*101-124A	Keradamex	Increased budget to 101-124	\$ 2,503.00
*101-141	Southern Union Gas - Koogle & Pouls	Gas Transmission Line - Star Lake	\$ 12,477.00
*101-103U	Public Service Co. of NM	11.5 mile "W.W.-North Bulkhead"	\$ 1,148.00
*101-103V	Tadilto Exp. & Dev. Corp.	160 Acre Warnock Lease	\$ 782.00
*101-103W	Anaconda Co.	10 Drill holes and Access Roads	\$ 786.00
*101-103X	Corps of Engineers	3 Borrow Pits	\$ 492.00
*101-103Y	Pueblo of Laguna Housing Auth.	6 Housing Project Sites - 200 Acres	\$ 1,445.00
*101-103Z	Corps of Engineers	Puerco Channelization	\$ 1,000.00
*101-146	Southern Union Gas	Relocation Gas Transmission Line	\$ 9,566.00
*101-147	Public Service Co.	345 KV Transmission Line	\$ 10,198.00
*101-152	Bureau of Indian Affairs	Yellowhouse Dam & Reservoir	\$ 34,525.00
*101-153	Sandia Labs	Kirtland AFB East, 12 Sections	\$ 31,942.00
*101-154	Dames & Moore	Anaconda Laguna Lease # 4, Jackpile-Paguate	\$ 4,942.00
*101-155	Anaconda	Anaconda P-15, P-17, Laguna Lease # 4	\$ 3,328.00
101-156	Plains Electric Co.	Cultural Resource Assessment of 3 Sites	\$ 16,827.00
101-158	Dale Bellamah Corporation	Monarch Village Subdivision	\$ 657.00
101-159	Dale Bellamah Corporation	Heritage Hills Subdivision	\$ 2,504.00
101-160	Dale Bellamah Corporation	Taylor Ranch Subdivision	\$ 3,874.00
101-165	El Paso Electric Co.	Newman Station, TX to Luna Substation, Deming	\$ 10,695.00
**101-166	Pittsburg & Midway Coal Mining Co.	11,400 acres in McKinley County	\$ 31,942.00

* awarded

** withdrawn

101-168	Consolidation Coal	44,755 acres in San Juan County	\$ 238,348.00
101-167	Consolidation Coal	11,870 acres, Contract No. N00-C-14-20-2190	\$ 73,016.00
*101-170	Anaconda Co.	1,640 a., Mill Site, Valencia Co.	\$ 9,602.00
*101-134A	National Park Service	Processing & Analysis of Specimens	\$ 69,960.00
101-172	Utah International	611.8a., Mining Strip 3	\$ 215,958.00 (A)
			\$ 333,528.00 (B)
*185-1	Utah International	Professional Consultation	\$ 998.00
*185-2	Public Service Co.	Right-of-way, Marquez Line	\$ 762.00
*101-134B	National Park Service	Addendum to 76-77 FY budget	\$ 8,717.00
*185-2A	Anaconda Co.	Services Relocation of S.A.R. sites	\$ 1,239.00
*185-3	Public Service Co.	Mitigation Program, sites PNM:A,B,C	\$ 5,533.00
*185-2B	Public Service Co.	Gallegos Powerline	\$ 1,296.00
*101-152A	Bureau of Indian Affairs	Amendment to Yellowhouse survey	\$ 14,343.00
185-4	Kerr-McGee	Excavation program, LA 12106	\$ 65,964.00
*185-2C	KNME-TV	Survey on Kirtland AFB	\$ 381.00
185-5	Woodward Clyde	Mining Tailing Pond, 1500 a.	\$ 8,377.00
*185-2D	Anaconda Co.	250 acres in Oak Canyon near Paguete	\$ 1,499.00
*185-6	Anaconda Co.	Ethnographic Mitigation of 8 sites	\$ 9,991.00
*101-128A	TVA	Services: TV42483A	\$ open
*185-7	Anaconda	Mitigation of 5 sites, Jackpile/Paguete	\$ 34,433.00
*185-2E	Rocky Mountain Energy Co.	Archeological Survey, Borrego Pass	\$ 1,231.00
185-8	Park Service	Los Esteros Lake, Arch. & Historical Mitigation	\$ 143,316.00
*185-2F	Public Service Company	Arch. Survey of 2 powerline relocations	\$ 945.00
*185-2G	United Nuclear	5 mine sites, Dalton Pass	\$ 1,032.00
*185-9	National Park Service	Fire Effects & Fire Suppression Efforts	\$ 27,303.00
*185-10	Gatewood Newberry Corp.	Main Canyon, Datil Mountains - Survey	\$ 4,737.00
*185-11	Bureau of Indian Affairs	Picuris Pueblo Reservation - Survey	\$ 5,148.00
*185-2H	Public Service Co.	San Ildefonso Survey	\$ 1,125.00
185-12	Woodward-Clyde	Archeological Survey - Rights-of-way	\$ 52,583.00 (A)
			34,066.00 (B)
			2,888.00 (C)
			4,863.00 (D)
185-13	El Paso Community College	Mitigation - Transmountain Campus	\$ 78,975.00
*185-2I	United Nuclear	Demarcation of archeological sites, Dalton Pass	\$ 210.00
*185-14A	Bureau of Land Management	Cultural Resource Inventory, Las Cruces	\$ 24,829.00
*185-15	Anaconda	Archeological Mitigation of 3 sites, 4 localities	\$ 26,948.00
*185-2J	Kerr-McGee	Intensive Survey, two tracts of land	\$ 1,158.00
*185-16	National Park Service	Chaco Center Analysis	\$ 94,987.00
185-17	National Park Service	Remote Sensing Division Analysis	\$ 37,887.00
*185-2K	Kerr-McGee Nuclear	Intensive survey of Kerr-McGee/BLM lands	\$ 1,489.00
*185-18	Continental Oil	Linear Survey of 12.4 miles, Navajo, Laguna Pueb.	\$ 2,105.00
*185-19	Public Service Co.	Archeology Survey of 13.5 Linear Miles	\$ 1,610.00
185-20	U.S. Forest Service	Collection, Processing, Analysis of Data	\$ 15,349.00
*185-19A	Public Service Company	Amendment to 185-19	\$ 809.00

*185-2M	Salt River Project
*185-2N	U.S. Forest Service
*185-20	Riconada Canyon Project
*185-2P	United Nuclear
*185-2Q	United Nuclear
*185-2R	Frontier Mining

Archeological Survey of 15 Drill Sites	\$	827.00
Excavation of Site AR-03-06-05-120	\$	156.00
Archeological Survey, 9 locations & roads	\$	992.00
Archeological survey of 1.2 sections in Dal. Pass	\$	1,492.00
Archeological Survey of 1.8 miles	\$	729.00
Archeological survey of 2 drilling locations	\$	642.00

Description of Physical Facilities at O.C.A.

As presently allocated, the physical facilities at O.C.A. are not adequate to permit full development of the organization's potential and barely permit continuance of the present level of performance. The inadequacies are apparent in both the quantity and the quality of the space allocated. The situation has recently been alleviated to some extent by the addition of one trailer which provides additional office and laboratory space, and the arrival of another trailer in approximately 10 days will further ease the present space situation. However, O.C.A.'s needs will not be fully met until the planned move to space reserved in the former State Health Laboratories is carried out.

The main allocation of space is as follows:

Main Building

Offices	500 sq. feet
Lab and Work	1600 sq. feet
Storage	<u>325 sq. feet</u>
TOTAL	2425 sq. feet

Trailer

Office	360 sq. feet
Lab	<u>360 sq. feet</u>
TOTAL	720 sq. feet

In this space, the Office of Contract Archeology must house one or two major projects and numerous smaller projects, all running concurrently. At times, 25 to 35 people are simultaneously employed. The present facilities, therefore, are wholly inadequate in terms of the sheer

requirement for physical space and totally unable to provide the kinds of private space which research and project negotiations require. In addition, the main building has been condemned and is slated for destruction, for reasons which are obvious to anyone who has ever entered it. The general atmosphere is not conducive to optimal employee performance, and presents many health and safety hazards.

It should be clear that any factors which inhibit or delay moving O.C.A. to new quarters will severely impair the ability of this organization to carry out its mission and will certainly limit the size and number of projects which can be undertaken in the future.

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Inventory of Major Equipment
(equipment valued at over \$400 per item)

- 5 Bausch & Lomb microscopes
- 1 Savin 770 copier
- 3 Selectric electric typewriters (IBM)
- 1 alidade
- 1 transit

List of Publications

An Archeological Survey of Public Service Company of New Mexico's 345 KV Transmission Line Right-of-Way: Four Corners to Ambrosia Lake, New Mexico.
By Charles H. Carroll, Michael P. Marshall and David E. Stuart. Edited and revised by David E. Stuart. Public Service Company of New Mexico. Albuquerque. 1976.

Archeological Reports; Cultural Resource Management Projects: Working Draft Series No. 1. Co-edited by F.J. Broilo and D.E. Stuart. Office of Contract Archeology, Department of Anthropology, University of New Mexico. 1975.

Settlement and Subsistence Along the Lower Chaco River: The CGP Survey.
Edited by Charles Reher. Office of Contract Archeology, Department of Anthropology, University of New Mexico. 1977.

Archeological Investigations in Cochiti Reservoir, New Mexico. Volume 1: A Survey of Regional Variability. Edited by Jan V. Biella and Richard C. Chapman. University of New Mexico, Office of Contract Archeology, University of New Mexico, 1976.

Archeological Investigations in Cochiti Reservoir, New Mexico. Volume 2: Excavation and Analysis 1975 Season. Edited by Richard C. Chapman and Jan V. Biella, with Stanley D. Bussey, Contributing Editor. Office of Contract Archeology, University of New Mexico, Albuquerque. 1976.

FRANK J. BROILO

Papers Presented and Professional Participation:

- 1975 With Charles A. Reher
Research and Mitigation Considerations in the Regional Contract Survey. Paper presented to the Cultural Resource Management Symposium. Society for American Archeology, Dallas, Texas
- 1975 Research Considerations in the Regional Contract Survey, Pecos Conference, Farmington, New Mexico.

MARK E. HARLAN

Papers Presented and Professional Participation:

- 1973 Models for the Study of Prehistoric Mesoamerican Trade, Presented to the 1973 meeting of the American Anthropological Association.
- 1974 Computerized Data Analysis for the National Park Service's Antelope House Project. Paper presented to the 1974 meeting of the Society for American Archaeology.
- 1974 Patterns of Prehistoric Exchange at Chalcatzingo, Morelos, Mexico, Paper presented to the 1974 meeting of the American Anthropological Association.
- 1975 Interregional Interaction during the Formative Period in Mesoamerica, Paper presented to the 1975 meeting of the American Anthropological Association.
- 1976 The Anthropomorphic Figurines from Chalcatzingo, Morelos, Mexico. Paper presented at the 1976 Annual Meeting of the Society for American Archaeology, New Orleans.
- 1977 Ecological Conditions in the Rise of Cultural Complexity in Mesoamerica. Paper presented at the Annual Meeting of the American Anthropological Association, Houston, Texas.

JAN V. BIELLA

Papers Presented and Professional Participation:

- 1976 "Small Site Functional Assemblage Variability: A Case from Cochiti Reservoir." Paper presented at the Small Site Symposium, Arizona, April, 1976.
- 1977 Discussant for Symposium "Rio Grande as Viewed from its Periphery." Pecos Conference. Pecos, New Mexico. August, 1977.

RICHARD C. CHAPMAN

Papers Presented and Professional Participation

- 1968 "Progress Report: Current Archeological Research in the Grand Canyon, Arizona" (39th Annual Meeting of the Pecos Conference, El Paso).
- 1969 "Progress Report: Current Archaeological Research in the Walhalla Glades, the Grand Canyon, Arizona" (40th annual meeting of the Pecos Conference).
- 1970 "Progress Report: Current Archeological Research on the Walhalla Glades, the Grand Canyon, Arizona" (41st Annual Meeting of the Pecos Conference).
- 1974 with F.J. Broilo
Introductory Statement, New Mexico Archeological Council, Office of Contract Archeology, University of New Mexico. Albuquerque.
- 1975 "New World Lithic Analysis: Regional Evaluations, Southwestern U.S." Paper delivered 40th Annual Meeting of the Society for American Archaeology, Dallas).
- 1975 "Progress Report: Current Archeological Research in Cochiti Reservoir, New Mexico" (48th Annual Meeting of the Pecos Conference, Farmington.
- 1976 with J.V. Biella
"Small Site Functional Assemblage Variability: A Case from Cochiti Reservoir." Paper presented at the Small Site Symposium, Tucson, Arizona.
- 1976 Moderator, "Assessment of Indirect Impact" panel, Third Southwest Regional Cultural Resource Management Seminar, Albuquerque.
- 1977 "The Excavation of Room 2, Pendejo Pueblo". Short story delivered at 50th Annual Meeting of the Pecos Conference, Pecos, N.M.
- 1977 Discussant, "The Northern Rio Grande as Viewed from the Periphery", symposium held during 50th Annual Meeting of the Pecos Conference, Pecos, N.M.

The Report of the Division of Chaco Research
July 1, 1977 - June 30, 1978
W. James Judge, Chief

The Chaco Center, a National Park Service supported research facility working in cooperation with the University of New Mexico, continued archeological and environmental studies in and around Chaco Canyon National Monument.

During winter months, analysis and interpretation of data from survey and excavation in Chaco Canyon progressed. The summer was devoted to continuing the excavation of Pueblo Alto, one of the large major ruins in the area. Environmental studies carried out concurrently include palynological, vegetative, and paleoclimatic. A study of the Chacoan "satellite" communities and their relationship to Chaco Canyon was initiated and a preliminary manuscript has been prepared. Remote-sensing techniques were employed extensively in a variety of programs related to Chaco Research.

Reports on the Navajo history of Chaco Canyon, and on an archeological ethnohistory of the Chaco Navajo were completed and submitted for final editing. Other "in-house" reports have been completed and will be reproduced for distribution. A manuscript on the Stone Circles of Chaco Canyon has been completed and is being prepared for publication.

Staff members participated in numerous meetings, symposia, and conferences. Several papers presented at such meetings are being

published. The Chaco Center hosted several conferences, including one on Chaco-Salmon relationships and one on archeomagnetic dating, and is serving as a general clearing house for archeological research in the San Juan Basin.

Personnel consisted of 6 permanent National Park Service employees, 12 part-time laboratory and analytical technicians, 11 seasonal field archeologists, and 3 Navajo laborers.

Drs. Lister and Judge offered a seminar in Analytical Methods in Archeology which was taken by 12 students. In addition, Judge offered individual study courses to 13 students on various aspects of Chacoan and Chaco-related anthropological research.

Cooperative research programs were accomplished, or are continuing, with the University of New Mexico departments of Geology and Anthropology (Office of Contract Archeology), and with the Technology Application Center. Joint research programs also were conducted with other National Park Service divisions, with the Bureau of Land Management, the Bureau of Indian Affairs, the U.S. Geological Survey, the New Mexico Archeological Society, Public Service Company of New Mexico, and several private research foundations.

Division of Remote Sensing

Annual Report, Academic Year 1977-78

(Report prepared by Thomas R. Lyons, Chief, Division of Remote Sensing)

The Division of Remote Sensing, a National Park Service supported research facility working in cooperation with the University of New Mexico, continued archeological and environmental studies in remote sensing in the southwest and throughout the United States.

During winter months, analysis and report preparation progressed on remote sensing assessment of the cultural resources at Hubbell Trading Post NHS, Arizona, Ninety-Six NHS, South Carolina, Fort Union and Hidatsa Indian Villages, North Dakota, the National Petroleum Reserve in Alaska, and the Navajo Indian Irrigation Project, New Mexico.

Research in the application of remote sensing to cultural resource management is underway in the fields of terrestrial photogrammetry at Canyon de Chelly NM, Arizona; monitoring of prehistoric structures at Keet Seel in Navajo NM, Arizona, and Kin Ya'a in Chaco Canyon NM, New Mexico; multispectral scanning and computer pattern recognition from digital imagery at Bandelier NM and Chaco Canyon NM, New Mexico; seismic sounding for underground structures at site 29SJ633, Chaco Canyon NM, New Mexico; and multiband photography at Chalmette NHS, Louisiana.

Student employees at the Division participated in the preparation of an Archive of all Division photographs and maps, acquisition of information in the existing photography of all National Park Service areas in the Southwest Region, and either co-ordinated the contracts or actually performed the analyses and wrote the reports for many of the above listed projects. An extensive report was prepared on the history of research into the Chacoan Prehistoric Roadway Network.

Supplements to the Remote Sensing Handbook by Thomas R. Lyons and Thomas Eugene Avery which was published this year by the Government Printing Office have either been sent to Washington for printing or are being final edited by the Division. Supplements on Practical Exercises in Remote Sensing and Instrumentation in Remote Sensing are in Washington, supplements on remote sensing in the Midwest and the Pacific Northwest, and an extensive Bibliography are in final editing stages. Also published this year were a book titled Aerial Remote Sensing Techniques in Archeology, edited by Thomas R. Lyons and Robert K. Hitchcock, and Remote Sensing and Non-destructive Archeology, edited by Thomas R. Lyons and James I. Ebert. The last book consisted of a series of papers which were prepared by the staff of the Division during this year and presented at this year's meeting of the Society for American Archeology. A motion picture titled "Space Age Archeology" discussing the work of the Division was completed this year by the University of New Mexico Office of Public Information Photo Services and the Division.

Staff members also participated in various meetings, conferences, and symposia ranging from planning sessions for specific Park Service areas to professional organization meetings. One member of the staff attended a week-long course at George Washington University on Computer Processing of Digital Imagery Data.

Personnel consisted of 3 permanent National Park Service employees and 12 full-time and part-time student employees. Two members of the permanent staff received their highest academic degrees from the University of New Mexico and all but one of the full-time and all of the part-time student employees are currently students.

Dr. Lyons, with the assistance of several of the staff members, presented a semester-long course through the Department of Anthropology on "Remote Sensing in Anthropology" to 14 students, two of whom were subsequently hired as part-time employees by the Division.

Cooperative research programs are continuing with University of New Mexico departments of Electrical Engineering, Anthropology, and the Technology Applications Center. Joint research programs are being conducted with other National Park Service agencies, Texas Tech University, the U.S. Forest Service, the Bureau of Indian Affairs, and Mobil Oil Co.

Also during the year, the Division began to expand its philosophical base to include the application of remote sensing techniques to the field of ethnology as well as archeology.

B. Significant Plans and Recommendations

My first year as Chairman was spent learning administrative procedures and priorities. Preparation of the Accreditation Report gave me an opportunity to review events of the last decade and to think about future plans. (Many details of Departmental growth and operation will be found in that report and have not been repeated here.) Whether or not the University is approaching a "steady state," the Department of Anthropology has probably reached a peak of staffing (with 22.34 FTE professional and 3.00 FTE staff positions) and will have to carefully consider and defend retention of present faculty in terms of a well-conceived program. To this end we adopted formal procedures for review of term contracts.

Demand for some of our courses has clearly fallen off over the last five years, and it remains to be seen if changes already made in curriculum and scheduling will be sufficient to reverse this trend. It seems clear, however, that the reclassification of Anthropology in the new A & S group requirements and the offering of a course such as A & S 126 (with lab) will further cut into our lower-division enrollment. (I will submit a further memo on this matter.)

As a result of many studies and meetings, anthropology has been virtually assured of space in the former State Health Laboratory building to make possible the consolidation of archaeological programs (OCA, Mimbres, Field School, and teaching laboratories) with certain teaching and research functions in biological anthropology (especially osteological and primate studies). It will not be easy to allocate this space among the many claimants, but the addition of these facilities should make

possible a more coherent program. In particular, we hope to have a pilot version of a laboratory to accompany Anthropology 150 by 1979 and another to accompany Anthropology 120 the next year.

The new space should also allow us to integrate Contract Archaeology more closely with our academic program. OCA will continue to provide research experience and employment opportunities for our students. Several professors (among them Drs. Binford, Froehlich, Rhine, Schwerin, Weigle, and Workman) now have, or are applying for, research grants that will involve still other students. Within the past year, our students have carried out fieldwork in the Southwest and other regions of the U.S. (including Alaska), and Canada, but also as far abroad as Spain, South Africa, Panama, Australia, and Ecuador.

In general, the Department has maintained a high level of academic productivity and public service (see section II). Our (promised) new facility combined with plenty of hard work should bring about a still higher level of excellence, even though it may be difficult to reverse our declining enrollments over the short run. (Our weighted Student/Faculty Ratio of 22.10 for Semester I, 1977-78 shows that we are still carrying our share of the teaching load.) In the coming year, I hope to go beyond day-to-day administrative problems and to develop programs and policies that will realize the full potential of this Department.

C. Appointments to Staff

Jeremy A. Sabloff, Professor of Anthropology

Effective December 28, 1977

Mari Lyn Salvador, Chief Curator, Maxwell Museum; Assistant Professor
of Anthropology

Effective October 1, 1977

Steven A. LeBlanc, Research Assistant Professor of Anthropology

Effective November 1, 1977

Eva Friedlander, Visiting Assistant Professor of Anthropology

Effective August 15, 1977 - May 13, 1978

Keith H. Basso, Visiting Professor of Anthropology

Effective January 16, 1978 - May 13, 1978

Robert S. Santley, Assistant Professor of Anthropology

Effective August 14, 1978

D. Separations from Staff

Joseph A. Tainter, Assistant Professor of Anthropology

Effective December 29, 1977

II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced Study

Gorbet, Larry P. Advanced Sign Language, UNM Department of
Communicative Disorders

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

Barrett, Richard A. Sabbatical leave, academic year 1977-78

Campbell, John M. Field research, Yukon Territory, Canada,
June-August, 1977

Froehlich, Jeffery W. Field research on Panamanian howler monkeys,
July, 1977

Lamphere, Louise Sabbatical leave, calendar year 1977

Lister, Robert H. Archeological research, Mexico, May, 1977

Ortiz, Alfonso Study tour of Mayan cities in southern Mexico
and Guatemala, June, 1977. Participant,
Wenner-Gren conference on cultural perform-
ances, Burg Wartenstein, Austria, August-
September, 1977. Post-doctoral Fellow,
Center for Advanced Study in the Behavioral
Sciences, Stanford, California, 1977-78.

Rhine, J. Stanley Travel to Belen, New Mexico, to recover
skeleton eroding out of ground. Travel to
Lincoln, New Mexico, to investigate allegedly
human remains near bank of Rio Bonito. Travel
to Oklahoma City to visit FAA's Disaster
Research Unit.

Straus, Lawrence G. Co-director of excavations at La Riera Cave,
Asturias, Spain, May-August, 1977.

Weigle, Mary Martha Adjunct professor, Ph.D. committee of Martha
Iwaska, Union Graduate School West

Workman, Peter L. Finland, Summer, 1977.

3. New scholastic honors, fellowships, etc.

Harpending, Henry C. Participant to MARC grant to Richard Griego
(mathematics) for biomathematics training.

New scholastic honors, etc., (cont.)

- Ortiz, Alfonso Postdoctoral Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, California, 1977-78. Appointed Chairman, Interdisciplinary National Advisory Council, Center for the History of the American Indian, Newberry Library, Chicago, December, 1977.
- Rhine, J. Stanley Selected as "Professor of the Month" by Las Campanas Honorary
- Weigle, Mary Martha Zia Award (for outstanding New Mexico author), New Mexico Press Women, 23 April 1977.

4. Publications

- Barrett, Richard A. Review of Family and Other Business Groups in Economic Development by Harry W. Strachan in Sociology: Reviews of New Books, Vol. 4, No. 2, Jan/Feb 1977.
- Review of Exploring the Latin American Mind by Seymour B. Liebman in Journal of Anthropological Research, Vol. 31, No. 1, Spring 1977.
- Review of Peruvian Nationalism: A Corporatist Revolution, David Chaplin, ed., in Sociology: Reviews of New Books, Vol. 4, No. 3, Mar/Apr 1977.
- Review of Nine Mayan Women: A Village Faces Change by Mary Elmendorf in Sociology: Reviews of New Books, Vol. 4, No. 5, Jul/Aug 1977.
- Binford, Lewis R. "Foreword" in Method and Theory in Historical Archaeology by Stanley South, Academic Press, New York and London, pp. xi-xii.
- "Introduction" in For Theory Building in Archaeology, L. R. Binford (ed.), Academic Press, New York and London, pp. 1-13.
- "Bone Frequencies and Attritional Processes" (with Jack B. Bertram) in For Theory Building in Archaeology, L. R. Binford (ed.), Academic Press, New York and London, pp. 77-153.

Publications (cont.)

Binford, (cont.)

For Theory Building in Archaeology (editor), Academic Press, New York and London, 419 pp.

Review of Hunter-Gatherer Subsistence and Settlement by M. A. Jochin, in American Antiquity, Oct 77, pp. 431-433.

"Historical Archaeology--Lessons from the Nunamiut" in Historical Archaeology and the Importance of Material Things, Leland Ferguson (ed.), Special Publication #2, Society for Historical Archaeology, pp. 17-38.

Bock, Philip K.

"I Think But Dare Not Speak": Silence in Elizabethan Culture, Journal of Anthropological Research, Vol. 32, No. 3, 1976, pp. 285-294.

Review of Meaning in Anthropology by K. Basso and H. Selby, in Journal of Anthropological Research, 1977, Vol. 33, No. 1, pp. 119-120.

Brody, J. J.

Mimbres Painted Pottery, Santa Fe and Albuquerque, School of American Research and University of New Mexico Press, 1977.

"Mimbres Art Rediscovered," Explorations, 1977.

"The Mimbres Paradox," New Mexico Magazine, 1977, Vol. 55, No. 10.

"The Creative Consumer: Survival, Revival and Invention in Southwest Indian Arts," a chapter in Ethnic and Tourist Arts, Nelson H. H. Graburn, ed., Berkeley, University of California Press, 1977.

"Mimbres Art - Sidetracked on the Trail of a Mexican Connection," American Indian Art, Vol. 2, No. 4, 1977.

Reviews of Celtic and Anglo-Saxon Painting by Carl Nordenfalk; The First Cities by Ruth Waterhouse; Eskimo Art: Tradition and Innovation on North Alaska by Dorothy Jean Ray in Museum News, 1977, Vol. 56, No. 2.

Publications (cont.)

Brody (cont.)

Review of "Stone Bones and Skin: Ritual and Shamanic Art" ed. by Anne Trueblood Brodzky, Museum News, Vol. 56, No. 1.

Review of Ancient Andean Art in the Collections of the Krannert Art Museum by Alan R. Sawyer, Museum News, Vol. 56, No. 1.

Review of Survival: Life and Art of the Alaskan Eskimo by Barbara Lipton, Museum News, Vol. 55, No. 6.

Review of Contemporary Southern Plains Indian Metalwork by Rosemary Ellison, Museum News, Vol. 55, No. 6.

Review of Asiatic Influences in Pre-Columbian Art by Paul Shao, Museum News, Vol. 55, No. 5.

Review of Sensitive Chaos: The Creation of Flowing Forms in Water and Air by Theodor Schwenk, Museum News, Vol. 55, No. 5.

Review of Exhibits for the Small Museum: A Handbook by Armintha Neal, Museum News, Vol. 55, No. 5.

Review of The Great Archaeologists, Edward Bacon (ed.), Museum News, Vol. 55, No. 5.

Review of Eskimo Masks: Art and Ceremony by Dorothy Jean Ray, Journal of Anthropological Research, Vol. 33, No. 2.

Review of Indian Art of the Northwest Coast: A Dialogue on Craftsmanship and Aesthetics by Bill Holm and Bill Reid, Museum News, Vol. 55, No. 4.

Review of Culture, Change and Continuity: Essays in Honor of James Bennett Griffin, Charles E. Cleland (ed.), Museum News, Vol. 55, No. 4.

Cordell, Linda

"Late Anasazi Farming and Hunting Strategies: One Example of a Problem in Congruence," American Antiquity 42:449-461.

Publications (cont.)

Cordell (cont.)

"Late Anasazi Hunting: Inferences from the Tijeras Pueblo Fauna," ABSTRACT, in Program and Abstracts, Society for American Archaeology, 42nd Annual Meeting, New Orleans, 1977.

"Mechanism of Cultural Evolution: An Overview of Theory," ABSTRACT in, American Anthropological Association, 76th Annual Meeting, Houston, Texas

Froehlich, Jeffery W.

"Paleontological Survey, Resource Assessment and Mitigation Plan for the Bisti-Star Lake Area, Northwestern New Mexico." Final Report on file with Bureau of Land Management. Joint authorship with B. S. Kues. 1519 pages.

Gorbet, Larry P.

"Headless Relatives in the Southwest: Are They Related?" pp. 270-278 in K. Whistler et. al. (ed.) Proceedings of the Third Annual Meeting of the Berkeley Linguistics Society. Berkeley (Ca.): Berkeley Linguistics Society, 1977.

Harpending, Henry C.

"The Spatial Structure of Resources: Some Implications for Hunter-Gatherer Ecology" with H. Davis, World Archaeology 8:275-286.

Judge, W. James

"Synthesis and Comparison of Project Results" in Investigations of the Southwest Anthropological Research Group, 1977, Museum of Northern Arizona Bull, No. 50.

"The Field School: Training Session or Legitimate Research?" in Teaching and Training in American Archaeology, 1977, Southern Illinois University Museum Studies, No. 10, pp. 122-135.

"The Coal Gasification Project" with F. Broilo, in Settlement and Subsistence Along the Lower Chaco River, 1977, UNM Press, pp. 1-6.

Lamphere, Louise

To Run After Them: The Social and Cultural Bases of Cooperation in a Navajo Community, Tucson, University of Arizona Press, 1977.

Publications (cont.)

- Lamphere, (cont.) "Anthropology: Review Essay" in SIGNS, Journal of Women in Culture and Society, Vol. 2, No. 3, Spring, 1977, pp. 612-627.
- Lister, Robert H. Earl Morris and Southwestern Archaeology with Florence C. Lister, UNM Press, 1977 (paperback reprint)
- Ortiz, Alfonso "Concerns Central to the Writing of 'Indian' History," The Indian Historian 10:17-22, 1977.
- "The Pueblo Indians," World Book Encyclopedia.
- "D'Arcy McNickle," Indian Affairs 6:5 Nov/Dec. 1977.
- Rhine, J. Stanley Review of "Fossil Evidence: The Human Evolutionary Journey" by Frank E. Poirier, Journal of Anthropological Research, Vol. 33, No. 2, p. 297.
- "On the Preservation of Osteological Materials" with Charles Sheldon, Connective Tissue, Vol. 3, No. 1, p. 1-2.
- "A Skeletal Identification Problem" (Case of the Month) Newsletter - Office of the Medical Investigator, Vol. IV, No. 6, pp. 7-9.
- Rushforth, E. Scott "Country Food" in Dene Nation-The Colony Within, ed. Mel Watkins, Toronto: The University of Toronto Press. pp. 32-46.
- Schwerin, Karl "A New Cactus Species and Two New Varieties from New Mexico," with E. F. Castetter and Prince Pierce, Cactus and Succulent Journal 48:77-82.
- "A New Mammillaria Heyderi Variety from New Mexico," Cactus and Succulent Journal 48: 138-139.
- Sebring, James M. Review of Pastoralists and Nomads in South Asia, ed. by L. S. Lashnik and G. D. Sontheimer, in Journal of the American Oriental Society, Vol. 97, 1977.

Publications (cont.)

Spolsky, Bernard

Frontiers of Bilingual Education, Rowley, Mass.: Newbury House Publishers (Co-editor, with Robert Cooper).

"Language Testing: Art or Science", Proceedings of the Fourth International Congress of Applied Linguistics, ed. by Gerhard Nickel, HochschulVerlag, Stuttgart, Vol. 3, pp. 7-28.

"Toward the Measurement of Functional Proficiency: Contextualization of the Noise Test," TESOL Quarterly, 11:51-57 (with Stephen Gaies and Harry Gradman).

"The Establishment of Language Education Policy in Multilingual Societies." in Frontiers of Bilingual Education, pp. 1-21.

"Bilingualism in the Six-year-old Navajo Child" ed. by W. F. Mackey and Theodore Andersson, in Bilingualism in Early Childhood, Rowley, Mass.: Newbury House Publishers.

Spuhler, James N.

"The Evolution of Human Behavior" Colloquia in Anthropology, Fort Burgwin Research Center, Southern Methodist University, 1:67-82, 1977.

Straus, Lawrence G.

"The Solutrean of Altamira: The Artifactual and Faunal Evidence" with J. Altuna, Zephyrus (Salamanca) 26-27:175-182.

Review of The Ladizian: An Industry of the Asian Chopper-Chopping Tool Complex in Iranian Baluchistan, by Gary Hume, in Journal of Anthropological Research 32:296.

"Le Solutrean d'Isturitz et du Pays Basque: outillage lithique," XX Congres Prehistorique de France (Provence), pp. 595-604.

"Analisis arqueologico de fauna paleolitica del Norte de la Peninsula Iberica" in Munibe 28:277-285.

Publications (cont.)

Straus (cont.)

"Posible atribucion al Solutrense del yacimiento de la Pasiega (Puente Viesgo, Santander)" in Ampurias (Barcelona) 36:217-223.

"Of Deerslayers and Mountain Men: Paleolithic Faunal Exploitation in Cantabrian Spain," in For Theory Building in Archaeology L. R. Binford, ed., Academic Press, New York, pp. 41-76.

"Cueva de la Riera: Objetivos del 'Proyecto Paleoeologico' e informe preliminar de la campaña de 1976," with G. Clark, in Boletín del Instituto de Estudios Asturianos 90:489-505.

"The La Riera Paleoeological Project: Preliminary Report of the 1976 Excavations," with G. Clark, Current Anthropology 18: 354-355.

"El Solutrense Cantabrico," in XL Aniversario del Centro de Estudios Montaneses, Institución Cultural de Cantabria, Santander, Vol. III, pp. 309-319.

Sobre "Una revision estratigrafica de la Cueva de la Riera," with G. Clark, in Boletín del Instituto de Estudios Asturianos 91:

"New Radiocarbon Dates for the Spanish Solutrean" with F. Bernaldo de Quiros, V. Cabrera and G. Clark, in Antiquity 51:

"1976 Excavations in La Riera Cave" in Old World Archaeology Newsletter 1(2):10-11.

"The Upper Paleolithic Cave Site of Altamira (Santander, Spain)," Quaternaria 20:270-283.

"1977 Excavations in La Riera Cave," in Old World Archaeology Newsletter 1(3):10-11.

Weigle, Mary Martha

"Ghostly Flagellants and Dona Sebastiana: Two Legends of the Penitente Brotherhood," Western Folklore, vol. 36, 1977, pp. 135-47.

Publications (cont.)

Workman, Peter L.

Review of "The Role of Natural Selection in Human Evolution," Annals of Human Biology, 4:190.

"Admixture Estimates and Selection in Tlaxcala" in The Tlaxcaltecs, with M. H. Crawford, University of Kansas.

5. Other Research Projects or Creative Work in Progress or Completed Period.

Alvarado, Anita L.

Papers accepted for publication: "Autonomy and Legitimacy in Scientific and Ethnomedical Systems"; "Status and Trends in Professional Nursing of Selected Ethnic Minorities: American Indians, Asian-Americans, Blacks, Hispanics"; "Medical Anthropology and the Health Professions"; "Important Factors to Consider in the Integration of Scientific and Ethnomedical Systems"; "Discussion of Kay, Mexican American Fertility Regulation and Barbee, Health Action and Conflict Between Professional Health Actors in Botswana".

Barrett, Richard A.

Article accepted for publication: "Village Modernization and Changing Nicknaming Practices in Northern Spain," Journal of Anthropological Research, to appear Spring, 1978.

Review of Lewis, Oscar, Ruth M. Lewis, and Susan M. Rigdon, Four Women: Living the Revolution, An Oral History of Contemporary Cuba, to appear in Sociology, Reviews of New Books, probably Jan/Feb 1978.

Binford, Lewis R.

Work completed: (Book) Nunamiut Ethno-archaeology, 1170 ms. pages, currently in press with Academic Press.

(article) "Behavior and Site Structure at Eskimo Hunting Sites" 41 ms. pages, accepted by American Antiquity.

Bock, Philip K.

Completed revision of Modern Cultural Anthropology for paperback edition, A. A. Knopf, New York, scheduled for publication in late 1978.

Other Research Projects, etc. (cont.)

- Bock (cont.) Continuing work on book dealing with history of psychological anthropology, to be published by W. H. Freeman, San Francisco, probably in 1979.
- Co-editor, Journal of Anthropological Research.
- Brody, J. J. Organized and supervised installation of a two-part exhibition: "Myth, Metaphor and Mimbreno Art" shown at the Maxwell Museum (UNM) and the Taylor Museum (Colorado Springs) from February through September.
- Designed installation for exhibit of Costa Rican Archaeology to be installed at Maxwell Museum in February, 1978.
- Campbell, John M. Short story "The Dry Fly Uptown".
- Cordell, Linda S. "The Eastern Anasazi," chapter prepared for Vol. 8 of the Handbook of North American Indians, William C. Sturtevant, general editor, Alfonso Ortiz, volume editor (with David Snow and Richard Lang (in press)).
- Review of Charles A. Reher (ed.), Pre-historic Settlement Along the Lower Chaco River, Journal of Anthropological Research (in press).
- Area Handbook - The Application of Remote Sensing to Southwestern Archaeology, with Thomas A. Lyons (to be published by the Chaco Center, expected publication date, Fall, 1978).
- Froehlich, Jeffery W. Continuing cooperative study with V.A. and Medical School on nutritional problems in Japanese monkeys (V.A. support \$4000).
- Continuing study of social ecology and population structure of howler monkeys in Panama. (Funded by RAC, \$1500, and Smithsonian Institution, \$3000).
- BLM Grant, \$84,000, Paleontological Survey, Resource Assessment, and Mitigation Plan for the Bisti-Star Lake Area, Northwestern New Mexico.

Other Research Projects, etc. (cont.)

- Gorbet, Larry P. "Meta-quotation as a design feature of language"; social constraints on quotation; syntactic processes in discourse; computer-based linguistic field data files, with special attention to problems of inter-system and inter-language compatibility.
- Harpending, Henry C. "The Population Genetics of Interactions" accepted in American Naturalist.
- Judge, W. James Preparation of evolutionary model of cultural development, San Juan Basin, New Mexico.
- Analysis of archaeological materials, Pueblo Alto excavation, Chaco Canyon. Compilation of Research Results, Southwestern Anthropological Research Group.
- Lamphere, Louise NIMH Grant, \$69,000, (Center for the Study of Metropolitan Problems), research on "Women, Work and Ethnicity in an Urban Setting", June 21, 1976-May 31, 1978.
- Lister, Robert H. Chaco Canyon Project (joint UNM-National Park Service)
- Ortiz, Alfonso Critical Bibliography of Works in North American Indian Literature (with Margaret D. Ortiz), completed December, 1977, and submitted to Newberry Library for consideration in their critical Indian bibliographies series.
- Southwest volumes (editor of 2) Handbook of North American Indians (in press).
- History of Stereotypes of the Indian in American Culture (in progress, 1977-78)
- To Carry Forth the Vine (an anthology of Indian poetry, with M. D. Ortiz), only introduction unwritten.
- Rhine, J. Stanley Assessment of illegally-removed skeletal material for U. S. Forest Service.
- Continuation of work on facial restorations, and several faces done. Additional data collected and analyzed.

Other Research Projects, etc. (cont.)

- Rhine (cont.) Acquisition and beginning of preparation and analysis of large collection of Mimbres skeletal material.
- Rushforth, E. Scott Field research among the Bear Lake Indians, May 15-July 6. -Project Title: Language variation and tribal identity among the Bear Lake Indians. Faculty Research Allocations Grant.
- Salvador, Mari Lyn National Endowment for the Arts Grant-exhibition of photographs and text based on research in the Azore Islands and in California.
- Schwerin, Karl H. Continuing work with E. F. Castetter and Prince Pierce on Cacti of New Mexico, including several spinoff papers. Research for papers presented at annual meetings of Southwestern Anthropological Association and American Society for Ethnohistory.
- Sebring, James M. Completion of monograph, The Harsh and the Rude: A Phenomenological Study of Interaction in a Caste System of North India.
- Research into religious education and the transmission of beliefs and values in the Roman Catholic elementary and secondary education system of Albuquerque and other selected Catholic schools in New Mexico.
- Research into the social and economic organization of religious orders in New Mexico, with particular emphasis upon recruitment to the orders.
- Spolsky, Bernard Directed National Endowment for the Humanities Summer Seminar for College Teachers on Bilingualism.
- Case Studies in Bilingual Education (in press).
- Educational Linguistics (in press).
- "Language and Bicultural Education," Educational Research Quarterly, Winter, 1978.

Other Research Projects, etc. (cont.)

Spolsky (cont.)

"The Whorfian Hypothesis in 1975: A Sociolinguistic Re-evaluation" with Joshua A. Fishman, prepared for Language and Logic in Personality and Society, edited by Harwood Fisher and Rogelio Diaz-Guerrero, Academic Press.

"A Model for the Evaluation of Bilingual Education" International Review of Education.

Spuhler, James N.

Concluded research for a review article on Biology, Speech, and Language. Continued work on a textbook on human evolution. Continued work on monographs on Microevolution in Native North America and on Microevolution in Egypt and Nubia since the Mesolithic.

Straus, Lawrence G.

N.S.F. Grant (continuing), \$70,000, La Riera excavation.

Weigle, Mary Martha

Two book review notes for Journal of Anthropological Research.

Completed final work on manuscript for UNM Press (to be published June, 1978), co-editor with Charles L. Briggs, to be entitled "Hispano Folklife of New Mexico: The Lorin W. Brown Federal Writers' Project Manuscripts".

Workman, Peter L.

Research on population structure in Aland, Finland. Support from Sigrid Juselius Foundation, Helsinki annual grant.

Co-investigator - joint Soviet/US study on adaptation of Siberian and Eskimo (Alaskan) populations.

Co-investigator - study on aging (with Prof. Crawford from Kansas University).

6. Activities in Learned and Professional Societies.

Alvarado, Anita L.

American Anthropological Association, paper read: "Status and Trends in Professional Nursing of Selected Ethnic Minorities: American Indians, Asian-Americans, Blacks, Hispanics".

Activities (cont.)

Alvarado (cont.)

Pan American Health Organization, paper presented: "Important Factors to Consider in the Integration of Scientific and Ethnomedical Systems".

Nursing Research Meetings, paper read: "Discussion of Kay, Mexican American Fertility Regulation and Barbee, Health Action and Conflict Between Professional Health Actors in Botswana".

American Indian Nurses' Association, paper read: "Comparison of Statuses of Indian Nurses with Selected Problems in the Data Bases".

Binford, Lewis R.

Invited speaker - Canada Council for Archaeology Annual Meeting, Calgary, Spring, 1977.

Plains Archaeological Conference - Lincoln, Nebraska, Nov. 1977.

Bledsoe, Caroline H.

"Romance and the American Bride", paper read at the 1977 meetings of the Southwestern Anthropology meetings, San Diego.

"Changes in Kpelle Fatherhood Patterns", paper read at the 1977 meeting of the American Anthropology Association meetings, Houston, Texas.

Bock, Philip K.

Invited participant, World Affairs Conference, University of Colorado, Boulder, April, 1977. Attended Regional Conference of Danforth Associates, Durango, Colorado, May, 1977.

Brody, J. J.

Member of Steering Committee (and chief executioner) of American Association of Museums.

Attended Annual Meeting of American Association of Museums.

Campbell, John M.

Attended annual meeting, American Anthropological Association, Houston, Texas, November, 1977.

Cordell, Linda S.

"Late Anasazi Hunting: Inferences from the Tijeras Pueblo Fauna," paper read at the Society for American Archaeology, Annual Meeting, New Orleans, La., April, 1977.

Activities (cont.)

- Cordell (cont.) "Mechanisms in the Evolution of Formative Societies", symposium organized with Mark A. Harlan, presented at the 76th Annual Meeting of the American Anthropological Association, Houston, Texas.
- Draper, Patricia As co-editor of Ethnologist, attended meeting of editorial board at American Anthropology Association meetings in Houston, Texas, November, 1977.
- "The Constitutional Basis of Sex Role Socialization", paper presented at the American Anthropological Association, November, 1977.
- Gorbet, Larry P. "Headless Relatives in the Southwest: Are They Related?", paper presented at the meeting of the Berkeley Linguistics Society, February, 1977.
- Harpending, Henry C. "Fisher's Theorem for Inclusive Fitness", paper read at meeting of American Association of Physical Anthropologists, Seattle.
- Gave talk at Department of Genetics, University of Washington.
- Judge, W. James Elected member of Executive Committee, Southwestern Anthropological Association.
- "The Rio Grande from the Perspective of the Chaco Basin", paper presented as symposium participant, Pecos Conference, August, 1977.
- "The Emergence of Complexity in Chaco Canyon, New Mexico", paper presented as symposium participant, A.A.A. Meetings, November, 1977.
- Meetings attended: S.A.A., A.A.A., SARG, Pecos Conference.
- Lamphere, Louise "Women, Work and Ethnicity" prepared for the Center for Studies of Metropolitan Problems (NIMH).
- Seminar Series on "The Urban Struggle: Woman and Work".

Activities (cont.)

- Lamphere (cont.) "Class, Strategy and Conflict at Work: Responses of Urban Working Women", presented at AAA Meetings, Houston, Dec, 1977.
- Lister, Robert H. Pecos Conference, Gran Quivira Conference, Society for Historical Archaeology
- Ortiz, Alfonso Attended Society for Ethnohistory meetings, Chicago, October, 1977.
- "Becoming a Pueblo Sacred Clown", paper presented at Wenner-Gren conference, Burg-Wartenstein Conference, Austria.
- Rhine, J. Stanley Attended American Academy of Forensic Sciences Meeting, San Diego, California, Feb. 15-19, 1977.
- "A Comparison of Facial Restoration Techniques", paper presented at Western Social Science Association Meeting, Denver, April 21-22, 1977.
- "The Skull from Estes Park, Three Restorations", paper presented at International Reference Organization in Forensic Medicine and Science Meeting (Pan-American Meeting), Mexico City, Nov. 13-18, 1977.
- Attended American Association of Physical Anthropologists Meeting, Seattle, Washington, April 13-16, 1977.
- Salvador, Mari Lyn "Molas: A Case Study of Artistic Criticism and Ethno-Aesthetics", paper presented at American Anthropological Association meetings, November, 1977.
- Schwerin, Karl H. Chaired symposium on "Problems in the Study of Complex Society: The Contemporary U.S." Annual Meeting, Southwestern Anthropological Association.
- "Behavioral Values and Family Structure in American Society", paper presented at annual meeting of Southwestern Anthropological Association, San Diego, California, 7-9 April, 1977.
- "Carib Trade and Slaving in the Lower Orinoco Region", paper presented at annual meeting of American Society for Ethnohistory, Chicago, Illinois, 13-16 October 1977.

Activities (cont.)

Spolsky, Bernard

Presented paper for discussion at the NIE Conference on Dimensions of Bilingual Programs, Washington, D.C., February 14-15, 1977. Paper: Dimensions for the Description and Analysis of U.S. Bilingual Education programs.

Invited speaker at the Sixth Annual University of Wisconsin-Milwaukee Linguistics Symposium on Language Acquisition, March 18-19, 1977. Paper: The Comparative Study of First and Second Language Acquisition.

Participant in Session "Management of Graduate Admissions Aid, and Recruitment, Admissions Officers, Houston, Texas, April 17-22, 1977. Paper: Management of graduate admissions, aid and recruitment: the pros and cons of centralization.

Invited participant to the Pre-Conference Session of the Four Corners States Conference, Santa Fe, New Mexico, September 30, 1977. Lecture: Separatism, cultural pluralism and bilingual education.

Keynote speaker at the Florida Association of TESOL's seventh annual conference, entitled "Accountability and Speakers of Other Languages", November 19, 1977, Coral Gables, Florida. Speech: Functional Literacy and the Linguistic Minority Student.

Keynote speaker at National Elementary Education Association Convention on Bilingual-Bicultural Education Comes of Age, San Francisco, California, December 8-10, 1977. Paper: Now that We're "of age" - What's the Plan for Tomorrow?"

Appointed member, Editorial Board, Studies in Second Language Acquisition, 1971- .

Elected Secretary-Treasurer, American Association of Applied Linguists, 1977-80.

Spuhler, James N.

Served as President, American Association of Physical Anthropologists and attended its annual meeting, Seattle, 13-16 April.

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Activities (cont.)

- Spuhler (cont.) Read paper at the 50th Anniversary Meeting, Pecos (Archaeological) Conference, 19-21 August.
- Straus, Lawrence G. Paper read (in absentia): "Norteamericanos en la Prehistoria montanesa," Centro de Estudios Montaneses, Santander, Spain - Symposium "Santander y el Nuevo Mundo", Oct. 1977.
- Paper read (in absentia): "Early Man Research: A View from La Riera Cave", Annual Meeting, New Hampshire Archaeological Society, Durham, N.H., Oct. 1977.
- Weigle, Mary Martha "Folk Religion in Hispanic New Mexico: The Passion in Village and Penitente Worship," a paper presented at the annual meeting of the American Folklore Society, Nov. 1977.
- Publications Editor, American Folklore Society, appointment as of Nov. 1977.
- Editor, Folklore Feminists Communication (to be changed to Folklore Women's Communication, a newsletter of the Women's Section of the American Folklore Society.
- Second Vice-President, New Mexico Folklore Society.
- Workman, Peter L. American Society of Physical Anthropologists, Seattle, Wash., April, 1977.

7. Other Professional Activities.

- Alvarado, Anita L. Consultant, Wiche on medical anthropology.
- Review articles for Ethnohistory.
- Geriatric Workshop for New Mexico Nurses Association. Paper: "Sociocultural Aspects of Aging".
- Consultant for attorney on ethnicity.
- Grant proposal review, National Science Foundation.
- Danforth Fellowship Committee, Ford Foundation Fellowship Committee, Program for Mexican Americans.

Other Professional Activities (cont.)

- Barrett, Richard A. Reimbursed review of a proposal for an introductory textbook, for Holt, Rinehart and Winston, Jan. 1977.
- Reimbursed review of the manuscript of an introductory textbook, for Holt, Rinehart and Winston, May, 1977.
- Binford, Lewis R. Participant, Humanities Council Energy Conference, Jan. 1977.
- Speaker: Harvard University, Biology Dept., Jan. 1977; Northwestern University, Anthropology Dept., Feb. 1977; Los Alamos Scientific Lab, April, 1977; Wyoming Field School, Aug. 1977.
- Bock, Philip K. Interview for special program on homosexuality, KGGM-TV, scheduled for December, 1977.
- Brody, J. J. Consultant: Museum of Albuquerque, Acoma-Sky City Pueblo Tourist Center and Museum, U. S. Forest Service (theft of archaeological property)
- Mimbres Valley Museum Committee.
- Board Member: Ghost Ranch Museum, Fine Arts Advisory Board, City of Albuquerque.
- Editorial Board: American Indian Arts and American Indian Review.
- Reader: NEA, NSF, NEH grant proposals.
- Juror, New Mexico State Fair; many public lectures, some radio, TV.
- Campbell, John M. Lecture on the USSR to: Harvard-Yale-Princeton Club, April, 1977, and to Rotary Club, May, 1977, and U.S. Naval Academy Association, May, 1977.
- Lecture on "Arctic and Subarctic" to Arctic Institute of North America annual members lecture, Calgary, Alberta, March, 1977.
- Cordell, Linda S. Served as archaeological consultant, Santa Rosa de Lima Project, Abiquiu, N.M., Spring and Summer, 1977.

Other Professional Activities (cont.)

- Cordell (cont.) Wrote the social science section of the text and teaching manual "Man and His Systemic Environment" (tentative title) for the Albuquerque Public School system.
- Guest lecturer in General Honors Program Seminar on Darwin and Evolution, Spring, 1977, and in graduate Proseminar in Sociology, Fall, 1977.
- Gave two three-hour sessions on southwestern archaeology for the docents of Maxwell Museum of Anthropology, Fall, 1977.
- Draper, Patricia Gave lecture for the New Mexico Humanities Council.
- One of three participants on a panel discussion of "The Child in Society", November 16, 1977.
- Froehlich, Jeffery W. Research consultant, V.A. Hospital, Albuquerque, N.M.
- Gorbet, Larry P. Invited participant at Third Yuman and Hohan Languages Workshop, Salt Lake City, June, 1977.
- Judge, James W. Guest lecturer: American Institute of Archaeology, School of American Research, Eastern New Mexico University, Albuquerque Archaeological Society, Story of Albuquerque.
- Lamphere, Louise "Women's History, the View from Other Disciplines" - presentation on Anthropology and Women's History for the Organization of American Historians meeting, Atlanta, Georgia, April, 1977.
- Ortiz, Alfonso Chairman, External Review Committee, Department of American Indian Studies, University of Minnesota.
- Member, Committee on the Status of Minorities and Women in Science, National Research Council

Other Professional Activities (cont.)

Ortiz (cont.)

Member: National Humanities Faculty,
Minorities Advisory Committee, Dan-
forth Foundation.

Chairman, Selection Committee, Doctoral
Fellowships for Native Americans, Ford
Foundation.

Member of editorial boards for six
journals.

Grant reviewer for Wenner-Gren, NSF,
SSRC, NEH, and NEA.

Rhine, J. Stanley

Talk, "The Role of Physical Anthropolo-
gists" to Albuquerque Archaeological
Society, April 18, 1977.

Talk, "Osteology as a Means of Extending
Archaeological Insight", Ghost Ranch,
New Mexico, Aug. 16-17, 1977.

Slide Presentation, "On the Use of
Anthropology and Odontology in Medico-
legal Investigations", International
Association for Identification (Rocky
Mountain Division) Montrose, Colorado,
Aug. 23-25, 1977.

Continued as Associate Curator for Physi-
cal Anthropology, Maxwell Museum

Schwerin, Karl H.

Manuscript reviews: Harper & Row,
Journal of Anthropological Research,
University of Texas.

Consultant, Office of Contract Archaeology.

Spolsky, Bernard

Consultant on linguistics program,
College of Arts and Sciences, New Mexico
State University, Las Cruces, New Mexico,
April 14-15, 1977.

Consultant for the Ford Foundation on
the Center for Applied Linguistics,
November 1977-April 1978.

Spuhler, James N.

Member, Assembly of Behavioral Sciences,
National Research Council, 1973-

Other Professional Activities (cont.)

- Spuhler (cont.) Member, Editorial Board, Annual Review of Anthropology, Palo Alto, California.
- Elected to Membership, Editorial Board, American Society of Naturalists (1978-)
- Weigle, Mary Martha "The Penitente Brotherhood: Its Origins and Early History," Summer Lecture Series, Santa Fe Historical Society, 13 June 1977.
- "The Penitente Brotherhood," a talk for Friends of Zimmerman Library, UNM, 26 April 1977.
- Workman, Peter L. Discussant - Conference on Genetic Epidemiology, University of Hawaii, October, 1977. Paper (in press) "Population Structure and Genetic Epidemiology"
- Consultant to NICHO, Sudden Infant Death Syndrome, August, 1977.
- Organizer - International Symposium on Structure of Isolate Populations to be held in Finland, 1978.
8. Non-teaching University Service.
- Alvarado, Anita L. Faculty Senate, Curricula Committee, Undergraduate Academic Affairs Committee, Coordinator for Harvey Distinguished Lecture Series (through August), Women's Studies Center Selection Committee, President's Committee on Minority Concerns, Gerontology Curriculum Committee, Native American Studies Advisory Committee, etc., etc.
- Barrett, Richard A. Chairman, Departmental Ethnology Committee, Jan-May 1977
- Binford, Lewis R. Chairman, A&S Social Sciences Promotion Committee.
- Member, A&S Tenure Committee.
- Bledsoe, Caroline H. Library Committee, Fall, 1977.
Library Liaison for Anthropology Department, Spring, Fall, 1977.

Non-teaching University Service (cont.)

Bock, Philip K.	Acting Chairman, Summer, 1977. Chairman of Department, 1977-78. AF&T Committee, January to May, 1977. Chairman of 3 Ph.D. Committees; advisor to 4 new graduate students. Co-ordinator of Latin-American Programs (with U.A.G., Guadalajara)
Brody, J. J.	Director, Maxwell Museum of Anthropology. Member: Advisory Committee, Fine Arts Museum, UNM; Fund Raising Advisory Council, Maxwell Museum Association.
Campbell, John M.	Chairman, Board of Archaeologists, UNM. Member, Faculty Senate, UNM.
Froehlich, Jeffery W.	Research Policy Committee.
Gorbet, Larry P.	Anthropology Department Graduate Committee. Linguistics Department Policy Committee. Advisor to three graduate students.
Harpending, Henry C.	Committee on designing interdisciplinary introduction to social sciences.
Judge, W. James	Committee Chairman for five doctoral candidates. Sponsor: 5 masters candidates.
Lister, Robert H.	Chief, Southwest Cultural Resources Center - NPS.
Ortiz, Alfonso	Advisor or co-advisor to nine graduate students in three departments.
Rushforth, E. Scott	Member, Undergraduate Committee, Dept. of Anthropology. Member, Native American Studies Advisory Board.

Non-teaching University Service (cont.)

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| Rhine, J. Stanley | Continued as Anthropology consultant to Office of the Medical Investigator, State of New Mexico. |
| Schwerin, Karl H. | Research Policy Committee, Faculty Library Committee, Search Committee for Appointee in Latin American Studies, A&S Graduate Committee.

Chairman, Anthropology Graduate Committee. |
| Sebring, James M. | In charge of Harvey Lecture Series and arrangements.

Undergraduate ethnology advisor.

Member, University Subcommittee for Asian Studies. |
| Spuhler, James N. | Chairman (Spring), Member (Fall), University Press Committee.

Member, Library Committee, Maxwell Museum of Anthropology.

Editor, Journal of Anthropological Research. |
| Straus, Lawrence G. | Board of Archaeologists.

Chaired one M.A. committee; served on two others and on two doctoral committees.

Advised an undergraduate honors project. |
| Weigle, Mary Martha | University Press Committee; Student Publications Board; Advisory Board for new Literary/Arts Magazine; Board of Directors, Maxwell Museum Association. |
| Workman, Peter L. | Director, Undergraduate Studies, Department of Anthropology.

Counselor, Hillel/Jewish Student Union, University of New Mexico. |

9. Public Service

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| Alvarado, Anita L. | Finance Committee, Queen of Heaven Catholic Church. |
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Public Service (cont.)

- Alvarado (cont.) Finance Committee, Sangre de Cristo Catholic Church.
- Programs presented to Central New Mexico German Shepherd Dog Club: "Selecting a Show Quality Puppy: Biological and Psychological Factors" and "Nutritional, Psychological and Educational Necessities in Raising German Shepherd Pups".
- Barrett, Richard A. Chairman, Committee on Education, Partners of the Americas.
- Binford, Lewis R. Speaker - New Mexico Museum Association, October, 1977.
- Speaker - Albuquerque Archaeological Society, June, 1977.
- Advisor - Albuquerque Museum Planning Board.
- Brody, J. J. New Mexico Cactus and Succulent Society.
- Froehlich, Jeffery W. Audubon Wildlife Film Committee.
- Judge, W. James Advisory Council, Explorer Post #296.
- Ortiz, Alfonso President, Association on American Indian Affairs, Inc., New York, N.Y. (since 1973)
- Member of Board, Institute for the Development of Indian Law; also for American Indian Institute.
- Member, Board of Trustees, Santa Fe Preparatory School.
- Schwerin, Karl H. Vice President, Parents Without Partners, Inc.
- Vice President, New Mexico Cactus and Succulent Society.
- Sebring, James H. Member of the Board, Archbishop's School Fund (Archdiocese of Santa Fe)
- Member, Subcommittee for Policy-making and Policy Review, Catholic School Board (Archdiocese of Santa Fe)

Public Service (cont.)

Weigle, Mary Martha

Board of Directors, Santa Fe Historical
Society.Planning Committee, Southeast Neighbor-
hood Association, Santa Fe.

The Report of the Office of Contract Archeology

Department of Anthropology

July 1, 1977 - June 30, 1978

Frank J. Broilo, Director

I. Introduction

The Office of Contract Archeology, Department of Anthropology, during the past year has continued to provide professional research services to public agencies and private concerns pertinent to federal and state authorities regulating the management of our cultural resources base. The Office of Contract Archeology acting in this capacity reflects the University of New Mexico's concern for the prudent use of our limited and nonrenewable cultural resources. Over the past year the Office has expanded its research directions to encompass studies of extant cultures in New Mexico ethnographically, in addition to the original focus upon archeological resources. This augmentation of research capability is fully consistent with the letter and intent of cultural resource management law. The Office is now in the position to comprehensively document and interpret the changing character of cultural groups inhabiting New Mexico. Linking archeological evidence and ethnographic data has served to significantly enhance our understanding of man's occupation of New Mexico and the greater southwest.

Projects undertaken by the Office result in the preparation of scientific monographs and related documents which provide information concerning the nature and significance of cultural resources as well as appropriate preservation and conservation measures designed to sustain the long-term productivity of environment.

Since the inception of the Office in September of 1973, federal and private development projects in New Mexico have increased dramatically. The Office has established and maintained a record of high performance in responding to the needs of government and industry (see Supplement A, Total Contract Awards). During FY 1977-78, the Office in addition to undertaking new projects from established clients has expanded its visibility as a viable research organization to gain new clients. From this sponsor base the potential for contract research has increased for FY 1978.

II. Personnel

Dr. Mark Harlan replaced Dr. David E. Stuart who resigned effective October 1, 1977. Dr. Harlan has served as Assistant Director effective October 1, 1977.

Other personnel at the Office are employed on a project specific basis and thus rotation of staff occurs frequently. This is particularly the case with personnel involved in limited projects.

III. Research Projects

In general, projects include the preparation of environmental assessments, environmental impact statements and limited research specific to client's ad hoc needs. Projects may be segmented into various research phases. These would include, proposal preparation, contract negotiation, administrations, field work involving ground survey and site excavation, various laboratory analyses, and report preparation. The efficient administrations of contract research requires close coordination and careful considerations of research scope, cost-effectiveness, personnel recruitment, scheduling, logistics and other matters essential to quality performance. These tasks involve the close articulation of the Office professional

staff, faculty from the Department of Anthropology and qualified students. In this latter area, the Office over the past year has continued to provide opportunities for student training and thus supplement academic training. In this regard, students employed by the Office have gained valuable experience, and thereby have enhanced their professional potential in the expanding field of cultural resource management, an increasing source of employment for anthropologists.

Specific projects of note includes the completion of the extensive research program conducted for the United States Army Corps of Engineers construction of the Cochiti Dam and Reservoir. Two volumes of this four volume series reporting on the research results have been published. Prepared by Jan V. Biella and Richard C. Chapman, the two remaining volumes will be published in FY 1977-78. This project involved the intensive survey of archeological sites and resulted in the testing and excavation of some 20 sites exhibiting evidence for 40 phases of human occupation in the project area. Research has focused upon explicating and explaining human responses to environmental variability in White Rock Canyon, New Mexico over a temporal span of 7,000 years.

Under the project supervision of Ros Hunter-Anderson, research for the proposed Yellowhouse Dam and Reservoir located on the Zuni Reservation was completed. Total survey area comprised approximately 6,400 acres exhibiting high densities of cultural resources. A final environmental impact statement was submitted to the Bureau of Indian Affairs. Publication of this report by the Bureau of Indian Affairs will be forthcoming during the next year.

Additional work with the National Park Service Chaco Center was implemented by two contracts for research at Chaco Canyon, New Mexico and the Center's Remote Sensing Division. As may be referenced in Supplement A numerous other research contracts were undertaken primarily focusing on private energy-seeking projects and management programs sponsored by the Bureau of Indian Affairs and United States Forest Service. Under the direction of Dr. Mark Harlan, Assistant Director of the Office, several surveys and limited mitigation and testing programs on cultural resources were limited. All of these projects resulted in the submittal and acceptance of research reports by various federal agencies.

Under contract with the National Park Service, Division of Cultural Resources, David Eck supervised the collation of cultural resource data in the San Juan Basin. The objective of this study is to enable the formulation of predictive mechanisms for site density in an area of maximum adverse impact due to coal and natural gas exploitation.

IV. Other Activities

Personnel from the Office have attended various professional meetings and presented papers. In addition Frank J. Broilo, Director of the Office was elected as the first Chairman to the newly incorporated New Mexico Archeological Council composed of archeologists, agency representatives and other interested parties involved in cultural resource management activities in New Mexico and adjacent states. The professional staff is preparing and have also contributed monographs, and papers for publication in various contract reports, and nationally recognized journals and books.

As planned during the previous year, an exhibit displaying the research activities of the Office has been completed in the Department of Anthropology. Planning for the past year has focused upon refining research

strategies, the effective collation of data from various projects, a statewide research design, additional publications and the need for more research and administration facilities.

Supplement A

Total and 1977-78 Contracts

Awards and Publications

Frank J. Broilo, Principal Investigator, Director

Mark Harlan, Assistant Director

185-2A	281-541-100	Anaconda	Services Relocation of SAR sites	1,239.00	04-12-77	Stuart
185-3	281-548-100	Public Service Co	Mitigation Program, Sites PNM A, B, C	5,533.00	04-14-77	Stuart
185-2B	281-541-100	Public Service Co	Gallegos Powerline	1,296.00	04-18-77	Stuart
¹⁰¹ 185-152A	281-492-100	Bureau Indian Affairs	Yellowhouse Amendment	14,343.00	03-31-77	Broilo Fosberg Stuart
185-4	not awarded	Kerr McGee	Excavation program LA 12106	65,964.00	04-21-77	Stuart Fosberg
185-2C	281-541-100	KNME TV	Survey on Kirtland AFB	381.00	04-21-77	Stuart
185-5	not awarded	Woodward-Clyde	Mining Tailing Pond, Hwy facil., 1500 a.	8,377.00	05-17-77	Stuart
85-2D	281-541-100	Anaconda	250 Acres in Oak Canyon near Paguate	1,499.00	06-03-77	Stuart
--6	281-561-100	Anaconda	Ethnographic Mitigation of 8 sites	9,991.00	06-03-77	Stuart
101-128A	281-415-100	TVA	Services: TV42483A	open	06-30-77	Stuart
185-7	<i>under revision</i>	Anaconda	Mitigation of 5 sites in Jackpile/ Paguate lease	34,433.00	06-30-77	Stuart Fosberg
185-2E	281-541-100	Rocky Mt. Energy Co	Archeological Survey Borrego Pass	1,231.00	06-30-77	Stuart

185 #	ACCOUNT NO.	AGENT	PROJECT	AMOUNT	OVERHEAD	DATE	BY
185-8	not awarded	Park Service	Los Esteros Lake, Arch. & Historical Mitig.	\$143,316.00		07-11-77	Broillo Fosber
185-2F	281-541-100	Public Service Co.	Arch. Survey of 2 powerline relocations, sections 19, 20, T30N, R15W, San Juan Co.	\$ 945.00	\$ 241.00	07-12-77	Stuart
185-2G	281-541-100	United Nuclear	5 mine sites - Dalton Pass	\$ 1,032.00	\$ 224.00	07-14-77	Fosber
185-9	281-594-100	NPS - Chaco Center	Fire Effects & Fire Suppression Efforts	\$ 27,303.00	\$ 3,561.00	07-28-77	Broillo
185-10	281-592-100	Gatewood Newberry	Main Canyon, Datil Mountains - Survey	\$ 4,737.00	\$ 1,188.00	08-02-77	Tainte
185-11	281-607-100	BIA	Picuris Pueblo Reservation	\$ 5,148.00	\$ 1,326.00	08-10-77	Stuart
185-2H	281-541-100	Public Service Co.	San Ildefonso Survey	\$ 1,125.00	\$ 265.00	08-12-77	Stuart Gauthi
185-12		Woodward Clyde	Archeological Survey - Black, Red, Blue, Green Rights-of-way	A \$ 52,583.00 B \$ 34,066.00 C \$ 2,888.00 D \$ 4,863.00		08-11-77	Broillo Fosber
185-13	not awarded	El Paso Comm. Coll.	Mitigation - Transmountain Campus	\$ 78,975.00	\$ 9,176.00	08-26-77	Fosber
185-2I	281-541-100	United Nuclear	Demarcation of arch. sites w/in 5 mine sites, Dalton Pass	\$ 210.00	\$ 27.00	09-02-77	Fosber
185-14 A	281-611-100	BLM	Cultural Resource Inventory, Las Cruces Dist.	\$ 24,829.00		09-02-77	LeBlanc
185-15	281-609-100	Anaconda	Arch. Mitigation, DM:2, AI-1, OC:5, and Locations 4, 5, 6 and 7	\$ 26,948.00	6,795.00	09-12-77	Fosberg
185-2J	281-541-100	Kerr-McGee	Intensive survey of 2 linear tracts of land on Kerr-McGee and BLM lands	\$ 1,158.00	\$ 273.00	09-19-77	Fosberg
.01-152B	281-492-100	BIA	Yellowhouse transfer of funds	-----	\$ 145.00	09-28-77	Broillo
85-16	281-606-100	NPS - Chaco	Chaco Center Analysis	\$ 94,987.00	\$12,390.00	09-28-77	Broillo
85-17	281-605-100	NPS - Remote Sensing	Remote Sensing Division Analysis	\$ 37,887.00	\$ 4,942.00	09-28-77	Broillo

POS #	ACCOUNT NO.	AGENT	PROJECT	AMOUNT	OVERHEAD	DATE	BY
185-2K	281-541-100	Kerr-McGee Nuclear	Intensive survey of land on Kerr-McGee/BLM lands	\$1,489.00	\$ 348.00	10-17-77	Harlan
185-18	281-621-100	Continental Oil	Linear Survey of 12.4 miles on Navajo Tribal lands & Laguna Pueblo Lands	\$2,105.00	\$ 491.00	10-19-77	Harlan
185-19	281-615-100	Public Service Co.	Arch. Survey of 13.5 Linear Miles on Santa Clara Pueblo Lands & Private Grant Lands	\$1,610.00	\$ 396.00	10-31-77	Harlan
185-20		US Forest Service	Collection, Processing & Analysis of Arch. Data from US Forest Service Lands	\$15,349.00	\$2,590.00	10-31-77	Broilo
185-21A	281-615-100	Pub. Service Co.	Amendment to 185-19	809.00	\$ 239.00	11-07-77	Harlan
185-2L	281-541-100	United Nuclear	Arch. Survey of 7.5 linear miles in Dalton Pass for power line clearance	\$1,104.00	\$ 228.00	11-07-77	Harlan
185-2M	281-541-100	Salt River Project	Arch. Survey of Approx. 15 Proposed Drill Sites	\$ 827.00	\$ 133.00	11-16-77	Harlan
185-2N	281-541-100	US Forest Service	Excavation of Site AR-03=06-05-120	\$ 143.75	\$ 48.00	11-29-77	Harlan
185-2O	281-541-100	Riconada Canyon Proj	Arch. Survey, 9 drilling locations & access rd	\$ 992.00	\$ 205.00	12-02-77	Broilo
185-2P	281-541-100	United Nuclear	Arch. survey of 1.2 sections of Dalton Pass property	\$1,492.00	\$ 324.00	12-14-77	Harlan
185-2Q	281-541-100	United Nuclear	Arch. Survey of 1.8 miles	\$ 729.00	\$ 157.00	1-13-78	Harlan
101-172A	281-369-	Utah International	Mitigation plan for 101-172	\$ 250.00		1-18-78	Broilo
185-2R	281-541-100	Frontier Mining	Arch. survey of 2 drilling locations	\$ 642.00	\$ 109.00	2-13-78	Harlan
185-2S	281-541-100	Akla, Inc.	Arch. Surv. 10 Drill Sites, Borrego Pass	\$1,270.00	\$ 252.00	2-22-78	Harlan
185-2T	281-541-100	Polumbus, Inc.	Arch. survey, 14 drill sites, Rio Arriba Co.	\$1,496.00	\$ 198.00	2-23-78	Harlan
185-21		Utah International	Mitigation Plan for 611.8 acres, Mining Strip 3	\$183,175.00	\$47,714.00	1-31-78	Broilo
	281-642-100		Cochiti Publication Account				Kemrer
185-22		Public Service Co.	Budget Estimate for Services	indef.	indef.	3-12-78	Harlan
185-23		Bureau of Indian Af.	Arch. Testing of 3 Localities	\$2,601.00	\$641.00	3-15-78	Harlan
185-2U	281-541-100	Public Service Co.	Survey of Two' Power Lines	\$1,389.00	\$300.00	4-3-78	Harlan
185-24		City of Albuquerque	Arch. Surv. of 7 Parks--Improvement Projects	\$2,085.00	\$560.00	4-5-78	Harlan
185-2V	281-541-100	Anaconda Co.	Arch. Survey of 10 Drill Sites	\$1447.00	\$300.00	4-6-78	Harlan

PDS #	ACCOUNT NO.	AGENT	PROJECT	AMOUNT	OVERHEAD	DATE	BY
183-2W	281-541-100	D.E. Brown	Archeological Survey of 0.5 Acres	\$ 343.00	\$ 72.00	4-26-78	Harlan
185-25		BLM	Phase I Assessment of Roswell District of BLM	\$26693.00	\$6664.00	5-15-78	Harlan
185-2X	281-668-1	Pub. Serv. Co. of NM	Archeological Survey of 9 Quality Control Wells	\$ 617.00	\$ 158.00	5-18-78	Harlan
185-2Y		The Anaconda Co.	Archeological Survey of the Hosta Butte Area	\$ 392.00	\$ 68.00	5-18-78	Harlan
185-26		Int.-BIA	San Juan Basin Regional Uranium Study	\$7,000.00	\$ 913.00	5-18-78	Brailo
185-27		U.S. Army	Survey of 200,000 Acres--Fort Bliss Military	\$857,616.00	\$194,230.00	5-26-78	Brailo
185-28		Pittsburg Midway Co.	A Program--Archeological and Ethnohistoric	\$402,598.00	\$ 84,127.00	5-26-78	Stuart
185-2Z		BIA	Reproduction of the Yellow House Site Inventory	\$ 360.00		6-1-78	Harlan
185-2AA		Duval Corporation	Arch. Survey of Approx. 0.6 Sections of land	\$1,951.00	\$ 407.00	6-6-78	Harlan
185-2BB		Mr. Wayne W. Hickson	Arch. Survey of One Drill Hole--Cibola Nat'l	\$ 323.00	\$ 62.00	6-6-78	Harlan
185-2CC		The Anaconda Co.	Arch. Survey	\$2,120.00	\$ 431.00	6-14-78	Harlan
185-29		The Tennessee Valley	Est. Chgs. per Proj. Day of Arch. Services				Harlan
185-30		Pub. Serv.--Union Oil	Arch. Survey Approx. 2.96 Sects. Baca Geothm	\$ 11,695.00	\$ 2,624.00	6-22-78	Harlan
185-2DD		Pub. Serv. Co. N.M.	Arch. Survey WW-BA 345 KV Transmission Line	\$ 424.00	\$ 83.00	6-22-78	Harlan
185-2EE		The Anaconda Co.	Arch. Test. Site OCA:SH:1; Locality 2, Jackpile/	448.00	\$ 82.00	6-28-78	Harlan
185-2FF		Ideal Cement Co.	Arch. Survey of Approximately 10 Acres	\$ 623.00	\$ 126.00	7-11-78	Harlan
185-31		The Anaconda Company	Arch. Surv. Approx. 3836.19 Acres on Jackpile/	\$ 20,892.00	\$ 4,740.00	6-28-78	Harlan
185-32	281-668-1	El Paso Natural Gas Company	Arch. Surv. & Assess. of Approx. 16,016.77 Acr	\$100,758.00	\$ 21,974.00	7-18-78	Harlan
185-2GG		Mountain Bell	Arch. Surv. of Approx. 4 linear miles of Cable	\$ 575.00	\$ 129.00	7-27-78	Harlan

The Report of the Maxwell Museum of Anthropology
Department of Anthropology
July 1, 1977--June 30, 1978
J.J. Brody, Director

I. Significant achievements during fiscal 1977-78.

The museum was used as a teaching laboratory on a regular basis by six UNM classes and on occasion by eight others. Several dozen other UNM classes were assigned to visit and report on its exhibitions and materials from its collections were transported to several classrooms for instructional use. Two professional colloquia by visiting scholars were held there. Significant new and valuable research resources were added with acquisition of the Mimbres Foundation collections and its photographic files and other archives. One thesis and more than eighteen other student research papers based on the museum or its collections are known to have been written. The museum (with UNM Press) published two new books.

Specialized services performed at the museum and/or by its staff included identification, conservation, restoration, archaeological analyses, and osteological removal and analysis done for the UNM Field School, the Bernalillo County Medical Examiner, the National Park Service, United States Forest Service, New Mexico Highlands University and other government agencies. We estimate an increase of about 25% over the previous year in services performed for UNM classroom teaching, in research and in professional service activities.

Use of the museum by public school groups reached a new high: total museum attendance rose to about 53,000 and most

school services were performed by volunteers trained by the museum staff. Costs (excluding staff salaries) were absorbed by grants from the Maxwell Museum Association and APS. The minimuseum exhibits at the Galeria (in space donated by the First National Bank) continued as an Association sponsored activity. Four major temporary exhibitions were installed and the first phase of exhibit renovation of the old gallery was completed.

II. Significant plans and recommendations for the near future.

Integration of the museum as a Department of Anthropology teaching and research resource will accelerate. Research programs focussed on our sandpainting and Southwestern archaeological collections are scheduled to begin late in 1978, all under the direction of faculty members also holding curatorial positions in the museum. Half of the exhibits scheduled for the next three years are to be based on faculty research and organized by departmental faculty and students.

Acquisition by the department of the Terrace Street laboratory should solve pressing laboratory and storage needs of the Physical Anthropology division of the museum and should also relieve stress on the Mimbres Foundation and provide some student research space. A new warehouse to be built on South Campus and shared with the National Park Service will solve collection storage problems for the foreseeable future.

Plans for the final phase of renovation of the old gallery will be completed about May, 1979, and installation will begin during that summer. That renovation should be finished as

meetings for the Museum Store Association:

- Board of Directors meeting, New York City, New York, August, 1977.
- Board of Directors meeting, Winter Park, Florida, January, 1978.
- Annual Convention, Seattle, May, 1978.

Chairman: "American Indian Art" panel, Trade Show, Museum Store Displays. Member: Policy Committee, Board of Directors, candidate for Treasurer.

Brody, J.J.--Director--Attended an ad hoc conference of anthropology museum directors in Phoenix, Arizona, in March; served on the Governor's Paleontological Task Force; curated the R.O. Anderson exhibition for ARCO Gallery, Los Angeles; juried an Indian Art exhibition for the Wheelwright Museum; served on advisory boards of Mimbres Valley Museum, Ghost Ranch Museum; editorial board Indian Arts Magazine.

Madden, Molly--Education Director--Guest Lecturer for APS sponsored University of Denver extension course, "Teaching New Mexico History," in March and May, 1978; television interview in May, 1978; attended Mountain Plains Museums Annual Conference, Denver, Colorado, October, 1977; attended New Mexico Council for the Social Studies Conference, Las Cruces, New Mexico, April, 1978. Panel member: "Teaching History in Secondary and Elementary Schools."

Rhine, J. Stanley--Curator of Physical Anthropology--Participated in road team trips to Lincoln, Santa Fe, and Las Vegas, New Mexico, to investigate skeletal remains;

quickly as possible. Meanwhile, greater departmental use of the museum will place stress on its support staff therefore only three (rather than four) new exhibits will be planned annually for the next few years. At least one scholarly exhibition catalog will be published annually. The Museum Association can be expected to continue its financial support of the public school education program and negotiations with APS to increase its share of the load appear to be going well.

III. Appointments to staff.

Bahm, Linda--Administrative Assistant--7/25/77

Bauer, Maria--Assistant Curator, Mimbres Collection--6/22/78

LeBlanc, Steven--Assoc. Curator, Mimbres Collection--11/1/77

Nusbaum, Sally--Department Secretary--11/16/77

Pattison, Natalie--Assistant Registrar--2/1/78

IV. Separations from staff.

Black, Sally--Administrative Assistant--12/1/77

Briggs, Peter--Assistant Registrar--6/30/78

Kindell, Kathleen--Museum Secretary--11/13/78

V. Museum Publications

Lister, Robert H. and Florence C.

1978 Anasazi Pottery, UNM Press, Albuquerque.

Rodee, Marian

1977 Southwestern Weaving, UNM Press, Albuquerque

VI. Outside professional activities of staff members.

Bahm, Linda--Administrative Assistant--Attended Mountain Plains Museums Annual Conference, Denver, Colorado, October, 1977.

Barsook, Beverly--Giftshop Manager--Attended the following:

attended and presented a paper at the 1st Pan-American conference of INFORM in Mexico City, Mexico.

Rodee, Marian--Registrar, Curator of Collections--Guest Lecturer for American Foresters, "Southwestern Arts and Crafts," in September, 1977; lectured on "Southwestern Weaving," for Maxwell Museum Association, March, 1978; Television interview UNM "Voices," April, 1978; attended Mountain Plains Museums Annual Conference in Denver, Colorado, October, 1977. Program chair for Registrars' Committee.

VII. Outside-sponsored research.

- A. Albuquerque Public Schools: Funds in support of museum education program, \$2500, July, 1977--June, 1978.

- B. Maxwell Museum Association: Support for the following:

Education Program: \$1200

Galeria Mini-exhibits: \$300

Prehistoric Jewelry Exhibit: \$955

July, 1977--June, 1978

- C. NEA: Photographic Catalogue of Mimbres Archaeological Material: \$20,000, October, 1977--August, 1979.

- D. U.S. Army Corps of Engineers: Display cases at Cochiti Lake Visitors Center: \$1800, June, 1977--December, 1977.

The Report of the Journal of Anthropological Research

July 1, 1977-June 30, 1978

J.N. Spuhler, Editor

The 33rd, 1977 volume of the Journal of Anthropological Research was the first volume since 1960 with more than 500 pages. Volume 33 contained 27 articles in 509 pages. Publication of the 90 additional pages was made possible by preparation of camera-ready copy for seven articles, as well as for all tables, figures, maps, and book reviews on the Journal's IBM Electronic Selectronic Composer.

Classified by discipline, 23 articles in the volume deal with cultural-social anthropology in keeping with long-term proportions of manuscripts submitted to and published by the JAR. One paper concerns archaeology, two pertain to biological anthropology, and one is on linguistics. Geographically, five of the 27 articles are of general or world application, seven are on Africa, one about the Middle East, three concern North America (one the American Southwest), four deal with Latin America, five concern Asia (one the Far East), one treats of Europe, and one is on Oceania.

Manuscripts submitted during the year totalled 99, a number approximating the 97 received last year, and continuing the reduction from the 119 received in 1974-75, and the Journal's maximum of 136 manuscripts reviewed in 1972-73. In part the continued decrease reflects the drop in federal support of anthropological and other behavioral science research during the past several years.

Subscriptions at the close of the fiscal year totalled 2246, including 82 new orders. This year's total is 14 more than last year. Foreign subscriptions now constitute 37 percent and institutional subscriptions 58 percent of our

total distribution.

Journal income for the fiscal year amounted to \$20,330.66; production and mailing expenses totaled \$23,632.25. The income included \$427 from sale of back issues, \$186 from author's reprints, \$250 in permission fees for five reprinted articles, and \$870 in royalties for reprinted and microfilmed volumes.

Starting with volume 35, Spring issue 1979, the subscription for individuals will be raised from \$7.00 to \$10.00, and for institutions from \$12.00 to \$16.00 per volume. We hope that the additional income will meet most of the increasing costs of paper, ink, and postage.

In addition to the Co-Editors (Professors L.R. Binford, P.K. Bock, A. Ortiz, and Dean B. Spolsky) the following members of the Department of Anthropology received manuscripts for the Journal during the year: Drs. Richard Barrett, Caroline Bledsoe, J.J. Brody, Linda Cordell, Patricia Draper, Henry Harpending, W. James Judge, Louise Lamphere, E. Scott Rushforth, Jeremy Sabloff, James Sebring, and Lawrence Straus. The contribution in reviewing manuscripts of Professor Harry Basehart (former Editor) continues to be substantial and most helpful.

Ms. Elizabeth Gard continued to serve as copy editor for the JAR on an hourly basis. Her work greatly reduces the editorial task of seeing a volume through the printing plant.

Ms. Nancy Moran continued as Subscriptions Manager of the Journal and as sometime proof reader and typist of editorial correspondence. As in the past, her performance is superior and she deserves high commendation.

Ms. Helen Costello, Secretary in the Department of Anthropology, typed editorial correspondence and composed camera-ready copy on our IBM Composer. Her skill allows the Journal to compose articles, tables, and figures in the

more attractive type fonts used in printing the Journal text, rather than by typewriter, as in recent previous issues.

The Journal continues to achieve outside recognition through requests for permission to reprint materials from our volumes, 23 authorizations to reprint were granted during the year.

A generous grant from Byron Harvey, III to the Department of Anthropology made possible the Harvey Distinguished Visiting Lecture Series during the academic years 1976-77 and 1977-78.

To date Harvey Lectures by Professors Albert Spaulding (Santa Barbara), Vorsila Bohrer (Eastern New Mexico), Fred Eggan (Chicago), François Bordes (Bordeaux), Jean-Philippe Rigaud (Bordeaux), and Glenn Isaacs (Berkeley) have been published in the Journal.

The Report of the Department of Biology

July 1, 1977 - June 30, 1978

Clifford S. Crawford, Chairman

I. General Departmental Information

A. Significant achievements during the academic year, 1977-78.

As with the previous academic year, the Biology Department continued in a stable manner to function according to organizational changes made in previous years.

No new faculty were added at the assistant professorial level. An extensive search which we conducted for an eminent senior-level person in environmental biology resulted in the hiring of John A. Wiens of Oregon State University. Professor Wiens' major interests include behavioral ecology, structure of vertebrate communities, ontogeny and adaptedness of habitat responses in vertebrates, the role of consumers in terrestrial ecosystems, simulation modelling of consumer energetics and behavior, and dynamics and trophic relationships of marine bird communities. He has an outstanding record in attracting students and grant support in these areas. For example, he established the Behavioral Ecology Laboratory at Oregon State, staffed largely by himself and his graduate students, which has

produced 66 publications in the last nine years. More-over his efforts have attracted over \$415,000 in research support during this period. We feel fortunate in having attracted Professor Wiens, and are confident that his presence will do a great deal to synergize this department's increasingly prominent graduate and undergraduate programs in ecology and evolution.

An organizational change within the department involved the resignation as chairman of Clifford S. Crawford, who will return to regular faculty duties. He will be replaced by James S. Findley. The selection of Professor Findley, a well-known evolutionary biologist and a member of the biology faculty since 1956, is an indication of the department's continued emphasis on excellence in the area of ecology and evolution.

Like other campus units, the Biology Department prepared a self-study report for North Central Accreditation. It is hoped the report will be of internal as well as external value since it contains a comprehensive summary of the department's recent activities, particularly in the past five years. It should be noted that in that period some 22 faculty members were awarded grants and contracts totalling nearly \$3 million, a figure that does not include funds granted to the Malaria Project. That project, scheduled to move elsewhere a year ago, will presumably leave the department in the summer of 1978, and will most likely be reassigned to another part of the UNM campus.

Bond-issue funds made available by the college dean enabled the purchase of badly needed instructional equipment totalling over \$140,000. A large proportion of these funds was spent on lower-division courses, the proper teaching of which is essential to the rest of the academic program. Bond-issue funds were also channelled toward a physical overhaul (mainly plumbing and electrical) of the Biology Annex. It is unfortunate that such major renovation could not have been undertaken during the transition period when the building was newly vacated by the College of Pharmacy. The present effort is both expensive and complex because the now relatively massive aquatic ecology program in the Annex is having to set up interim operations in a nearby building formerly occupied by the State Health Laboratories.

Academic support for non-environmental academic effort was strengthened by the appointment of an adjunct professor with a background in theoretical neurophysiology. Simultaneously and largely because of distance problems, an adjunct professor with an entomological background was dropped from the program.

The various divisions of the Museum of Southwestern Biology experienced a rapidly increasing rate of use not only by teaching and research personnel associated with the Department, but also by individuals from other sectors of the University and from other institutions. The Mammal Division of the Museum alone logged 67 visits from scientists

from 32 other institutions and loaned research materials from its holdings to 22 other universities.

B. Significant plans and recommendations for the near future.

In order to render more complete the department's undergraduate offerings, and at the same time to solidify its graduate emphasis in environmental biology, it is recommended that at least two new faculty members be added in the coming year. One person, most likely to be hired as an assistant professor, should be able to teach an undergraduate course in human anatomy and physiology for physical education majors. The Department of Health, Physical Education and Recreation in the College of Education strongly supports such an acquisition. The individual employed should be a highly recommended product of graduate training in some area of environmental biology, a broad field which can provide future faculty members competent to teach many kinds of non-environmental undergraduate courses.

With the assumption of the chairmanship by Professor Findley, his ability to carry out the responsibilities of Curator of Mammals in the Museum of Southwestern Biology is reduced, as is his role in the vertebrate biology teaching effort in the department. A second hiring, to fill this gap in a popular and centrally important part of our environmental program, should be of a mammalian ecologist or systematist with training in the management of a modern resource collection of mammalian materials.

Two new programs are to be implemented next year. One is a departmental honors curriculum, which will start off with a low but carefully regulated enrollment in existing courses and which will require a senior thesis. The other is a departmentally administered qualifying examination to be given to all incoming doctoral students during their first year of residence. These two programs have been discussed and debated for some years. We hope that they are now sufficiently refined to continue as rigorous additions to the undergraduate and graduate curricula, respectively.

Planning for space use is a never-ending activity because needs change with time. With the increasing emphasis on chemical ecology it is necessary to move the operations of Professor Rex G. Cates to Room 102 in the annex, and to use his vacated lab (Room 157) for personnel and activities in the general area of chemical ecology. The departure of the Malaria Project will free up laboratory space for two existing faculty members in cell and molecular biology: Professor John L. Trujillo will move from now cramped quarters in Room 155 to Room 243, while Professor Katherine G. Vogel will move her research operations from a vacant faculty office to Room 252. The space taken up by the Malaria Project office staff is planned for use by the senior environmental biologist and associated personnel, as well as for use by graduate teaching assistants.

C. Appointments to staff.

Dr. Evelyn Ewing was appointed, effective August, 1977, as Assistant Professor in the field of population genetics.

Dr. Kathryn Vogel was appointed, effective August, 1977, as Assistant Professor in the field of physiology-immunology.

Dr. John Wiens was appointed, effective August, 1978, as Professor in the field of behavioral ecology.

Dr. Robert Shlaer was appointed, effective April, 1978, as Adjunct Associate Professor in the field of neurobiology.

Dr. Elizabeth Pantle was appointed in January, 1978, for the Spring Semester, as Visiting Assistant Professor in the field of invertebrate zoology.

Dr. Jeanette Lysne was appointed for the 1978 Summer Session as Visiting Assistant Professor in the field of introductory biology.

D. Separations from staff.

Dr. Daniel Jennings, Adjunct Assistant Professor, effective April, 1978.

Alan Marchiondo, electron microscope technician, effective June, 1978.

II. Composite of Information Requested on Individual Biographical Supplements:

1. Advanced Study

None

2. Sabbaticals and Leaves

Altenbach, Scott J. Summer 1977, field work on nectar feeding bats, University of Arizona.

Degenhardt, William G. September 1976 - May 1977, research and travel in New Mexico.

Duszynski, Donald W. January 1977 - June 1977. Appointment as Visiting Associate Professor, Dept. of Microbiology University of Texas Medical Branch, Galveston.

Kidd, David E. Miscellaneous travel to southwestern reservoirs for research and consulting; travel to Atlanta Ga., Syracuse New York.

Kogoma, Tokio. July 1977 - August 1977, international meeting, Italy.

Ligon, David J. January 1977 - July 1977. Research in Kenya.

Martin, William C. Investigation of endangered species-montane areas of Oahu and Kauai, Summer, Hawaii; with expedition from museum of Nat. Hist., Los Angeles.

Thornhill, Randy. July 1977 - August 1977, summer teaching, University of Virginia.

Trujillo, John L. February 1978. Worked with Dr. Nicolii--laser light scattering, Santa Barbara, Dept. of Physics

3. New scholastic honors, fellowships, etc.

Crawford, Clifford S. Member, Editorial Board, Journal of Arid Environment.

Degenhardt, William G. Chi Omega Faculty Appreciation Dinner.

Kidd, David E. NSF-AAAS Chautaugua Lecturer for Secondary Teachers, Spring 1977.

Ligon, J. David. Grant from The National Geographic Society.

Taylor, Fritz W. Summer Research Stipend - 1978, Arts and Sciences, University of New Mexico.

Trujillo, John L. NIH MBS Program UNM Granted \$65,000/3 year period.

4. Publications.

Altenbach, Scott J. (with K. Geluso and D. Wilson)
Bat Mortality: Pesticide Poisoning and Migratory Stress, *Science* 194:184-186. Sexual Color Dimorphism in Crotalus lepidus klauberi Gloyd 11(1): 81-84 with J. Jacob.

Baca, Oswald G. Abstracts of the Annual Meeting of the American Society for Microbiology, 77th Annual Meeting, New Orleans. Abstract #D13. "Rickettsial Ribosomes: Characterization of coxiella burnetii: Ribosomal Proteins by Two-dimensional Gel Electrophoresis and Protein Synthesis."

Barton, Larry. Nicotinamide adenine dinucleotide-independent formate dehydrogenase in Mycobacterium phlei. *Canad. J. Microbiol.* 23:125-130. 1977.
Evidence for the Presence of Phosphoribulose isomerase and Ribulose-1,5-diphosphate Carboxylase in Extracts of Desulfovibrio vulgaris. *J. Bacteriol.* 131:133-135.

Bruner, Sandra. Biology Laboratory Guide: From a molecular Viewpoint, 2nd Edition, 2nd Printing. Human Anatomy Lab in progress.

Caldwell, Douglas E. "The Planktonic Microflora of Lakes," C.R.C. Critical Reviews in Microbiology, 1977, Volume 5, pp. 305-370. "Bacteriological Characterization of Phytoplankton Cell Surfaces," Third International Symposium on Environmental Biogeochemistry. In press. Co-author S. J. Caldwell.
"Accessory Pigment Fluorescence for Quantitation of Photosynthetic Microbial Populations." Canadian Journal of Microbiology, 1977, Volume 13, pp. 1594-1597.

Cates, Rex. Evolution of Plant Chemical Defenses. IN Herbivores: Their Interaction with Secondary Plant Chemicals. D. Janzen & G. Rosenthal (eds.). 1978, Academic Press. Accepted and in Press. Co-author-- D. Rhoades.
Patterns in the production of antiherbivore chemical defenses in plant communities. 1977. Biochemical Systematics & Ecology, 5(3):185-193. Co-author: D. Rhoades.

- Crawford, Clifford S. "Anatomy and Histology of the Alimentary Tract of the Desert Millipede Orthoporus ornatus (Girard) (Diplopoda: Spirostreptidae)", Journal of Morphology, 1977, Volume 151, No. 1, pp. 121-130. Co-author: F. S. Nunez.
- Degenhardt, William G. "A Changing Environment: Documentation of Lizards and Plants Over a Decade.: Trans. of the Symposium in the Biological Resources of the Chihuahuan Desert Region (issued Dec. 1977--but have not seen yet) 30 Manuscript pages.
- Duszynski, Donald W. "Prevalance of antibodies to Toxoplasma gondii in wild and domestic animals of New Mexico, Arizona and Colorado," Veterinary Digest, 1977, January/February, p. 30. Co-author: A. A. Marchiondo.
- "Three new Eimeria spp. (Protozoa, Eimeriidae) from muskoxen, Ovibos moschatu with redescrptions of E. faurei, E. granulosa, and E. ovina from muskoxen and from a Rocky Mountain bighorn sheep, Ovis canadensis," Canadian Journal of Zoology, 1977, Volume 55, No. 6, pp. 990-999. Co-authors: W. M. Samuel, D. Gray.
- "The effects of heat and Cobalt-60 gamma-radiation on excystation of the rat coccidium, Eimeria nieschulzi Dieben, 1924," Journal of Protozoology, 1977, Volume 24, No. 1, pp. 177-181. Co-author: G. A. Conder.
- "Endoparasites" in: Biology of Bats of The New World Family Phyllostomatidae, Part II (R. J. Baker, J. K. Jones, D. C. Carter, eds.), 1977, Special Publication 13, Texas Tech University Press, Lubbock, pp. 7-56. Co-authors: J. E. Ubelaker, R. D. Specian.
- "The immunizing potential of sporulated oocysts of Eimeria nieschulzi exposed to heat and Co-60 gamma-radiation," Journal of Parasitology, 1977, Volume 63, No. 2, pp. 206-209. Co-author: G. A. Conder.
- "External factors and self-regulating mechanisms which may influence the sporulation of oocysts of the rat coccidium, Eimeria nieschulzi," International Journal of Parasitology, 1977, Volume 6, No. 1, pp. 83-88. Co-author: G. A. Conder.
- "Eimeria crotalviridis sp. n. from prairie rattlesnakes, Crotalus viridis viridis in New Mexico with data on excystation of sporozoites and ultrastructure of the oocyst wall," Journal of Protozoology, 1977, Volume 24, No. 3, pp. 359-361. Co-authors, M. J. Altenbach, A. A. Marchiondo, C. A. Speer.
- "Survey for Sarcocystis in the brown-headed cowbird (Molothrus ater): A comparison of macroscopic, microscopic and digestion techniques," Journal of Wildlife Diseases, 1977, Volume 13, No. 4, pp. 356-358. Co-author: E. D. Box.

- "Suppressed rejection of Trichinella spiralis in immunized rats concurrently infected with Eimeria nieschulzi," Journal of Parasitology, 1977, Volume 63, No. 6, in press. Co-authors: D. Russell, S. A. Roy, G. A. Castro.
- "Permanent light microscopy slides of Eimeria nieschulzi oocysts," Journal of Parasitology, 1977, Volume 63, No. 6, in press. Co-author: A. A. Marchiondo.
- Ewing, Evelyn P. "Selection at the Haploid and Diploid Phases: Cycleral Variation," 1977, Genetics 87: 195-208.
- Findley, James S. Thyroptera tricolor. Mammalian Species, 71:1-3 June 1977. (With D. E. Wilson).
- Gosz, James. Effects of timber stand maturity and management on some stream organic compounds. Tech. Report - U. S. Forest Service.
- Influence of road salting on nutrient heavy metal levels in stream water, Tech. Report - WRRRI.
- Effects of ski area development and use on stream water quality, Forest Science 23:67-179.
- Johnson, Gordon V. Vegetative propagation of desert saltgrass rhizomes. J. Range Management 30:377-79 (with K. A. Pavlicek and E. F. Aldon).
- Kidd, David E. "Interdependence in biology," Interdependence An Interdisciplinary Study, Ed. A. J. Bahm, Chapter 3, 1977, pp. 28-33, World Books, Albuquerque.
- "Application of the Nutrient Loading Concept and Effects of Nutrient Perturbations on Phytoplankton Productivity, Lake Powell Research Project Bulletin, No. 59, in press (with S. Gloss).
- "The Physical, Chemical, and Biological Limnology of Lake Powell," NSF-RANN Symposium II Proceedings, 1977, in press.
- "Trophic Status and Production Dynamics of Lake Powell, Lake Powell Research Project Bulletin, No. 60, in press, (with G. Hensmann and S. Gloss).
- Kogoma Tokio. "A New Escherichia coli Mutant Capable of DNA Replication in the Absence of Protein Synthesis," Journal of Molecular Biology (in press).
- Martin, William C. Chemotaxonomy of Ribes. The Southwestern Naturalist 21(4):523-530. 1977. (with John Mexal).

Molles, Manuel C. "Fish Species Diversity on Model and Natural Patch Reefs: Experimental Insular Biogeography: Ecology. In Press.
 "Habitat Alteration, Introduced Species and the Native Fishes of the Upper Colorado River Basin: A Problem of Insular Biogeography?" Proceedings of a Symposium on Energy Development and the Colorado River (Sponsored by the U.S. Fish and Wildlife Service). In Press.
Review of Alabaster, J. S. Biological Monitoring of Inland Fisheries, in Journal of Water Air and Soil Pollution. In Press.

Potter, Loren D. Macroinvertebrates and diatoms on submerged bottom substrates, Lake Powell. Lake Powell Research, NSF-RANN Bulletin No. 37, 43 p. 1977. (With Ellen Louderbough).
 Shoreline surface materials and geologic strata, Lake Powell. Lake Powell Research, NSF-RANN Bulletin No. 44, 52 p. 1977. (With N. B. Pattison).
 Prehistoric and historic steps and trails of Glen Canyon - Lake Powell. Lake Powell Research, NSF-RANN Bulletin No. 45, 82 p. 1977. (With N. B. Pattison).
 The concentrations of ten heavy metals in some selected Lake Powell game fishes. Lake Powell Research, NSF-RANN Bulletin No. 34, 72p. 1976. (With R. E. Bussey and D. E. Kidd).
 Vegetative stabilization of uranium spoils areas, pp. 67-69. In Biomedical and environmental research program of the LASL Health Division, Jan. - Dec. 1976. LA-6898-PR. 1977. (With E. Kelley and C. L. Wienke).

Riedesel, Marvin L. "Dissipation of stored body heat by the ornate box turtle, Terrapene ornata. Comp Biochem Physiol 58A:93-97 (1977) First author: B. A. Sturbaum.

Taylor, Fritz W. Foraging behavior of ants: Experiments with two species of myrmecine ants. Behav. Ecol. Sociobio. 2:147-167 (1977).
 Foraging behavior of ants: Theoretical considerations. J. Theor. Bio.
 Approach to stable age distribution in populations of insects. Am. Nat. in press.
 Applicability of current models of population growth to insects. Rocky Mountain J. Math, in press.

Thornhill, Randy. "The comparative Predatory and Sexual Behavior of Hangingflies (Mecoptera:Bittacidae)," Occasional Papers, Museum of Zoology, University of Michigan, 1977, No. 677, pp. 1-43.

Thornhill, Randy. (cont.) "Male and Female Selection and the Evolution of Mating Strategies in Insects," In M. Blum ed., Reproductive Competition, Mate Choice and Sexual Selection, Academic Press (in press).

Toolson, Eric C. Cuticular permeability and epicuticular lipid composition in two Arizona vejovid scorpions. *Physiol. Zool.* 50:323-330. 1977. (With N. F. Hadley).

Trujillo, John L. Purification from pig liver of a PFK Stabilizing Factor submitted to Biophysical Biochemical Research Communications. Asymmetric Properties: Pig Liver PFK. *Biochemistry*. July 1977 p. 309B.

Vogel, Kathryn G. "Cell Surface Glycosaminoglycans: Identification and Organization in Cultured Human Embryo Fibroblasts" 1977, Journal of Cellular Physiology, Volume 92, pp. 469-480. Co-author: Robert O. Kelley

5. Creative work and research in progress.

Altenbach, Scott J. Ongoing Research in Bat Locomotion. Ongoing Research on Bat Population at Carlsbad Caverns, New Mexico.

Baca, Oswald G. National Science Foundation \$50,300.00 "Coxiella burneti: its lipopolysaccharide and attachment and entry into host cells. July 1977 to December 1979. National Institutes of Health \$32,368.00 "Interaction of Coxiella burneti with cells of low phagocytic activity" August 1977 to August 1980. NSF Research Equipment Grant \$45,000.00 with Drs. Larry Barton, Paul Kerkof, Tokio Kogoma and John Trujillo, April 1977 - September 1978.

Barton, Larry. NSF Grant \$45,000 for purchase of Ultra-Centrifuge and Spectrophotometer (with Kerkoff, Baca, Trujillo and Kogoma). \$19,771 from Water Resources Research Institute for Role of N, P, and Fe in occurrence of Algal blooms at Abiquiu and Cochiti Reservoirs, (with Gordon Johnson). Evolution of New Mexico Humate Deposits for Restoration of Mine Spoils from Energy Research Board for \$58,175 (with Potter and Gosz). Characterization of Algal blooms at Abiquiu and Cochiti Reservoir, Water Resources Research Inst., \$18,987 (with Gordon Johnson).

Bourne Earl W. Isolation of Cancer Associate Antigens from cultured cells.
 Development of radiopharmaceutical for Detection of Blood Cells.
 Development of Improved Radiopharmaceutical for Brain Scans.

Caldwell, Douglas E. Text in progress. Environmental Microbiology: The Role of Microorganisms in the Maintenance of the Biosphere.
 "New Approaches to Phytoplankton Ecology," a seminar given at Texas A and M University, June 1977.
 Review of confidential grant proposals submitted to the National Science Foundation.

Cates, Rex. Effects of foliage quality on DFTM larval growth and mortality characteristics. USA, Forest Service, \$9,000.00, 1 year. 1977.

Crawford, Clifford S. Continuing research on the biology of desert millipedes.

Degenhardt, William G. Completed study of the Animas Mountains Rattlesnake (F & W, 4700).
 Continuing studies of state herpetofauna.
 Continuing biotelemetric monitoring of Bosque turtles (Jacob Dissertation grant, NSF, 3000).

Duszynski, Donald W. Have 3 papers accepted (1 by J. Parasit.; 2 by J. Protozool.) in press for 1978.
 2 papers submitted to journals (1 by J. Parasit.; 1 by J. Protozool.).
 4 papers in various stages of completion based on research finished during my 1976-77 sabbatical leave.

Findley, James S. Ecological morphology of Zambian Bats. (in progress).
 Status of Barticonyteris daviesi (in manuscript form).
 Hawaiian hoary bats (in progress).
 Genetic and morphologic variability of Trinidad bats (in progress).
 Information processing and brain size in bats (in progress).
 Vertebrate Survey of Sierra Blanca \$14,000, Bureau of Indian Affairs, one year.

Gosz, James. An experimental and comparative investigation into factors controlling nutrient losses NSF \$65,000, 2 years.

- Gosz, James. (cont.) Nutrient changes in soil following fires, U.S.D.A., \$3,000, 1 year.
Nutrient and heavy metal transport capability of sediments in the Southwest Eisenhower Consortium, \$30,000.
Influence of recreational pressure on wildlife, Fish & Wildlife Service, \$199,950, 3 years.
- Johnson, Gordon V. Water Resources Research Institute, \$15,987, Characterization of nutrients and algal blooms at Abiquiu and Cochiti Reservoirs (with Barton), July 1976 - August 1977.
Role of nitrogen, phosphorus, and iron in occurrence of algal blooms at Abiquiu and Cochiti Reservoirs, \$19,771, (with Barton), October 1977-August 1978.
Precondition requirements of fourwing salt bush transplants, January 1975 - June 1977, U. S. Forest Service, \$15,000.
Toxic metal, salt tolerance and ionic interaction effects on the germination of alkali sacaton and fourwing saltbush, June 1975 - December 1977, \$13,000.
Germination and moisture requirements of arid land plants (with Martin), April 1974 - June 1977, \$20,000.
- Johnson, William W. Genetics of mating speed and competition for mates in selected stocks of Drosophila melanogaster.
- Kerkof, Paul P. Mechanism of Action of Thyroid-Stimulating Hormone, National Science Foundation, \$37,400, September 1975 - August 1978.
The Action of Thyroid-Stimulating Hormone on Thyroid Gland Cells in Culture, National Institutes of Health, \$54,873, August 1977 - July 1980.
National Science Foundation Research Equipment Grant \$45,000 plus \$21,000 cost sharing from UNM April 1977 - September 1978, (with Drs. Barton, Kogoma, Trujillo, and Baca).
- Kidd, David E. Heavy metal, NSF-RANN, \$16,720 (with L. D. Potter), 1976-77.
Biological Limnology of Lake Powell, NSF-RANN \$16,720, 1976-77.
Biological Availability of Nitrogen in the influent water (Rio Grande) of Cochiti and Elephant Butte Reservoir, ETA-EDA (Title 208), \$39,000.
- Kogoma, Tokio. "DNA Replication in Bacteria: Regulatory Mutants", NIH, \$14,789, to April 1978.
"Genetic and Biochemical Studies on Stable DNA Replication in Escherichia coli," NIH, \$11,044, to August 1978.

Ligon, J. David. The adaptive significance of communality in the green woodhoopoe, Phoeniculus purpureus, NSF, \$31,400, June 1977 - May 1979.

Martin, William C. Completing Manuscript - Flora of New Mexico.
Beginning Flora of L.A. County.
Completed Floristic Assessment Mobil and Navaho properties - Crownpoint, \$24,000, 1 year.
Floristic assessment of Sierra Blanca Peak, \$7,821, 1 year.

Molles, Manuel C. Habitat Stability and the Riversity of Stream Insects, U. S. Forest Service, \$2,875.62.
Recovery of Stream Benthos from Disturbance Resulting from a Natural Flood. August 1977 - January 1979.

Potter, Loren D. Shoreline ecology of Lake Powell, NSF-RANN, \$17,920, December 1976 - December 1977.
Heavy metals in Lake Powell ecosystem, NSF-RANN, \$16,720 December 1976 - December 1977 (shared with D. Kidd).
Effect of stripmining of coal, U. S. Forest Service, June 1975 - December 1977, \$25,000.
Rehabilitation of mine spoil banks, U.S. Forest Service, June 1975 - December 1977, \$12,000.
Vegetational stabilization of uranium spoils areas, Grants, New Mexico ERDA, \$19,600, October 1976 - October 1977. Renewed for \$19,789 for October 1977 - October 1978.
Fire ecology, Bandelier National Monument, NPS, \$7,564, May 1976 - February 1978.
Chemical and physical characteristics of Mancos shale soils and their inhibitive effect on plant growth, U. S. Forest Service, \$25,000, May 1977 - December 1978.
Evaluation and organization of Eisenhower Consortium research on water quality and quantity, U. S. Forest Service, \$9,000, September 1977 - September 1978.
Competition between burro and deer, Bandelier National Monument, NSP, Santa Fe.
Heavy metals in Lake Powell ecosystem NSF-RANN Bulletin.
Vegetational succession on coal mine spoils, U. S. Forest Service.
Vegetational stabilization of uranium spoils areas, Grants, New Mexico, ERDA.
An evaluation of New Mexico humate deposits for restoration of strip-mining sites, New Mexico Energy Resources Board (shared with Gosz and Barton).
Correlation of indicator plants and archeological sites, Chaco Canyon National Monument, Submitted to the Southwestern Naturalist.

Riedesel, Marvin L. Hibernation of pinealectomized ground squirrels following treatment with melatonin and n-acetylserotonin. Cryobiology submitted for publication 1977. First author: Joy W. Brandon; Second author: Delphi M. Toth. "Pilot Studies of Respiration in Mammalian Hibernators", UNM Research Allocation Committee Grant \$1,000, October 14, 1977 - June 15, 1978.

Taylor, Fritz W. Populations in seasonal environments: Adaptive significance of the diapause induction methods in the pea aphids, NSF, November 1977. Theoretical work continues on models of insect populations in seasonal environments. Project coordinator - Faculty participant, NIH funded Minority Access to Research Careers (MARC) through Department of Mathematics.

Thornhill, Randy. Sexual Selection and Mating Behavior in Insects, NSF Grant, \$35,000, 2 years, June 1977 - November 1979.

Trujillo, John L. Protein Interaction of PFK - FD Pase from Pig Liver.

Vogel, Kathryn G. "Cell surface Glycosaminoglycans: Their Composition, Organization and Aggregation in Cultured Human Fibroblasts," Research Allocations Committee, \$1,000, September, 1977 - June 1978.

6. Activities in learned and professional societies.

Altenbach, Scott, J. Photographic Evidence for Oral Emission of Echolocation sounds in certain Phyllostomatid bats. Paper at 8th Ann. Symp. on rat Res. in North America Ottawa, Canada, October, 14, 1977.

Baca, Oswald G. Paper presented at 1977 Annual Meeting of the American Society for Microbiology, New Orleans, May 1977, "Rickettsial Ribosomal: Characterization of Coxiella burnetii ribosomal proteins by Two-dimensional Gel electrophoresis." American Society for Microbiology conference on Mechanisms of Microbial virulence Clear Water, Florida, December, 1977

Barton, Larry. Attended 5th Life Sciences Symposium at Los Alamos Scientific Laboratory. October 12-14, 1977. Attended Regional Meeting of American Society for Microbiology-Las Cruces, NM presented two papers: Characteristics of Sulfate by Aspergillus niger. A study of Intracellular inclusion bodies in Desulfovibrio gigas.

Bourne, Earl W. American Association Cell Biology

Caldwell, Douglas E. Presided with J. M. Bollag over the Estuarine Process and Pollutants session at the 1977 National Meetings of the American Society for Microbiology.

"Laboratory and In Situ Characterization of Bacteria Associated with a Bloom of Anabaena flos-aquae," a paper presented at the National Meeting of the American Society for Microbiology, May 1977.

Cates, Rex. "Tree physiology and Spruce-Budworm Population Dynamics," a discussion presented at Spruce Budworm Planning Mtgs, Portland, Oregon, USDA-FS, December 1977.

Invitation to present a seminar at the University of Alberta, Canada, "Evolution of Plant Chemical Defenses," December 2, 1977.

Invitation to present seminars at Colorado State University. "Tree physiology, chemical defenses, and the population dynamics of forest pests": and "Patterns in the production of antiherbivore

chemical defenses within species, November 9-11. Invitation to present a seminar at University of California Irvine Campus. "Desert Plant Chemical Defenses Against Herbivores," October 31-November 1.

"Patterns in the production of antiherbivore chemical defenses in plant communities," a paper presented at the Rocky Mountain Guild of Population Biologists, September 1977.

"Biological control of bark beetles: Tree physiology, tree defenses, and bark beetle population dynamics: a paper presented at the Rocky Mountain Bark Beetle Symposium, May 1977.

Degenhardt, William G. Served on executive council of Herpetologists League.

Served as parliamentarian and on executive council of N.M. Herpetological Society.

Duszynski, Donald W. "Altered immunity to Trichinella spiralis in rats infected with the intracellular protozoan, Eimeria nieschulzi," a paper presented at 10th Annual Meeting, Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, April 1977.

"Suppressed rejection of Trichinella spiralis in immunized rats concurrently infected with Eimeria nieschulzi," a paper presented at 9th Annual Meeting, Rocky Mountain Conference of Parasitologists (RMCP), Missoula, Montana, May 1977.

- Duszynski, Donald W. (cont.) "Intestinal disaccharidase and peroxidase deficiencies during Eimeria nieschulzi infection in rats," a paper presented at RMCP, Missoula, Montana, 1977.
- "Suppression of intestinal disaccharidase and peroxidase during Eimeria nieschulzi infections in rats," a paper presented at 52nd Annual Meeting, American Society of Parasitologists, Las Vegas, Nevada, August, 1977.
- "Intestinal pathophysiology during Eimeria nieschulzi infection in the rat," an invited paper presented at 13th Annual Coccidiosis Conference, Las Vegas, Nevada, August, 1977.
- Findley, James S. "Morphological feeding ecology of Zambian Bats," paper read at Ann. Mtg. Amer. Soc. Mammalogists, East Lansing, Michigan, June 1977.
- "Chiropteran abundance in two worlds: are bats rare in Africa?" Paper read at North American Bat Research Symposium Ottawa, Canada, October 1977.
- Board of Directors, American Society of Mammalogists.
- Ecological Morphology - invited paper at 11th International Symposium on Numerical Taxonomy, Madison, Wisc., October 1977.
- Gosz, James. Paper read AIBS National Meeting, East Lansing, Michigan.
- Paper read AIBS National Meeting, East Lansing, Michigan.
- Session Chairman AIBS National Meeting, East Lansing, Michigan.
- Paper read AAAS National Meeting, Denver, Colo.
- Paper read U.S. Fish and Wildlife Service, Denver, Colo.
- Johnson, Gordon V. Paper presented at Annual Meeting of American Society for Advancement of Science, February 1977, Denver, Colo.: The effects of salts and metals on germination of Atriplex canescens (Pursh) Nutt. and Sporobolus airoides Torr," presented by R. Edgar, Vice Chairman Botanical Section, SWARM AAAS.
- Kidd, David E. Invited paper, "Heavy Metals in Lake Powell," Air pollution meeting, Flagstaff, Arizona, September 1977.

Kogoma, Tokio. "Cell Division and the DNA Replicated in the Absence of Protein Synthesis in an Sdr^c Mutant of E. coli": (co-authors: Gantz and Alizadeh), presented at the annual meeting of American Society for Microbiology, May 1977.
 "Stabilized Initiation Activity of DNA Replication in an Sdr^c Mutant of E. coli , (co-authors: Connaughton and Alizadeh), presented at the NATO-ASI meeting on DNA synthesis, July 1977.
 "E. coli Mutants Capable of DNA Replication in the Absence of RNA Synthesis" (co-author: Torrey), and "Induced Stable DNA Replication as a Possible SOS Function" (co-author: Connaughton) presented at the ASM New Mexico branch meeting, October 1977.

Martin, William C. Nominations Committee, A.A.A.S., Southwestern Division.

Molles, Manuel C. "Environmental Stability and the Diversity of Stream Macroinvertebrates, a paper presented at Ecological Society of American Meeting, Lansing, Michigan, August 1977.
 "The Relation of Fisheries Biology to Theoretical Ecology," a paper presented to Arizona-New Mexico Chapter of the American Fisheries Society, Farmington, New Mexico, February 1977.
 "Fish Communities on Patch Reefs: Subsea Island Biogeography," Seminar presented to Department of Biology, New Mexico State University, Las Cruces, New Mexico, February 1977.

Potter, Loren D. Vice President for Research for the Eisenhower Consortium for Western Environmental Forestry Research, charge of research allocations and several meetings.

Riedesel, Marvin L. Member, Educational Materials Review Board of the Education Committee, American Physiological Society, 1975 to present.
 Member, AAAS Office of International Science Advisory Committee on Desertification (AAAS/COD), 1976-78.
 Chairman, Committee on Desert and Arid Zones Research (CODAZR), SW&RM Div AAAS, 1975 to present.
 "Hemoglobin 2,3-diphosphoglycerate values of hypothermic ground squirrels, Citellus lateralis" Abstract for publication in 1978 Cryobiology, a paper presented at Strategies In Cold: Natural Torpidity and Thermogenesis International Symposium organized by JW Hudson and CH Wang, October 3-7, 1977 Jasper Park Lodge, Alberta, Canada. First author: B. B. Clark.

Riedesel, Marvin L. (cont.) Attended, National Mtg Amer Assoc Advancement of Science, February 19-25, 1977, Denver, Colorado. Attended, Environmental Stress: Individual Adaptation International Symposium at Institute of Environmental Stress, University of California, Santa Barbara, August 31-September 3, 1977, arranged by Dr. J. A. Wagner.

Taylor, Fritz W. Conference on Models in Biology. An NSF funded conference sponsored by Rocky Mountain Consortium of Math. August 1977. Title: Applicability of current population models to the growth of insect population." At same conference my masters student, Robert Rhett presented paper: "Do insect populations bifurcate." I am senior author on this work."

Thornhill, Randy. Paper presented: "Ecological Competition in Scorpionflies (Mecoptera: Panorpidia) and its relation to Sexual Behavior." at Meeting: Rocky Mt. Guild of Population Biology.

Trujillo, John L. Paper to be presented at Atlanta, Georgia, June 1, 1978, American Society of Biological Chemists Abstract

Vogel, Kathryn G. "Effects of Hyaluronidase, Trypsin, and EDTA on Surface Composition and Topography during Detachment of Cells in Culture" paper presented at annual meeting of American Society for Cell Biology, November 15-18, 1977, San Diego, California.

7. Other professional activities.

Altenbach, Scott J. Biological Consultant, Cerebration Inc., Albuquerque, New Mexico.

Baca, Oswald G. Seminar (invited) UNM Med School Department at Micro. "Some properties of the rickettsial, Coxiella burnetii," April 28, 1977. Seminar (invited) at Highlands University, Las Vegas. "Interactions of the rickettsia Coxiella burnetii with the host" November 14, 1977. Seminar (invited) at West Virginia Medical School Morgantown, West Virginia. "Scanning electron microscopy of cells infected with Coxiella burnetii."

- Bourne, Earl W. Consultation Serono, Inc.,
Radiopharmacy Department, College of
Pharmacy, University of New Mexico.
- Bruner, Sandra. Consultant in Biological Ser-
vices for Falcon Industries a division at
Whittaker.
- Cates, Rex. Interview by Canadian Broadcasting
System, on "Plant defenses and forest pest
problems," February, 1977.
- Degenhardt, William G. Reviewed papers for
Copeia, Herpetologica, Southwestern Naturalist.
Served: Research Advisory Council, Big Bend
National Park Collaborator for National Park
Service, Regional Status.
- Duszynski, Donald W. Presented guest seminar,
Department of Microbiology, University of
Texas, Medical Branch, Galveston, May 1977;
Am consulting on parasites of whales for an
international study on the biology of certain
whale species.
- Findley, James S. Editorial Reviewer, Ecology,
American Naturalist, Journal of Mammalogy,
Science.
Referee: National Science Foundation, American
Philosophical Society invited seminar on
Numerical Ecology, New Mexico State University,
Las Cruces, September 1977.
- Gosz, James. Consultant - R & D Associates, California
Consultant - Eisenhower Consortium - U. S. Forest
Service
Expert Witness - U. S. Forest Service Court
Cases.
- Johnson, Gordon V. Presented seminar to Biology
502 (Transport): Ion absorption by higher
plants (September 22, 1977).
- Kidd, David E. Consultant: National Park Service,
Public Service Company of New Mexico, U. S.
Forest Service and others.
Reviewer for National Association of Biology
Teachers.
Proposal Reviewer for NSF.
- Martin, Willaim C. Off-campus talks to various
groups; Consultant (non-paid) in poisonous
plant identification for Poison Control Center,
etc.

Molles, Manuel C. Aquatic insect identification and enumeration for U. S. Bureau of Sport Fisheries and Wildlife, Principal Investigator: Harry Kennedy USBFW, Albuquerque, New Mexico, August 1, 1977 - September 15, 1977.

"Stream Flow Stability and Structure of Stream Insect Communities," talk presented to Rio Grande Chapter of Trout Unlimited.

Riedesel, Marvin L. Reviewer, manuscripts for publication in American Journal Physiology, Southwestern Naturalist, Ecology, American College of Sports Medicine.

Thornhill, Randy. Off-campus talks: Department of Biology, New Mexico State University; Department of Biology, Queens University, Kingston, Ontario; Department of Zoology, University of Ontario; Department of Zoology, University of Iowa; Museum Zoology, University of Michigan, Mt. Lake Biology Station, University of Virginia.

8. Non-teaching University Service.

Baca, Oswald G. Search Committee for Physiologist/Immunology position - Biology.

Committee-Biology-Graduate Policy Committee.

Member of Health Sciences Advisory Committee.

Member of Student Selection Committee of the minorities Biomedical Support Program.

Barton, Larry. Advisor for Presidential Scholarship holders-University.

Bourne, Earl W. Selection Committee Director of Dental Hygiene Program.

Premedical, predental, preveterinary medicine Advisor.

Advisor, Premedical Club; Human Subjects Committee.

Cates Rex. Member of University Research Allocations Committee; Departmental Graduate Student Policies Committee; Greenhouse Committee; and Space Committee. Faculty advisor to: Jody Gray, M.S. student; Tim McMurray, M.S. student; Harvey Alexander, Ph.D. student.

Crawford, Clifford S. Member, Arts and Sciences Committee on Interdisciplinary Studies.

- Degenhardt, William G. Graduate advisor (5 students),
Curator of Herpetology Division of the Museum
of Southwestern Biology, Dept. Teach Evaluation
Committee.
- Duszynski, Donald W. Member, Dept. Graduate Policy
Committee; Speical assignments by Dept. Chairman:
Designed departmental flier advertising our
graduate program; updated departmental faculty
biographical sketches.
- Findley, James S. Chairman, departmental graduate
Selection Committee.
Chairman, 2 masters and 4 doctoral committees.
Curator of Mammals, Museum of Southwestern
Biology.
- Gosz, James. Chairman Search Committe, Biology
Department.
- Johnson, Gordon V. University Committees: Radiation
Control Committe, Radiation Protection Sub-
committee.
Departmental Committees: faculty teaching
evaluation, graduate assistant teaching
evaluation.
- Johnson, William W. Chairman of the University
Admissions and Registration Committee.
Transfer Student Advisor (Biology).
Liason work with the General Library.
- Kerkof, Paul R. Arts and Sciences Contract Renewal
and Tenure Committee.
Physiologist-Immunologist Search Committee,
Department of Biology.
UNM Biomedical Sciences Advancement Program
Advisory Council. Spring 1977.
Arts and Sciences Contract Renewal and Tenure
Committee.
Malaria Research Relocation Committee, Department
of Biology.
Chairman Search Committee, Department of Biology.
Fall 1977.
- Kidd, David E. Toxicology Committee, UNM.
Freshman Advisor, Biology Department.
Major Advisor for four graduate students.
- Kogoma, Tokio. Space and long-range planning committee
(Biology Department).

Martin, William C. Sandia Colloquium Committee;
Preforestry Advisor; Curator of the Herbarium
and Museum of Botany.

Molles, Manuel C. Curator of the University of
New Mexico Fish Collection.
Member: Student Standards Committee.

Riedesel, Marvin L. Member: Seminar Committee,
1976-77; Long-range Planning and Space, 1976-
77, Department of Biology.
Member: Dean Wollman's Promotion Advisory
Committee 1976-78; Health Science Committee
1977-78, College of Arts & Sciences.
University Committee: Member, Humane Care of
Laboratory Animals 1976-77; Member, Research
Policy 1976-78; Chairman, Research Policy
Subcommittee "Interdisciplinary Research &
Research Foundations" 1977-78; Member,
"Interdisciplinary Research Subcommittee 1977-78;
Attended, University-Connected Research
Foundations Workshop at Asilomar Conference
Grounds, Pacific Grove, California under auspices
of Frederick Burk Foundation for Education,
San Francisco State University, March 16-18, 1977.
Ph.D. Committee on Studies: In progress:
Felicetti, Sharon Walker, co-chairman; Fisher,
William F., chairman; Steffen, Joseph M.,
chairman; Carlberg, Karen A., chairman; Silbaugh,
Steve, co-chairman.
MS Committee, Plan I Completed: Velasquez,
David J., co-chairman; in progress: Clark,
Barbara Blake, chairman; Harris, Dorthy L.,
chairman; Runkle, Gen, co-chairman; Dudley,
Robert E., member; Michael, Joseph A., chairman;
Hicks, James W., chairman.

Taylor, Fritz W. Organizing departmental honors
program for Biology Department.

Thornhill, Randy. Routine departmental committee
work.

Toolson, Eric C. Graduate admissions and support
committee--Department of Biology.

Trujillo, John L. Graduate Selection Committee,
Biology Department; UNM Research Policy
Committee; MBS NIH Advisory Committee.

9. Public Service.

Altenbach, Scott J. Lecture series to Day Camp for ages 6-12, Englewood, Colorado, Summer 1977.

Lectures to Grades 1-2, Monte Vista Elementary School, Albuquerque, New Mexico.

Barton, Larry. An elected member of Board of Education at Local church.

Umpire at Little League Baseball.

Cates, Rex. Member of Bishopric in LDS Church; Cub Scout and Boy Scout Pack & Troop Committees, Chairman; Oversee Youth Program in Albuquerque 1st Ward, LDS Church.

Crawford, Clifford S. Member, Board of Directors, The New Mexico Natural History Institute.

Duszynski, Donald W. June-September, coached a men's city-league softball team finished 17-6; October-November, coached a men's city league flag football team, finished season 10-3.

Johnson, Gordon V. Judge State Science Fair; 4-H Club project leader.

Martin, William C. Teaching in Community College; Active in New Mexico Wildflower Society.

10. Personal Information.

Trujillo, John L. One Child, August 27, 1977.

THE REPORT OF THE DEPARTMENT OF CHEMISTRY

July 1, 1977 to June 30, 1978

Guido H. Daub, Chairman

I. General Departmental InformationA. Significant Achievements During the Academic Year 1977-78.

During the year 1977-78 sixteen (eleven males and five females) undergraduate majors received the B. S. Degree and eight (seven males and one female) students received the B. A. Degree in Chemistry. A total of fifty-three students (thirty-five males and eighteen females) received a minor in Chemistry. At the graduate level, there were ten students, (seven males and three females) who received the M. S. in Chemistry and nine students (seven males and two females) who received the Ph.D. The following tables list the names of the students who received either a major in Chemistry or a graduate degree in Chemistry. It should be pointed out that of the B. S. majors, six of these will go on to graduate school to study chemistry, two at the University of Wisconsin at Madison, one at Cal Tech, one at Rice University and two in our own Department at the University of New Mexico.

Students Receiving a B. S. Degree in Chemistry in 1977-78

BARBER, Matthew E.	HEUNG, Wing H.G.	NUSSER, Betty J.	SHAY, John T.
BARNHART, Steven E.	HILLIS, Gregory D.	PAFFETT, Mart T.	VAUGHN, Edward A.
BOWEN, Scott M.	KUBAT, Kimberly A.	PRITT, Jeffrey W.	VOLLENDORF, Nicholas W.
CORTNER, Jay C.	MIZUSAWA, Anita E.	RICKER, Karl S.	ZURAWSKI, Dale E.

Students Receiving a B. A. Degree in Chemistry in 1977-78

BARNETT, James L.	GIAQUINTO, David R.	MILLER, Tim	THOMPSON, William Jr.
BUCHANAN, Mark A.	MARTINEZ, Rita Alfred	ROEDER, Carol	YEEFONG, Juan M.

Students Completing the Master's Degree in Chemistry in 1977-78

ANAOAR, Sunil G.	ENNIS, Malcom E. Jr.	JONES, Martin B.	SCHONBERG, Peter R.
BODINE, Richard S.	FRITZ, Georgia T.	NDINTEH, Emilia A.	
DYE, Vicky D.	HYLARIDES, Mark D.	RUMINSKI, Ronald R.	

Students Completing the Ph.D. Degree in Chemistry in 1977-78

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DING, Da-Wen	GAVEY, Kathleen L.	PRIORE, Douglas R.	SWEARENGEN, Peter M.
ETTINGER, Deon G.	MIRZADEH, Saed	SCHIMANDLE, Christina M.	THEM, Theodore T.

Several years ago the Department of Chemistry drastically changed its requirements for the B. A. Degree and this change has had a major affect on the number of students receiving the B. A. Degree in Chemistry during the year. We used to have as many as 30 students receive the B. A. in Chemistry and this year only 8 students completed this degree. We believe that the B. A. Degree in our Department has been greatly strengthened with this change and that students receiving the B. A. Degree in Chemistry under our current system have a much better background in Chemistry than those of several years ago. Students in the B. A. program take the same courses as those in the B. S. program with the elimination of 6 credits of laboratory and 7 credits of chemistry electives. Students receiving the B. A. Degree in our Department at the present time, could qualify for graduate work in chemistry, whereas those who received our B. A. Degree five years ago could not.

The Department's attempt to obtain funds from the National Science Foundation for the necessary equipment to set up a high quality X-ray crystallography laboratory was successful. Dr. Thomas C. Farrar of the National Science Foundation contacted me on June 8 to notify me that he was recommending a grant of \$48,300 be given to our Department to assist us in purchasing an automated diffractometer. This is to be matched by \$48,300 which will be provided by the Administration of the University. In order to obtain the instrument we feel will best fit our needs, it was necessary to ask the University to provide an additional approximately \$30,000 toward the purchase of this instrument. This request is currently being discussed and we have high hopes that the University will provide these additional funds for us. Our plans for the next year

are to write a grant proposal to the National Science Foundation for funds to assist in the purchase of a new electron spin resonance spectrometer.

The Department received a URP Grant from the National Science Foundation amounting to \$14,570. to be used during the summer of 1978 for supporting the research activities of ten undergraduate students who will perform research with various faculty members.

The Department has also purchased a new VARIAN FT80A NMR spectrometer with funds provided by the University (\$85,000). The instrument will provide the Department with wide band NMR capability. In other words, this instrument will allow us to observe the NMR spectra of a large number of different nuclei. With the addition of this instrument, the Department's NMR capability will be excellent. The instrument was to be delivered on June 15, but has not yet arrived. We hope to have it in full operation before the end of the summer.

The Department's collaboration with the Los Alamos Scientific Laboratory is continuing in that the intra-institutional loans of instrumentation is still going on. The Chemistry Department still has on loan the Cary Model 81 Raman spectrometer from the CNC-4 Group at Los Alamos. In addition, the Department has on loan several items of equipment from Los Alamos which are being used in the dye laser project being conducted by Professors Coleman and Daub.

During the year 1977-78, the Department received a generous allotment from the Administration in the form of bond issue money to update the Chemistry 331L, 332L and 454L laboratories. An initial Phase I allotment of \$64,480 plus an additional \$22,150 was used to purchase equipment for these laboratories. Professors Jones, Walters and Niemczyk were in charge of these purchases and have indeed obtained the equipment necessary to update and strengthen these laboratories. The Department thanks the Dean for his role in obtaining these funds for us. Indeed the \$85,000 obtained for the FT80A NMR would not have been forthcoming had not the College Dean provided \$25,000 of that money from the A&S Contingency Account. We appreciate all of the Dean's efforts on our behalf and I personally

feel that his role in the upgrading of our Department to one of the better in the Southwest area has been considerable.

Enrollments in Chemistry still continue to hold and the bond issue money which has been provided has relieved the stress on obtaining needed equipment for the teaching laboratories. There is a further need for equipment for the teaching laboratories and this situation is expected to continue. The Department's future allotments from the bond issue funds should help to solve these needs.

Our biochemistry program jointly sponsored with the Department of Biochemistry in the School of Medicine, is still holding its own in that some new students in our graduate program are interested in this area. We hope that this relationship will continue in the future.

During the past year, the Department continued to use student help to provide a combined wood and metal shop technician. The need for a machinist and machine shop facility for Chemistry still exists. Last year the Dean was asked to consider hiring such a person who could serve Chemistry, Biology and Geology in such a capacity on a full time basis. Since it has not been possible for the Dean to move in this direction, I am suggesting that the Department have any machine shop work done by local qualified machine shops. Such work to be paid out of our Supplies and Expense Account. We will keep track of the cost of such services and at the end of the year perhaps a better estimate of our machine shop needs can be made.

As in the past, members of the Department were evaluated by student opinion in the Fall Semester. These evaluations were tabulated and sent to the office of the Dean of Arts and Sciences. In general, our faculty appears to be doing a good job at both the graduate and undergraduate levels.

During the school year 1977-78, the Department resumed offering trailer courses in Chemistry 121-122, 301-303L and 302-304L. These courses had very

good enrollments and we plan to continue the offering of trailer courses in the future. Associated with this trailer course policy, we have gotten back to offering our summer courses in 121,122, 301,302 and 303 and 304 full term basis rather than giving these courses during a four-week period in the summer session.

During the school year 1977-78, the Chemistry Department's Seminar Program was financed by donations from Alumni and other interested parties as well as the Supply and Expense Budget of the Department. Donations to the Seminar Fund totaled approximately \$460. This program was also funded through the auspices of the University of New Mexico Colloquium Committee in the amount of \$750. The amount supplied from the Supplies and Expense Budget of the Department for the 1977-78 year was \$2500. An estimate of the total cost of this program for 1977-78 was somewhere between \$3250. and \$3500. The Seminar speakers and titles of their talks for the 1977-78 year are shown in Table I.

Table I

Seminar Speakers 1977-78

r. Dale Alexander September 2, 1977	Stereochemistry of Complexes of Polydentate Ligands	New Mexico State University
r. Victor Bloomfield September 16, 1978	Dynamic Light Scattering in Biophysical Chemistry	University of Minnesota
r. Pill-Soon Song September 23, 1977	Molecular Topography of Solor Energy Harvesting Pigments in Marine Algae	Texas Tech University
r. Frederick H. Horne October 7, 1977	Nonequilibrium Thermodynamics of Membrane Transport	Michigan State University
r. Ignacio Tinoco October 14, 1977	Fluorescence Detected Circular Dichroism	University of California, Berkeley
r. Gary L. Blackmer October 21, 1977	Crown Ether Assisted Ligand Exchange Re- actions on Transition Metal Complexes	Texas Tech University
r. John H. Enemark October 28, 1977	The Bioinorganic Chemistry of Molybdenum	University of Arizona

r. A. Dean Sherry November 4, 1977	The Role of Metals in the Plant Lectin, Cocanavalin A	University of Texas, Dallas
r. Kelly R. O'Keefe November 11, 1977	Applications of Multielement Atomic Absorption Spectrometry	Colorado State University
r. Richard M. Blazer November 18, 1977	Carbon-13 Nuclear Magnetic Resonance Studies of the Kiliani Synthesis	Los Alamos Scientific Laboratory
r. Robert E. Sievers December 2, 1977	Chromatographic Analysis of Environmental Pollutants	University of Colorado
r. Roald Hoffmann December 9, 1977	The Bonding Capabilities of Transition Metal Fragments	Cornell University
r. John W. Gilje January 9, 1978	Stereodynamics of Helically Chiral tris- (amino)boranes	University of Hawaii-Manoa
r. Michael Butler January 20, 1978	Photoelectrochemistry for Solar Energy Conversion	Sandia Laboratories
r. Charles N. Reilley January 27, 1978	Microcomputers	University of North Carolina
r. Paul D. Bartlett February 3, 1978	Some 2 + 3 Cycloadditions and Cyclore- versions Involving Carbonyl Ylides	Texas Christian University
r. Devon W. Meek February 10, 1978	Reactivity Patterns, Structures, and Catalysis of Polyphosphine Complexes of Platinum Metals	Ohio State University
r. Mark S. Wrighton February 17, 1978	Semiconductor Based Photoelectrochemistry	Massachusetts Institute of Technology
r. Arthur W. Adamson March 3, 1978	Excited States of Coordination Compounds	University of Southern California
r. Jerome A. Berson March 10, 1978	Spin States and Reactions of Trimethyl- enemethanes	Yale University
r. Michael Burke March 24, 1978	Chemically Modified Chromatographic Absorbents	University of Arizona
r. James D. Navratil March 31, 1978	Chemical Research at Rocky Flats	Rockwell International (Rocky Flats)
r. John Zahrt April 3, 1978	Hindered Rotation in the Solid State	University of Northern Arizona
r. Gareth R. Eaton April 7, 1978	Metal-Nitroxyl Interactions	University of Denver

Dr. Michael Kasha April 14, 1978	Singlet Oxygen and Photocarcinogenicity	Florida State University
Dr. James Durig April 21, 1978	The Study of Anharmonic Vibrations	University of South Carolina
Dr. Wesley G. Bentrude April 28, 1978	Conformational Studies of Rings, Containing Phosphorus	University of Utah
Dr. Charles H. DePuy May 5, 1978	Gas Phase Reactions of Organic Anions	University of Colorado
Dr. James R. Bolton May 8, 1978	Solar Fuels	University of Western Ontario

B. Significant Plans and Recommendations for the Near Future

Plans to renovate the older portion of Clark Hall have been developed and a proposal was sent to the Dean in January, 1977. (See Appendix A.) It is my understanding that this request is now in the hands of the architect and has some kind of priority rating in connection with other requests.

Rooms 109 and 109A should be renovated so as to provide better facilities for our freshman undergraduate honors section of general chemistry (Chemistry 131 and 132). The laboratory benches in these rooms are forty to fifty years old and replacement of them with other renovations including new fume hoods and paint has been recommended. We are earnest about this endeavor and feel that we must find these kinds of funds in order to improve the laboratory situation for our B. S. majors.

When Clark Hall was built, its undergraduate laboratories were furnished with the old laboratory benches from the then existing chemistry building. This was understandable since the University did not feel that it had the funds to furnish the new building the way it should have been. There were promises that eventually new furniture would be obtained, but this has never materialized. Several years ago we did manage to obtain funds to add laboratory benches to

Chemistry 207 (the freshman laboratory), we also received funds three years ago to refurbish the laboratory which is now used by Professor Paine as a research laboratory. The renovation of Room 109 and 109A is another project that is long over due and every effort should be made to allow us to make these renovations during the summer of 1979.

In addition to the above we have recommended that Rooms 104, 106, 108 and 118 be modified to provide expanded facilities for the sophomore course, Chemistry 253L, Quantitative Analysis. The modification of Room 118 has already been completed. This room is now being used as a storage facility for unknown samples and as a crisis center. A teaching assistant is on duty a good share of the time to provide assistance to Chemistry 253L students needing help with the course material. As a temporary measure, the basement laboratory was renovated four years ago to provide added facilities for Chemistry 253L. The modification of Rooms 104, 106 and 108 would convert the entire east side of the old Clark Hall to the teaching of elementary Quantitative Analysis and would free the basement laboratory as a research area for added faculty.

Another room which must be renovated is Room 211 in Clark Hall, Chemistry's plan is to convert this room into a general inorganic chemistry research laboratory. This room is presently equipped with furniture which is well over 40 years old. When Clark Hall was built in 1953, some of the research laboratories were furnished with old laboratory benches from Old Chemistry. Although most of the research laboratories were furnished with new bench facilities, Room 211 was one of the rooms that was furnished with very old laboratory furniture. Our plans require the old benches in the room be removed and replaced with new furniture. See Appendix A for details.

The recommendations made above are intended to save the University money in the long run. The Chemistry Building, at the present time is almost filled to capacity and within a few years a new wing should be added. This wing should contain facilities for a general chemistry center, additional laboratory facilities for freshman chemistry, organic chemistry and additional general laboratory space to be used for research as outlined in Appendix A.

In the meantime, to stem the tide, the renovation of Rooms 109, 109A, 104 106, 108 and 211 should be carried out. A decision on this request should be made as soon as possible so that the necessary laboratory furniture can be ordered in time for installation during the summer of 1979.

In addition to the above recommendations, the University is urged to replace the existing furniture in Rooms 112 and 116 (the current quantitative analysis laboratories) as specified in Appendix A.

There is also a need for additional help for Chemistry, Biology, and Geology in the area of an electronic technician. Mr. Earle George is now serving each of these three departments on a one-third time basis and this is not enough. We should have an additional full time electronic technician to make Chemistry's instrumentation servicing even adequate. In Chemistry we have been relying on work study personnel to help fill this need; however, only two such persons that we have hired have really been a help to Mr. George. The others are people who really had not had enough training in this area to be very useful. We must, if at all possible, acquire the services of an additional permanent, full time electronics technician. This is another post that should be filled by July 1979. We have asked for this kind of additional help for several years now and I think every effort should be made to find this additional technician.

Some faculty have asked that the new technician be the type of person who can design and build equipment. This kind of person would complement Mr. George's services since Mr. George does only repair work and is not well suited for design.

As pointed out earlier, the Department has need for a machine shop technician. During the past four years, I have informed the Dean that the University maintains an excellent shop in the College of Engineering as well as Physics, having all of the necessary machinery for doing high quality machine shop work. As I mentioned before in this report, funds should be provided to the Departments of Chemistry, Biology, and Geology jointly to hire a highly qualified machinist or shop technician who would be allowed to work in the Physics Machine Shop or some other suitable currently existing machine shop on Campus. I strongly recommend that this position be funded starting July 1, 1979. As reported earlier here, we have been making use of seniors in the Department of Industrial Education for a shop man, but a permanent position of this kind should be funded.

In the coming year, we will submit a proposal to the National Science Foundation for funds to assist us in purchasing a new electron spin resonance spectrometer. This will require matching funds from the University just as it has in our past requests from the National Science Foundation. The proposal will be prepared by William F. Coleman with other faculty members in the Department participating in the preparation of this proposal. Such an instrument may cost as much as \$100,000 with the National Science Foundation providing \$50,000 and the University matching that amount.

In my reports of the last several years I have stated that the City Fire Marshall has been critical of safety conditions in our building. Recommendations which were made were that our refrigerators used to store chemicals should be of the explosion proof type and a suitable fire alarm and emergency lighting

system would be installed in the old wing of the building. As of this writing, a suitable emergency lighting system has been installed by the Physical Plant; however, none of the other deficiencies have been recitified.

As reported in the past several years, the Chemistry Department also has a need for a large number of teaching assistants. Through the efforts of the Dean of the A&S College, we have managed to obtain the necessary funds for needed personnel in this area; however, we would prefer that all of these funds were tied in with teaching assistantships rather than some of them being for special assistantships. I am asking that the Dean do all he can to convince the Provost that the assistantships in Chemistry to be used for teaching, be of the teaching assistantship type. We also have need for three graduate assistants which could be used to support the upkeep and running of our sophisticated instrumentation. A graduate student is needed to maintain and run our XL100 NMR instrument and if we were appointed two more G.A.'s, they should be used to run and maintain other sophisticated instrumentation such as the X-ray diffractometer, the mass spectrometer and the FT80 NMR. Departments at other institutions generally have full time technicians in charge of such sophisticated instruments. All we are asking is that the University provide funds to support graduate assistants who could take the place of such full time technicians. I am asking that for the school year 1979-80, our teaching assistantships be increased to 32 and that we be provided with three graduate assistantships to give us the total of assistantships numbering 35. The graduate assistantships provided for us will be used in our research instrumentation program.

C. Mrs. Gloria Sandoval joined our staff as a secretary in August 1977. Her position was funded by CETA. Miss Lisa Garcia joined our staff as secretary in June 1978. This position was also funded by CETA.

D. Mrs. Gloria Sandoval resigned in May of 1978 for personal reasons, being replaced by Miss Garcia.

Composite of Information Requested on Individual Biographical Supplement:

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1. Advanced Study:

None.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.:

- (a) FRITZ S. ALLEN: Discussed research with Prof. V.A. Bloomfield, University of Minnesota, Minneapolis, MN.
- (b) CHARLES F. CAMPANA: Summer appointment, Sandia Laboratories, Associated Western Universities.
- (c) DONALD R. MCLAUGHLIN: Visiting staff member, Los Alamos Scientific Laboratory, June-August 1977.
- (d) EDWARD A. WALTERS: Travel to Los Alamos Scientific Laboratory as visiting staff member; travel to the University of Texas, Austin; travel to Colorado State University, Fort Collins; travel to Purdue University, Indiana.

3. New scholastic honors, fellowships:

- (a) ROY D. CATON, JR: Nominated for Outstanding Teacher of the Year Award in April, 1977.
- (b) RICHARD W. HOLDER: Awarded Fulbright Lectureship to teach physical organic chemistry in Columbia, Summer 1978; Awarded \$30,000.00 grant from the Petroleum Research Fund for 1978-80.
- (c) ROBERT T. PAINE: Association of Western Universities Fellowship.
- (d) DAVID L. VANDER JAGT: Research Career Development Award, Year 4, from NCI.

4. Publications:

(a) FRITZ S. ALLEN

- (1) "First Neighbor Specificities of Actinomycin-DNA Bindings by Circular Dichroism," Biophysical Journal, 1977, vol. 20, pp 69-78.
- (2) "An Example of the Utility of Linear Programming as a Numerical Technique," Computers in Chemistry, 1977, vol. 0, pp 0000

(b) CHARLES F. CAMPANA

- (1) "Preparation and Structural Characterization of $[\text{Co}_4(\text{h}^5\text{-C}_5\text{H}_5)_4(\text{CO})_4(\mu_4\text{As})]^+\text{BF}_4^- \cdot 1/2\text{C}_2\text{H}_6$: An Organometallic Complex Containing a Tetrahedral-like Arsenic Atom Coordinated to Four Metal Atoms," Journal of Organometallic Chemistry, 1977, vol. 127, pp 209-222, Coauthor: Lawrence F. Dahl.

4. Publications: (Cont'd)

(b) CHARLES F. CAMPANA (Cont'd)

- (2) "Preparation and Structural Characterization of $[\text{Fe}_3(\text{h}^5\text{C}_5\text{H}_5)_3(\text{CO})_5\text{As}_4\text{O}_5]^+\text{BF}_4^-$: An Unusual Transition Metal Derivative of As_4O_6 ," *Journal of Organometallic Chemistry*, 1977, vol. 127, pp 223-236.
Coauthors: J. Douglas Sinclair and Lawrence F. Dahl.

(c) WILLIAM F. COLEMAN

- (1) "An ESR Study of Vanadyl(IV) Tartrate and Methyl-Substituted Tartrate Complexes," *J. Mag. Reson.*, 26, 35 (1977).
- (2) "Spectroscopy and Photochemistry of UF_6 ," NBS Special Publication 1977.
- (3) Review of "Inorganic Chemistry: A Guide to Advanced Study," by Heslop and Jones, *J. Chem. Ed.*, 54 A 323 (1977).
- (4) Review of General and Organic Chemistry -- Professional Educators of New Mexico, 67 pgs.

(d) GUIDO H. DAUB

- (1) Su-Moon Park, Mark T. Paffett, and Guido H. Daub, "Electrogenerated Chemiluminescence of Naphthalene Derivatives. Steric Effects on Exciplex Emissions," *J. Amer. Chem. Soc.*, 99, 5993 (1977).
- (2) W.S. Seese and G.H. Daub, "Basic Chemistry," 2nd Edition, Prentice-Hall, Inc., 576 pages, February 1977.
- (3) G.H. Daub and W.S. Seese, "Student Guide for Basic Chemistry," 2nd Edition, Prentice-Hall, Inc., 292 pages, February 1977.
- (4) T.W. Whaley and G.H. Daub, "Syntheses with Stable Isotopes: 4-Ethylsulfonyl-1-naphthalenesulfonamide- ^{15}N ," *J. Label. Compounds and Radiopharm.*, 13, 481 (1977).

(e) RICHARD W. HOLDER

- "Lithium Triethylborohydride Reduction of Alkyl Methanesulfonate Esters," *Journal of Organic Chemistry*, vol. 42, pp 2166-2168 (1977).

(e) ULRICH HOLLSTEIN

- (1) With F.S. Allen and M.B. Jones, "First Neighbor Specificities of Actinomycin-DNA Bindings by Circular Dichroism," *Biophys. J.*, 20,69 (1977)
- (2) With W.M. Litchman and E.P. Papadopoulos, " ^{13}C NMR Chemical Shifts in some substituted 1,2,4-Triazol-3-ones, *Org. Magn. Res.*, in press.
- (3) Chapter on Non-lactam Antibiotics, for Burger's Medicinal Chemistry, 4th Ed, Wiley, in press.

4. Publications: (Cont'd)

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(f) THOMAS E. JONES

- (1) "Effects of Ligan Cyclization on the Rates of First Bond Formation," submitted to Journal of the Americal Chemical Society.
- (2) With W.H. Woodruff, F.T. Greenaway, D.B. Rorabacher and L.A. Ochrymowycz, "Evidence for Methionine Coordination in "Blue" Copper Protein; Resonance Ramam and EPR Spectra of a "Blue" Copper-thiaether Complex," submitted to Journal of American Chemical Society.
- (3) With L.L. Diaddario, L.L. Zimmer, L.S. Sokol, R.B. Cruz, L.A. Ochrymowycz and D.B. Rorabacher, "Macrocyclic Ligand Complexation Kinetics: Solvent, Ring Size, and Macrocyclic Effects on Formation and Dissociation Reactions of Copper (II)-cyclic Polythaether Complexes," submitted to Journal of the American Chemical Society.
- (4) Report to Sandia Laboratory, Thomas E. Jones, "Analytical Applications of Macrocyclic Polythiaether Ligands," Oct 1, 1977, 25 pp.

(g) MILTON KAHN

- (1) Book: "Radiochemistry of Iodine" (with J. Kleinberg.) A monograph of 103 pages. Prepared for Subcommittee on Radiochemistry on invitation by the National Academy of Sciences-National Research Council. Issuance Date: September 1977.
- (2) The Chemical Behavior of Carrier-Free Germanium-68 (with Saed Mirzadeh). Progress Report No. 1, 10 pages. For Los Alamos Contract Order Number NP7-96287-1. September 1977.
- (3) The Chemical Behavior of Carrier-Free Germanium-68 (with Saed Mirzadeh). Progress Report No. 2, 8 pages. For Los Alamos Contract Order Number NP7-96287-1. December 1977.

(h) WILLIAM M. LITCHMAN

"Heteronuclear Double Resonance & Theoretical Description of Intensity Effects in $A(X_2)$ and $A(X_3)$ Systems," J. Mag. Res. 25, 315 (1977)

(i) DONALD R. MC LAUGHLIN

"A theoretical Prediction of Vibrational Enhancement for Dissociative Charge Transfer in the HeH_2^+ System," J. Chem. Phys., 68, 0000 (Jan 1, 1978 issue) by R.K. Preston, D.L. Thompson and D.R. McLaughlin.

(j) CARY J. MORROW

"Stereochemistry of Diphenylphosphide Displacement at Saturated Carbon. Conformation and Relative Reactivity of Menthyl- and Neomenthylidiphenylphosphine Homogeneous Hydrogenation Complexes", Journal of Organic Chemistry, 1976, Volume 41, 1545.

4. Publications: (Cont'd)

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(k) THOMAS M. NIEMCZYK

- (1) "The rate of Reaction of Ge (^{31}P) Atoms with N_2O ", Chem. Phys. Lett., 49, 571 (1977)
- (2) "The Rate of Reaction of Si^{31}P_2 Atoms with N_2O and O_2 ", Laser Digest AFWL-TR-77-118, May 1977, Coauthors: P.M. Swearingen and S.J. Davis.

(l) ROBERT T. PAINE, JR

- (1) "The Synthesis and Characterization of Methylaminobisdifluorophosphine Borane(3), Bisborane(3), Triborane(7), " Inorg. Chem., 16, 2996, (1977).
- (2) "Borane Coordination Chemistry of Bidentate Ligands," J. Amer. Chem. Soc., 99, 3884 (1977).
- (3) "Boron-11 NMR Study of the Large Angle Anisotropic Motion of B_3H_8^- in $(\text{CH}_3)_4\text{NB}_3\text{H}_8$," J. Chem. Phys., 67, 1614 (1977).

(m) E. PAUL PAPADOPOULOS

- (1) "Heterocycles from N-Ethoxycarbonylthioamides and Dinucleophilic Reagents. Part 2. J. Org. Chem., 42, 441 (1977) (with B. George).
- (2) "Heterocycles from N-Ethoxycarbonylthioamides and Dinucleophilic Reagents. Part 3. J. Org. Chem., 42, 2530 (1977) (with B. George).
- (3) "Photochemical Synthesis of Benzo[f]quinolines." J. Org. Chem., 42, 3514 (1977) (with N.R. Beller and D.C. Neckers)
- (4) "Reactions of Imidazoles with Isocyanates at Elevated Temperature," J. Org. Chem., 42, 3925 (1977).

(n) SU-MOON PARK

- (1) "Electrochemical and ECL Studies of Selected Laser Dyes," J. Electroanal. Chem., Vol 77, pp 137-152 (1977) Coauthor: A.J. BARD.
- (2) "Electrogenerated Chemiluminescence of Naphthalene Derivatives. Steric Effects on Exciplex Emissions," J. Am. Chem. Soc., Vol 99, 5393-5399 (1977) Coauthors: M.T. Paffet and G.H. Daub.
- (3) "Electrochemical and Electrogenerated Chemiluminescence Studies of Substituted Olefin-Cyanophenanthrene Mixed Systems," J. Electrochem. Soc., Vol. 124, 1859-1864 (1977). Coauthor: R.A. Caldwell.

(o) ROBERT E. TAPSCOTT

- (1) "Magnetic Studies of Vanadyl(IV) Tartrate Dimers," Journal of Molecular Structure, 1977, Vol. 38, pp 141-148.
- (2) "An ESR Study of Vanadyl(IV) Tartrate and Methyl-Substituted Tartrate Complexes," Journal of Magnetic Resonance, Vol. 26, 1977, pp 35-42

4. Publications: (Cont'd)

(o) ROBERT E. TAPSCOTT (Cont'd)

(3) "Enumeration of Permutational Isomers: The Porphyrins," Journal of Chemical Education, in press (accepted).

(4) "Enumeration of Isomers for Molecules Containing Multiple Elements of Stereoisomerism," submitted to Journal of the American Chemical Society.

(p) DAVID L. VANDER JAGT

(1) "Purification of Glutathione-S-Transferases," Anal. Biochem., 82, 334 (1977).

(2) "Purification and Characterization of 2-Oxoaldehyde Dehydr," Biochim. Biophys. Acta 484, 260 (1977).

(3) "Comparative Kinetics of Mg^{+2} , Mn^{+2} , Co^{+2} , and Ni^{+2} -Activated Glyoxalase-I," Biochem. 16, 0000 (1977).

(4) "Glutathione Affinity Chromatography", Fed. Proc. 36, 2574 (1977).

(5) "Glyoxalase-I; Effects of Metal Ions," Fed. Proc. 36, 2570 (1977).

(q) EDWARD A. WALTERS

(1) "The Ionization of 4-Nitrophenylacetonitrile in Water-Dimethyl Sulfoxide Mixtures," J. Phys. Chem., 81, 1995 (1977).

(2) "In Situ Gasification of New Mexico's Deep Seam Coal Deposits Via Non-mining Techniques," Technical Report NE-37(77) BEF-363-1, April, 1977. Coauthor: Eric H. Nuttall.

(3) Review of Odum, Howard T. and Odu, Elizabeth, "Energy Basis for Man and Nature," in J. Chem. Ed., 54, A390 (1977).

5. Other research projects or creative work in progress or completed:

(a) FRITZ S. ALLEN

(1) "An example of the Utility of Linear Programming as a Numerical Technique II" submitted, Computers in Chemistry.

(2) "Physical Studies of Hg(II) and Ag(I)-DNA Complexes I, submitted Biopolymers.

(3) "Physical Studies of Hg(II) and Ag(I)-DNA Complexes II, submitted Biopolymers.

(4) "Comparisons Between Oriented Film and Solution Tertiary Structure of Various Nucleic Acids," Submitted Biophysical Journal.

(5) A Solution to the Rotational Diffusion Equation to Describe Molecular Orientation Due to a Time Dependent Torque, in press, J. Chem. Phys.

5. Other research projects or creative work in progress or completed: (Cont'd)

(b) CHARLES F. CAMPANA

(1) Synthesis and Structure of Silicon- and Germanium-Bridged Metal Cluster Complexes, Research Allocations Committee, \$1500, November 1, 1976 to June 30, 1977.

(2) Preparation and Characterization of Transition Metal Cluster Complexes, Sandia Corporation RFQ07-7914, \$13,00, October 1, 1977 to September 30, 1978.

(3) X-Ray Crystallographic Studies of Vanadyl Tartrate Complexes, joint with B. Morosin (Sandia Laboratories and R.E. Tapscott (UNM).

(4) X-Ray Crystallographic Studies of Optically Active Cobalt Complexes, joint with B. Morosin (Sandia Laboratories) and R.E. Tapscott (UNM).

(5) Structural Studies of Transition Metal Phosphine Complexes, joint with R.T. Paine (UNM).

(6) Preparation of Transition Metal Thiophosphoryl Complexes, unsupported.

(7) Nonparameterized Molecular Orbital Calculations on Transition Metal Cluster Complexes, unsupported.

(c) ROY D. CATON, JR

ERDA (Department of Energy); \$5200; "Soil Sampling for the Rocky Flats Area," July 25, 1977 - January 30, 1978.

(d) WILLIAM F. COLEMAN

(1) "Photochemical and Photophysical Properties of Matrix Isolated and Thin Film Uranium Hexafluoride and Single Crystal Uranyl Complexes," final report on grant number N66-17232-1 to LASL AP2, 36 pages.

(2) UV Laser Dyes -- LASL AP-2 Division, \$41,200, ended 9-1-77.

(3) Laser Dye Evaluation -- Sandia Corp., \$24,600, 12/76-12/77.

(4) Chemistry and Spectroscopy of Cr(III) Amino Acid Complexes -- NIH Minority Biomedical Support Grant, \$14,000, 9/76-9/79, \$50,800 9/77-9/80.

(5) UO_2^{+2} Spectroscopy -- Sandia Corporation, continued load of \$35,000 spectrophotometer.

(6) Gas Phase and Surface Auger Spectroscopy of Simple Ligands -- in conjunction with Group 5114, 5151 Sandia Corp., they are providing facilities and equipment for myself and one graduate student.

(7) Photophysical Properties of e-Beam excited Rhodamine Dyes -- in conjunction with AP-2 Division LASL.

(8) Charge Transfer Photochemistry -- unsupported, proposal in preparation.

5. Other research projects or creative work in progress or completed: (Cont'd) **447**

(d) WILLIAM F. COLEMAN (Cont'd)

(9) Gas Phase Luminescence of Metal Chelates -- unsupported, proposal in preparation.

(e) GUIDO H. DAUB

(1) Synthese of ^{13}C Labeled Benzo[a]pyrenes and related compounds. Grant No. RO 1 CA 16871-2-01 and 02. Amount of Grant \$87,381.00

(2) Grant from Sandia Corporation # 06-5918 in the amount of \$24,679.00 supporting the synthesis and study of organic compounds which may be useful as laser dyes.

(3) Grant from USERDA # EY-76-S-0403581 in the amount of \$6029.00 supporting research on the synthesis and testing of organic compounds which may be useful as laser dyes.

(4) Synthesis of ^{13}C and ^{15}N Labeled compounds (work performed at Los Alamos Scientific Laboratory as visiting staff member, part-time).

(f) ULRICH HOLLSTEIN

(1) First-neighbor Specificities of Steffimycin B.

(2) Synthesis of a phenazine analog of actinomycin and binding to DNA (NIH Grant to 7/31/77, \$31,612.00).

(3) Synthesis and ^{13}C NMR of 5-substituted quinoxalines.

(4) Biosynthesis of iodine.

(g) THOMAS E. JONES

(1) Analytical Applications of Macrocyclic Polythiaether Ligands, funded by Sandia Laboratory, \$13,000.00, Oct 1, 1977 - Sept 30, 1978.

(2) Oxidation-Reduction Reactions of Manganese (III) Chelates.

(3) Steric Effects in Complexation Reactions.

(4) Copper-Sulfate Complexes as Models for "Blue" Copper Proteins.

(h) MILTON KAHN

(1) Studies of the chemical behavior of carrier-free germanium-68 are in progress. This work is supported by a Los Alamos Contract, Order No. NP7-96287-1, June 1977 - May 31, 1978 (\$14,967).

(i) WILLIAM M. LITCHMAN

(1) Double Resonance in AX_3 Spin Systems.

(2) Viscosity of Solutions of Gases under High Pressure.

(3) Isotope Effects in NMR.

5. Other research projects or creative work in progress or completed: (Cont'd) 448

(j) MIRIAM P. MALM

(1) Have signed a contract with D. van Nostrand Publishing Co. to publish material written for Chemistry 212.

(2) Have signed a contract with the Continuing Education Dept. of UNM to produce a correspondence course for Chemistry 212.

(k) DONALD R. MC LAUGHLIN

(1) Stability of HeH_2^+ molecule research completed.

(2) Manuscript submitted on Ground and Excited State Ab Initio Electronic Potential-Energy Surfaces for the HeH_2^+ System by D.R. McLaughlin and D.R. Thompson.

(3) NSF teaching enhancement grant accepted (with College of Education).

(4) NSF proposal "Theoretical Studies of the HeH_2^+ System" submitted.

(l) CARY J. MORROW

(1) Continued research on Gas Chromatographic Resolution of Enantiomers, NIH, \$30,174.00, 2nd year of three year grant.

(2) Continued research toward synthesis of drugs to inhibit biosynthesis of cholesterol. One patent applied for. (Supported by grant to Dr. T. Scallen from NIH).

(3) Continued research on Synthesis of Organophosphorus Compounds having a Potential Physiological Activity, NIH, (MBS Program) \$13,702.00 first year of 3-year renewal.

(4) Continued efforts to synthesize phosphorus-containing analogs of molecules related to the morphine alkaloids.

(m) THOMAS M. NIEMCZYK

(1) "Refractive Index Measurement," Chapter in Physical Methods in Modern Chemical Analysis, edited by Ted Kuwana, Academic Press, scheduled for printing Jan. 1978.

(2) "Infrared-to-Visible Conversion in $(\text{Y}, \text{Yb}, \text{Er})\text{F}_3$ and $(\text{Y}, \text{Yb}, \text{Ho})\text{F}_3$ ", J. Chem. Phys., scheduled for January 1, 1978 issue.

(3) "Evaluation of the Hollow Cathode Discharge as a Chromatographic Detector," grant from Minority Biomedical Support Program, NIH continuing.

(n) ROBERT T. PAINE, JR

(1) Five manuscripts in review process of which two have been accepted to date.

(2) Active Grants:

1. Sandia Corporation, \$59,000, 10/77-9/79, "Chemistry Related to the WIPP Site".

5. Other research projects or creative work in progress or completed: (Cont'd) 449

(n) ROBERT T. PAINE, JR (Cont'd)

(2) Active Grants: (Cont'd)

2. Los Alamos Scientific Lab, \$10,100, 12/77-11/78, "Properties of Uranium Borohydride".

3. Research Corp., \$5,000, 1/77-open, "Photospectroscopy of Actinide and Lanthanide Compounds."

(o) E. PAUL PAPADOPOULOS

(1) Reactions of Azoles with Isocyanates at Elevated Temperature.

(2) Reactions of N-acylthioamides with Dinucleophilic Reagents.

(3) Thermal Cyclization of N'-Ethoxycarbonyl-N-Arylbenzamidines.

(4) Ethyloxalyl Isothiocyanate: A New Isothiocyanate.

(p) SU-MOON PARK

(1) RAC: "Electrochemical Studies on Carcinogenic Compounds," in progress.

(2) RAC: "Electrochemical Studies of β -Carotene, Retinal, and Retinol," completed.

(3) Sandia (\$13,006): "Electrochemical Conversion of Solar Energy," in progress.

(4) "Electrochemical and ECL Studies of (2+2) cycloaddition," completed.

(5) "Electrochemical Studies of Biologically Important Compounds," in progress.

(q) ROBERT E. TAPSCOTT

(1) NIH, \$38,995 direct costs, "Chelate Isomerism with Meso and Prochiral Ligands," April 1, 1976 - March 31, 1977.

(2) NIH, \$50,077 direct costs, "Stereoselective Synthesis of Mixed Ligan Complexes," Sept 1, 1977-August 31, 1980. (Minority Biomedical Sciences Support Program).

(r) DAVID L. VANDER JAGT

(1) HEW 5-K04-CA70939-04, "Role of Glyoxalase and Glutathione in Carcinogenesis", 6-1-77 - 5-31-78, \$32,400.

(2) HEW-5-R01CA17298-03, "Glutathione Metabolism in Normal & Abnormal Tissue", 5-1-77 - 4-30-78, \$16,630.

(3) NCI r-R01-CA11850-06, "Comparative Enzymology of the Glyoxalase System", 6-1-76 - 5-31-77, \$20,198.

(4) NIH CA16871-2, "¹³C-enriched Carcinogens", 6-30-76 - 6-30-77, \$55,696.

5. Other research projects or creative work in progress or completed: (Cont'd) 450

(s) EDWARD A. WALTERS

- (1) Photoionization mass spectrometry in molecular beams, sponsored by AWU and LASL.
- (2) Green River Oil Shale Characterization, sponsored by LASL.
- (3) Hydrogenation Studies of Kerogen and Whole Oil Shale, sponsored by LAST, \$3899, June-August 1977.
- (4) Multiple photon dissociation in molecular beams, sponsored by LASL.
- (5) Rapid proton transfer studies in mixed aqueous DMSO, unsponsored.
- (6) UNM Synthetic Fules Laboratory Research Program, \$15,000, sponsored by ERB, 1 Sept 1977 - 31 Aug 1978.
- (7) Environmental impact of underground coal gasification, unsponsored.
- (8) Short Course on In Situ Energy Recovery Technology, \$10,000, sponsored by ERDA, July 1977.

6. Activities in learned and professional societies:

(a) FRITZ S. ALLEN

- (1) Attended the annual meeting of the Biophysical Society, May 1977, Chicago, IL.

(b) CHARLES F. CAMPANA

- (1) Treasurer -- Central New Mexico Section American Chemical Society.
- (2) Member -- American Crystallographic Association.

(c) WILLIAM F. COLEMAN

- (1) Attended 173rd National ACS Meeting, New Orleans, LA, March 20-25, 1977 and presented 3 papers.

"Photochemical Decomposition of 1,2-Diaminocyclohexanetetraacetato-manganate(III) Ion"

"Charge Transfer Photochemistry of Chromium(III) Complexes"

"Thermal and Photoreactions of Cr(III) Amino Acid Complexes"

- (2) Attended 174th National ACS Meeting, Chicago, IL, August 28-September 2, 1977 and presented 2 papers.

"Charge Transfer Photochemistry of Cr(III)(NH₃)₅X Species"

"Excitation Dependence of the Emission Spectrum of UO₂Cl₂"

- (3) Presented a seminar -- "Relaxation of Highly Excited Electronic States," U. Texas El Paso, April 11, 1977.

6. Activities in learned and professional societies: (Cont'd)

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(d) GUIDO H. DAUB

- (1) Attended the 25th National Organic Chemists Symposium of the American Chemical Society in June 1977.
- (2) Attended the 2nd International Symposium on Polynuclear Hydrocarbon Aromatic Hydrocarbons held in Columbus, Ohio, at the Battelle Institute, Columbus Laboratories in September 1977.
- (3) Attended and participated as discussion leader in the Annual Meeting of the Rocky Mountain Chemistry Chairmen's Meeting held November 17 and 18, 1977, at Boise State University.

(e) RICHARD W. HOLDER

- (1) "Therman Sigmatropic Reactions of Labeled 7-Methylenebicyclo-[4.2.0]oct-2-ene," a paper presented at the 173rd National American Chemical Society Meeting, March 1977.
- (2) Attended 173rd National meeting and the National Organic Symposium of the American Chemical Society, and the Gordon Research Conference on Hydrocarbons.
- (3) Elected Vice-President, Alpha of New Mexico, Phi Beta Kappa.
- (4) Elected Councilor, Central New Mexico Section, American Chemical Society.

(f) THOMAS E. JONES

- (1) Attended the 173rd National Meeting of the American Chemical Society, March 21-25 1977, New Orleans, LA.
- (2) Attended the 174th National Meeting of the American Chemical Society, August 29 - September 2, 1977, Chicago, IL.
- (3) Papers Presented at Professional Meetings:

"The Role of Univalently Reduced Oxygen in the Mechanism of the Oxidation of Hydrogen Peroxide by the 1,2-Diaminocyclohexanetetraacetomanganate(III) Ion," March 21-25, 1977, New Orleans, LA.

"Photolytic Decomposition of 1,2-Diaminocyclohexanetetraacetomanganate(III) Ion," co-authors: A.T. Cooke and W.F. Coleman, 173rd ACS National Meeting, March 21-25, 1977, New Orleans, LA.

"Kinetics of the Complexation of Palladium(II) by Macrocyclic Tetrathiaethers," First Symposium on Macrocyclic Compounds, August 15-17, 1977, Provo, UT.

"Macrocyclic Polythiaether Complexes of Palladium(II)," 174th ACS National Meeting, August 29 - September 2, 1977, Chicago, IL.

6. Activities in learned and professional societies: (Cont'd)

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(f) THOMAS E. JONES (Cont'd)

"The Nature of the Macrocyclic Effect as Exhibited by Copper(II)-Polythiaether Complexes in Aqueous Solution," co-authors: D.B. Rorabacher, L.L. Diaddario, L.S. Dockel, and L.L. Zimmer, 174th ACS National Meeting, August 29 September 2, 1977, Chicago, IL.

"Crown Thiaethers as Selective Analytical Reagents: Cyclic Polythiaether Complexes of Ag(I), Hg(II), Cu(I), and Cu(II)," co-authors: D.B. Rorabacher, L.S.W.L. Sokol, C.S. Liang, E.L. Yee, L.A. Ochrymowycz, 4th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, November 7-11, 1977, Detroit, MI.

"Macrocyclic Ligan Ring Size Effects on Complex Stabilities and Kinetics, Copper and Mercury Complexes of Open-chain and Cyclic Polythiethers," co-authors: D.B. Rorabacher, L.L. Diaddario, E.A. Dockel, L.L. Zimmer and L.A. Ochrymowycz, International Coordination Chemistry Conference, September 6-10, 1976, Hamburg, Germany. (not previously listed).

(3) Attended First Symposium on Macrocyclic Compounds, Aug. 15-17, 1977, Provo, UT.

(g) MILTON KAHN

(1) Member of Sigma Xi, Phi Kappa Phi, American Chemical Society, AAAS (fellow), New Mexico Academy of Science.

(2) Addressed the Los Alamos Scientific Laboratory Advisory Committee on Medical Radioisotopes, May 19, 1977, on the "Chemical Behavior of Carrier-Free Germanium-68"

(h) MIRIAM P. MALM

(1) Member of the American Chemical Society.

(2) Member of the International Society of Heterocyclic Chemistry.

(3) Member of the Editorial Board of the International Journal of Heterocyclic Chemistry.

(i) THOMAS M. NIEMCZYK

(1) "Infrared-to-Visible Converters as Possible IR Detectors" papers presented at the Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy," Feb. 28 - Mar. 4, 1977, Cleveland, OH. Co-author: D.G. Ettinger.

(2) "Gas Phase Kinetics of Atomic Si and Ge Oxidation Reactions," paper presented at 173rd ACS National Meeting, March 20-26, 1977, New Orleans, LA. Co-authors: S.J. Davis, S.G. Hadley, and P.M. Swearengen.

(3) "Matrix Effect Studies in Hollow Cathode Atomic Absorption Spectroscopy," paper presented at 19th Annual Conference on Analytical Chemistry, Aug. 1-3, 1977, Denver, Co. Co-author: D.A. McCamey

6. Activities in learned and professional societies: (Cont'd)

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(i) THOMAS M. NIEMCZYK (Cont'd)

(4) "Electron Temperatures in Hollow Cathode Discharges," paper presented at 19th Annual Conference on Analytical Chemistry, Aug. 1-3, 1977, Denver, CO. Co-author: D.M. Mehs.

(j) ROBERT T. PAINE, JR

(1) Treasurer, Central New Mexico Section of ACS.

(k) E. PAUL PAPADOPOULOS

(1) Presented paper "Reactions of Imidazoles with Isocyanates at Elevated Temperature" at 1977 Annual Meeting of the American Chemical Society, Chicago, IL, Aug. 28 - Sept. 2, 1977.

(l) SU-MOON PARK

Papers presented:

(1) "Electrochemistry of β -Carotene, all-trans-Retinal, and all-trans-Retinol," the 151st Electrochemical Society Meeting, May 8-13, 1977, Philadelphia, PA.

(2) "Fluorescence and Electrogenenerated Chemiluminescence of Dimethyl Benzo(a)pyrenes," 19th Annual Conference on Analytical Chemistry, August 1-3, 1977, Denver, CO.

(3) "Chronopotentiometric Determination of Pseudo-First-Order Decay Rate Constants," 19th Annual Conference in Analytical Chemistry, August 1-3, 1977, Denver, CO.

(4) "Electrogenenerated Chemiluminescence of t-Stilbene Derivatives," The 174th National ACS Meeting, August 28 - September 2, 1977, Chicago, IL. Co-author: J.R. Wilson.

(5) "Electrochemical Studies of Dimethyl-substituted Benzo(a)pyrenes," The 174th National ACS Meeting, August 28 - September 2, 1977, Chicago, IL. Co-author: J.J. Michnovicz.

(6) "Fluctuation Theory Applied to Gravimetric Analysis," The 33rd Southwest Regional ACS Meeting, Dec. 5-7, 1977, Little Rock, AR.

(7) "Determination of Stabilities of Cation Radicals of Several Monomethyl Benzo(a)pyrenes," The 33rd Southwest Regional ACS Meeting, Dec. 5-7, 1977, Little Rock, AR. Co-author: D.A. Tryk.

(m) ROBERT E. TAPSCOTT

(1) Attended the Pacific Conference on Chemistry and Applied Spectroscopy, Anaheim, Calif., Oct 12-14, 1977.

(2) Attended the 173rd American Chemical Society National Meeting, New Orleans, LA., March 21-25, 1977 and presented a paper entitled "Chelate Ring Conformation and Carbon 13 NMR Studies on Tris(meso-2,3-diaminobutane)cobalt(III)."

6. Activities in learned and professional societies: (Cont'd)

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(m) ROBERT E. TAPSCOTT (Cont'd)

(3) Chairman, Central New Mexico Section of the American Chemical Society.

(4) Member of the Local Arrangements Committee for the Spring, 1978 meeting of the Rocky Mountain Region of the American Association for the Advancement of Science.

(5) Symposium Chairman for "NMR Studies on the Stereochemistry of Coordination Compounds", Southwest Regional American Chemical Society Meeting, Corpus Christi, Texas, Nov. 29 - Dec. 1, 1978.

(6) Working with Robert Paine as co-chairman for setting up a Careers Day program sponsored by the Central New Mexico Section ACS with the Department of Chemistry for February 9, 1978.

(7) Active member of American Chemical Society affiliated with the Inorganic Division, Sigma Tau, Sigma Xi, Alpha Chi Sigma, Chemical Society of Britain, and American Assositation for Advancement of Science.

(n) DAVID L. VANDER JAGT

(1) Attended ACS National Meeting, Chicago, IL, presented "Amine Requirements for Activation of 2-Oxoaldehyde Dehydr."

(o) EDWARD A. WALTERS

(1) Spring Meeting ACS, New Orleans, LA, Mar. 20-24, 1977.

(2) ACS Councilor for Central New Mexico Section and National Committee Member of Committee on Professional Relations.

(3) "Potential for Underground Coal Gasification in the Southwest," a paper presented at 2nd CIC-ACS Joint Conference, Montreal, June, 1977. Co-author: Eric H. Nuttall.

(4) "Potential for Underground Coal Gasification in the Southwest," a paper presented at Second Annual Short Course on In Situ Energy Recovery Technology, Albuquerque, July, 1977. Co-author: Eric H. Nuttall.

(5) "The proton Exchange Between p-Nitrophenylacetonitrile and Its Anion in DMSO-H₂O Mixtures," a paper presented at 174th American Chemical Society National Meeting, Chicago, August 1977. Co-authors: L.J. Ferro and W.M. O'Neill.

7. Other professional activities:

(a) CHARLES F. CAMPANA

Consultant - Sandia Laboratories.

(b) ROY D. CATON, JR

(1) Reviewed paper for Journal of Inorganic and Nuclear Chemistry.

7. Other professional activities: (Cont'd)

(b) ROY D. CATON, JR (Cont'd)

- (2) Reviewed Research Proposal for Petroleum Research Fund (Sept. 1977).
- (3) Presented Keynote address entitled "Mans Last Chance?", at the Southwest Junior Science Symposium, April 4, 1977.
- (4) Consultant to ERDA.
- (5) Consultant to Sandia Laboratories.

(c) WILLIAM F. COLEMAN

- (1) Visiting Staff Member, LASL-AP-2.
- (2) Visiting Scientist, Sandia Laboratores, Divisions 5151 & 5114.
- (3) Reviewed 2 proposals for National Science Foundation.
- (4) Reviewed 1 proposal for New Mexico Energy Board.
- (5) Reviewed 2 papers for J. Luminescence.
- (6) Reviewed 1 paper for Rev. Scien. Inst.

(d) GUIDO H. DAUB

- (1) Delivered an invited seminar to the Chemistry Department of Oklahoma State University in October, 1977. Talk was entitled "The Synthesis of ^{13}C Labeled Benzo[a]pyrene and Derivatives".

(e) LORRAINE DECK

- (1) Reviewed organic and inorganic textbook for publication by Holden-Day.
- (2) Reviewed papers for the Journal of Heterocyclic Chemistry.
- (3) Revised laboratory manual for Chem 111.

(f) ULRICH HOLLSTEIN

- (1) Presented talks at Univ. of Utah, Brigham Young University, Utah State Univ. and Fort Lewis College.
- (2) Reviewed papers for Tetrahedron and J. Org. Chem.

(g) THOMAS E. JONES

- (1) Reviewed manuscript for a new introductory text on Analytical Chemistry for John Wiley and Sons, Inc., Publishers.

7. Other professional activities: (Cont'd)

(h) MILTON KAHN

(1) Consultant to Los Alamos Scientific Laboratory.

(i) DONALD R. MC LAUGHLIN

(1) Reviewed article for publication in the J. of Chem. Ed.

(2) Reviewed book "Qualitative Methods in Quantum Theory" for J. Chem. Ed.

(3) Reviewed Pilar's Quantum Chemistry, 2nd ed. for McGraw-Hill.

(j) CARY J. MORROW

(1) Referee for Journal of Organic Chemistry.

(2) Presented a demonstration at a local school

(3) Coauthor of departmental proposal for summer support of Undergraduate research (NSF-URP) program.

(4) Regional Science Fair Judge.

(k) THOMAS M. NIEMCZYK

(1) Consultant, Kirtland AFB Weapons Laboratory.

(2) Invited Seminar, Department of Chemistry, Univ. of Arizona, Tucson, AZ, Feb. 1977.

(3) Invited Seminar, Department of Chemistry, Univ. of Houston, Houston, TX, Nov. 1977.

(4) D.G. Ettinger (June 1977) and P.M. Swearingen (Aug 1977) completed doctoral dissertations under my direction.

(5) Elected to position of Alternate Councilor, Rocky Mountain Regional ACS.

(l) ROBERT T. PAINE, JR

(1) Consultant at Sandia Labs.

(2) Consultant at Los Alamos Scientific Labs.

(m) E. PAUL PAPADOPOULOS

(1) Delivered invited seminar "Reactions of Azoles with Isocyanates at Elevated Temperature" at the College of Pharmacy, University of Utah (Nov. 14, 1977) and the Department of Chemistry, Brigham Young University (Nov. 15, 1977).

(n) SU-MOON PARK

(1) Gave a Departmental Seminar entitled "Light Generating Processes of Electrochemiluminescence," at Dept. of Chemistry, Texas Tech University, Lubbock, TX, Dec. 7, 1977.

7. Other professional activities: (Cont'd)

(n) SU-MOON PARK (Cont'd)

(2) Refereed a paper for Journal of Electrochemical Society (May 1977).

(o) DAVID L. VANDER JAGT

(1) Presented research seminar, New Mexico State University.

(p) EDWARD A. WALTERS

(1) Visiting staff member, Los Alamos Scientific Laboratory.

(2) Reviewed papers for Journal of Chemical Education and Journal of the American Chemical Society.

8. Non-teaching University service:

(a) FRITZ S. ALLEN

(1) Chairman of A&S Health Sciences Advicement Committee.

(2) Member of University Computer Use Committee.

(b) CHARLES F. CAMPANA

(1) Faculty Advisor - American Chemical Society Student Affiliate Chapter.

(2) Chairman - Departmental Computing Committee.

(3) Member - Departmental Undergraduate Curriculum Committee.

(4) Member - Departmental Equipment Committee.

(5) Prepared Departmental Instrumentation Proposal to National Science Foundation (submitted January 15, 1977).

(6) Prepared Departmental Instrumentation Proposal to National Science Foundation (submitted November 1, 1977).

(7) Set up Departmental x-ray crystallographic laboratory.

(8) Implemented complete crystallographic program library on IBM 360 computer.

(c) ROY D. CATON, JR

(1) Student Standards Committee.

(2) Various Department committees (Chairman, Dept. Safety Committee).

(d) WILLIAM F. COLEMAN

(1) Member, Faculty Senate Executive Committee.

(2) Chairman, Senate Committee on Undergraduate Academic Affairs.

8. Non-teaching University service: (Cont'd)

(d) WILLIAM F. COLEMAN (Cont'd)

- (3) Ex Officio Member Curricula Committee.
- (4) Member, Provosts Advisory Committee on Priorities.
- (5) Member, A&S Graduate Committee.
- (6) Chairman, A&S Graduate Committee Jurisdiction Subcommittee.
- (7) Member, A&S Promotion Advisory Committee.
- (8) ACS Student Affiliate Advisor to 9/77.
- (9) Chairman, Department Graduate Studies Committee.
- (10) Member, Department Equipment Expenditures and Maintenance Subcommittee, Undergraduate Career Advisement Committee, and Building and Space Committee.
- (11) Organized and participated in first new graduate student orientation.
- (12) Participated in careers night.
- (13) Participated in drafting department position paper for Provost.
- (14) Member, U. Hollstein teaching evaluation committee.
- (15) Prepared Department URP Proposal to NSF - decision still pending.

(e) GUIDO H. DAUB

- (1) Chairman, Department of Chemistry, The University of New Mexico, ad hoc member of all Chemistry committees, advisor to premedical, predoctoral and preveterinary students at UNM.

(f) LORRAINE DECK

- (1) Chairman of Chemistry Department Public Relations and Social Functions Subcommittee.
- (2) Chemistry Dept. key person for Greater UNM Fund.

(g) RICHARD W. HOLDER

- (1) University Curricula Committee.

(h) ULRICH HOLLSTEIN

- (1) Member of Research Allocations Committee.

(h) THOMAS E. JONES

- (1) Faculty Sponsor for Presidential Scholars.

8. Non-teaching University service: (Cont'd)

(i) MILTON KAHN

- (1) Member of University Honors Council.
- (2) Member of the following departmental committees: (a) Undergraduate Curriculum Committee and Honors Subcommittee; (b) Library Subcommittee.
- (3) Committee on Studies for Graduate Students, Glenn Douglas Pierce - Doctoral Candidate in Civil Engineering.

(j) DONALD R. MC LAUGHLIN

- (1) Faculty advisor for LDS Student Association.
- (2) Member Department Safety Committee.

(k) CARY J. MORROW

- (1) General academic advisor.
- (2) Departmental Committees: Graduate Studies; Chairman, Library Committee.
- (3) University Committees: Science Colloquium, Sandia Colloquium.

(l) THOMAS M. NIEMCZYK

- (1) Chairman, Chemistry Seminar Committee.
- (2) Chairman, Chemistry Distinguished Professor Search Committee.

(m) ROBERT T. PAINE, JR

- (1) Assistant Chairman, Department of Chemistry.

(n) SU-MOON PARK

- (1) Departmental Committees: Undergraduate Curriculum and Honors Committee; Graduate Studies Committee.

(o) ROBERT E. TAPSCOTT

- (1) UNM Minority Biomedical Support Program Advisory Committee.
- (2) UNM Graduate Center for Minorities Proposal Development steering committee.
- (3) Chairman, Chemistry Department Graduate Recruitment and Selection Committee.
- (4) Set up and ran an orientation program for new Chemistry graduate students, Fall, 1977.
- (5) Member of 16 Committees on Study. Chairman of six. Read 5 Ph.D. and 1 master's theses during year.

8. Non-teaching University service: (Cont'd)

(p) EDWARD A. WALTERS

(1) Faculty advisor to 4 graduate students; one thesis completed by Georgia T. Fritz, August 1977; served on thesis committee of 3 graduate students.

(2) Member, Departmental Graduate Student Recruitment and Selection Committee.

9. Public service:

(a) ROY D. CATON, JR

(1) Active member of the University Heights Association (formerly University Heights Community Action Group).

(b) WILLIAM F. COLEMAN

(1) Played sazaphone and sang in UNM Faculty Follies.

(2) Advisor to APS Career Enrichment Center.

(3) Advisor to APS Chemistry Programs and Science Fair Projects.

(4) Chairman, Physical Sciences Judging Panel, Regional Science Fair.

(5) Sang in Barbershop Quartet for Albuquerque Press Club and UNM Basketball Game Halftime Show.

(c) DONALD R. MC LAUGHLIN

(1) Troup 201 committee member, Boy Scouts of America.

(d) EDWARD A. WALTERS

(1) Member, St. Luke's Lutheran Church.

(2) Assistant coach, American Youth Soccer Organization.

10. Personal information:

(a) WILLIAM F. COLEMAN

(1) Total weight loss 130 lbs -- constant for about 11 months now.

(b) ULRICH HOLLSTEIN

(1) Have attempted to predict my activities from Dec. 15 (the deadline of this form) through Dec. 31 (the end of the period for this form), but failed.

(c) DAVID L. VANDER JAGT

(1) New Son, Thomas Andrew 10-1-77.

DATE: January 27, 1977

Nathaniel Wollman, Dean, College of Arts and Sciences

Guido H. Daub, Chairman, Department of Chemistry and R. T. Paine, Chemistry

Projected Building and Renovation Plans for Chemistry

This is a follow-up memorandum to two you have received from the Chemistry Department related to our needs for space. These were dated January 20, 1977, and November 30, 1976, and are attached.

The Chemistry Department Building Committee has been studying for some time various alternatives to our pressing instructional and research space needs. We have drafted a preliminary plan containing two phases:

- (a) renovation and reorganization of old laboratory facilities in Clark Hall to provide more efficient space utilization.
- (b) construction of a new Chemistry Building Wing to house instructional and laboratory programs with a suggested size of about 25,000 -30,000 square feet.

A. RENOVATION

At the present time the Chemistry Program is very cramped in its existing quarters. The renovation projects will relieve some of the crowding condition, but additional new space is required in order for us to continually upgrade the program.

You will find attached an outline of our proposal. Plans of the present Chemistry Building are included to help demonstrate the suggested changes.

Renovation of Clark Hall

We previously submitted a request for funds to renovate Rooms 211, 104, 106, 108, 204A, 109 and 109A (see memorandum from R. T. Paine, November 30, 1976*). This request has top priority for this year. A unified plan for the complete renovation of Clark Hall will be presented here.

Since November, we have decided to reinstitute trailer sections in Chemistry 101-102 and Chemistry 301-302. Pressure has been mounting for this move. In order to have trailer sections we need additional instructional space, faculty office space and faculty research space. The following renovation projects are requested:

*(see next page)

<u>Project</u>	<u>Cost</u>
Room 211 - Research	\$18,500
Rooms 104, 106, 108 - Chemistry 253L	\$100,000
Rooms 109, 109A - Chemistry 101L-102L	\$100,000
Room 204A - Office	\$1,000
Rooms B15, B16 Chemistry 121L-122L	\$20,000
Room 203 Classroom	
Room 101 Classroom	
Miscellaneous lighting and plumbing projects	\$25,000
Room 215A - Student Office Conversion	\$12,000

Renovation: Explanatory Notes

Room 121 - a full explanation of this project has been previously submitted (see memorandum from R. T. Paine, November 30, 1976). This room will house a badly needed centralized instrument room for the Inorganic Division.

Room 104, 106, 108, 112, 116 - an explanation of this project was also given in the November memorandum. The project will provide a complete set of modern laboratories for Chemistry 253L located centrally in Clark Hall. The office Room 104 will be made into a balance room, while Rooms 106 and 108 will be converted to student laboratories with new laboratory furniture. Old furniture in Rooms 116 and 112 will also be replaced with new furniture.

Room 109, 109A. This laboratory now houses sections of Chemistry 101-102 and Chemistry 121-122. The laboratory furniture is very old and needs replacing. We suggested that these laboratories be completely renovated and reconstructed exactly as Room 207. These two laboratories together can accommodate all of the laboratory sections of Chemistry 101-102. The accompanying plan schematically shows how this may be accomplished.

Room 204A. This is a simple office renovation. Dr. Litchman will move from his present office in Room 104 to make way for the Chemistry 253L laboratory program. His new office will be Room 202. Dr. Caton will move from Room 202 to 204A adjoining his laboratory in 204B.

Room B15, B15. This laboratory is now used as an overflow laboratory for Chemistry 253L. We suggest that this laboratory be renovated for temporary housing of Chemistry 121-122 which would be housed in the new wing when it is completed. The laboratory furniture is adequate in the room but the hoods need to be renovated, additional laboratory furniture installed, new lighting installed and windows sealed off.

Room 203. This classroom requires new seating.

Room 101. This classroom requires new seating.

Room 215A This room now contains four student desks and a black board. It is open at the top five feet of wall adjoining Room 215B. This partitioning wall should be taken down and Room 215A made part of 215B. Two sections of new laboratory bench furniture and some cabinets and shelving would be required. The vacuum lattice racks in 215B should be reconstructed.

B. NEW WING

Chemistry 101-102 Instructional Center

The center would consist of the following:

- a. two T.V. viewing rooms for display of Chemistry 101-102 lecture review and instructional tapes. They would also be used for recitation meetings.
Size: 45 student capacity
Usage: 8/9 hr/day
- b. secretary's office - one secretary would handle the freshman program load
- c. faculty office
- d. teaching assistant carrels: all Chemistry 101-102, 121-122 and 141 laboratory instructors would be centrally located here in a partitioned room space for 20 carrell space offices.
- e. Self instruction room:
room for 20 carrels containing sound and visual aids equipment and related instructional material.

Chemistry 121-122 laboratory

A new laboratory for this course is desperately needed. It should be able to house six sections per week with desks for 18 students per section: total 128 student desks - we estimate about 2000 square feet.

Chemistry 331-454 Laboratory

A new laboratory is required for this course. Moving the course from its current space, Room 171, will relieve that laboratory for overflow use in Organic Chemistry. The new laboratory will be designed specifically for the course requirements. One room will serve as a "wet-laboratory" having 40 lockers and several hoods. A second laboratory of about 800 square feet will house the instrumentation for the course.

Chemistry 332 plus New Senior Laboratory

A laboratory very similar to the Chemistry 331-454 laboratory is required. There should be a wet laboratory with about 40 desks, a vacuum rack and tables for ovens and balances. An adjoining room for instrumentation would be required. About 1000 square feet total are required.

Instructional Laboratories

Several rooms are needed for housing major instrumentation facilities which we will add in the next ten years. Separate rooms for the following instruments are needed.

<u>Instrument</u>	<u>Space</u>
a) Fast Fourier Transform I.R. spectrometer	~600 square feet
b) Raman Spectrometer	~600 square feet
c) ESR Spectrometer	~800 square feet
d) Laser Spectroscopy Laboratory	~800 square feet
e) Grating I.R. Spectrometer	~500 square feet
f) Organic Instrument Room	~600 square feet
g) Mass Spectrometer	~500 square feet
h) Unassigned	~1500 square feet

All but the Organic Instrumentation laboratory could be housed in the basement in a large open laboratory which will be divided off into individual rooms by temporary partitions. This would allow greatest flexibility.

Research Space

Several faculty are now in very cramped quarters. We need three additional laboratories for these people with about 2000 square feet total.

Our current estimate on addition of faculty during the next ten years would be that the department should add three to five new faculty positions during that time. In order to accommodate such additional faculty, we would need research space of between 6,000 and 9,000 square feet. This would be additional space needed above our current situation.

An autoclave room is needed to allow faculty and students to conduct reactions under high pressure (hydrogenation, amination and other reactions requiring high pressure systems). It would be best if this room was situated as a "penthouse" on the top of the new addition. This laboratory should have approximately 700 square feet of usable space.

A new meeting room is needed with seating capacity of approximately 30 people for use as a small seminar room, a small classroom, or a faculty meeting room. This room should be approximately two times the size of Room 166 in the Riebsomer Wing. Adjoining this room should be a small room in the form of a kitchenette to allow the preparation of such things as coffee or snacks for certain kinds of meetings.

An additional classroom seating approximately 50 people should also be added. This room can be used for both seminars and small classes.

Some faculty have asked that the Chemistry Department facility include a lounge. My personal feeling is that the meeting room suggested above with the kitchenette attached should suffice for that purpose. The electronic shop we presently have in the Riebsomer Wing will probably have to be used to provide expansion space for Dr. Niemczyk's research requirements. It is suggested that a new electronics shop be included in the new wing so that Mr. George could move into a new shop and Niemczyk can absorb the current space occupied by Mr. George. This new electronics shop would require approximately 500 square feet.

We estimate that all of the usable space in the new wing will total approximately 25,000 + 5000 square feet. Attached to this memorandum are copies of floor plans of our current space. In the floor plan for the old Chemistry Building, we have presented two copies of the floor plan. The first copy shows the situation as it now is and the second copy shows the situation after our recommended renovation has taken place. I hope these plans will be of some value to you in presenting our case for additional and renovated space.

DATE: January 20, 1977

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Nathaniel Wollman, Dean, College of Arts and Sciences

Guido H. Daub, Chairman, Department of Chemistry

SUBJECT: Building Priorities

This is in answer to your memorandum of January 17, 1977, regarding building priorities for the Chemistry Department. Please be advised that we are sorely in need of some extensive renovation and a new wing to help relieve our present crowded situation. A memorandum was mailed to you on November 30, 1976, from Professor Paine who is chairman of our Space Committee indicating that approximately \$220,000 were needed for renovation of the original Clark Hall facility. In this memorandum he spelled out pretty definitely what we have in mind and I am attaching to this memorandum a copy of this original memorandum. I want to emphasize that the renovation will not necessarily relieve our pressing needs, but will indeed improve our facilities for teaching several courses and for research. The furniture in the room specified in this memorandum is of such age that it should be replaced as soon as the funds can be found to finance the operation. In addition, the conversion of Professor Litchman's office and Rooms 106 and 108 into an additional quantitative analysis laboratory is highly desirable at this time. If at all possible, I would hope that this latter renovation could be carried out this coming summer. I am alerting Dr. Paine on the substance of the January 17 memorandum and will encourage him to try to get some information to you on our building needs as well.

DATE: November 30, 1976

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athaniel Wollman, Dean, College of Arts and Sciences

T. Paine, Chairman, Space Committee, Department of Chemistry

In the latter part of last fiscal year the Chemistry Department submitted a request for funds which would have permitted the renovation of deteriorated laboratories in Clark Hall. That request was turned down by the Central Administration due to lack of funds. The ad hoc committee on space allocation in the Chemistry Department has reassessed the departmental needs and they submit the following renovation plan and funding request.

Room 211. When Clark Hall was constructed this room was furnished with old laboratory benches from Old Chemistry so this furniture is in excess of forty years old. Room 211 served as a research laboratory for a number of years and then was rented to La Llave by the University. La Llave moved out about one and one-half years ago due to our pressing need for space. The room has been used extensively since then but the badly deteriorated laboratory tables and plumbing are making further utilization impossible. A renovation plan has been presented by the inorganic division of the department which will make the room usable again. The estimated cost for replacing the old benches with equivalent new ones is \$16,000. New benches and cabinets along the north wall and down the center of the room will be installed along with a vacuum lattice rack and shelves.

The refurbished room will be used for the most part by the four inorganic faculty and their students. Common instrumentation used by these faculty, which is now inconveniently disbursed about the building, will be centralized in this room. The equipment consists of:

- Osmometer
- Conductivity bridge
- Vacuum lines and airless-ware systems
- Leak detector
- Portable vacuum system
- Polorimeter
- Vacuum evaporators
- Magnet and quartz microbalance
- Tensimeter

Equipment which will be located in this room includes:

- Infrared spectrometer
- Visible - U.V. spectrometer
- Dry box
- Cyclic voltametry system

The renovation and centralization of equipment will benefit the research efforts of a number of faculty and students. It will further aid in the supervision of sensitive equipment and it will reduce the duplicate purchase of a number of common items.

Rooms 104, 106, 108, 204A.

At the present time Chemistry 253, Quantitative Analysis Laboratory, utilizes Rooms 112, 116, and 118. Two rooms are for actual laboratory manipulations and one small room houses unknown samples and standard solutions. There is more enrollment in this class than these rooms can handle so the overflow is accommodated in a basement laboratory, Room B15. This situation causes a number of logistical problems for the instructors and students. The Space Committee has suggested that Rooms 104, 106, and 108 (two research laboratories and Dr. Litchman's office) be renovated and made part of the Chemistry 253 complex. Rooms 108 and 106 are old research laboratories that have not been extensively used of late. Dr. Caton has drawn plans for the conversion of these rooms to laboratories suitable for Chemistry 253. Room 104 will be converted easily to a balance room. Dr. Litchman's office will be moved to Dr. Caton's present office, Room 202 and Dr. Caton will move to Room 204A. Room 204A requires some minor repair and painting before it can be occupied. The total cost for this change is estimated to be \$80,000-\$100,000 with the bulk going for renovation of 108 and 106.

Rooms 109 and 109A.

These rooms presently house the Chemistry 121-122 freshman chemistry laboratory. This course handles our best chemistry major students. These top students must use the most run down student laboratory in the building. The laboratory benches originated from Old Chemistry so they are more than forty years old. The wood lockers are badly decayed which creates a safety problem as well as a laboratory equipment security problem. The Space Committee proposes that the rooms be refurnished, repainted and relighted and the hoods replaced. Renovation plans have been submitted by Dr. Coleman and the price estimate for renovation is \$100,000.

These last two renovation projects will be very expensive. We realize this fully and that is why we are doing as much as possible to utilize our present space before we request a new wing. During a recent open house in the Chemistry Department for high school science teachers, the teachers were shown typical student laboratories. They were surprised and disappointed when they saw laboratories such as 109, 109A B15 and 110. We can not expect to compete against other universities in our region for top undergraduates without providing competitive facilities.

The requests outlined here are the result of considerable study by the Chemistry Department. The recommendations and funding request are intended to save the University money and greatly improve the student educational/research product. With consolidations we have already made and these planned renovations we are at the point of being out of space. The Space Committee is now attempting to assess our future needs for space and an expansion plan will be submitted shortly.

Summary Budget Request

For: Renovation of Clark Hall (Chemistry)

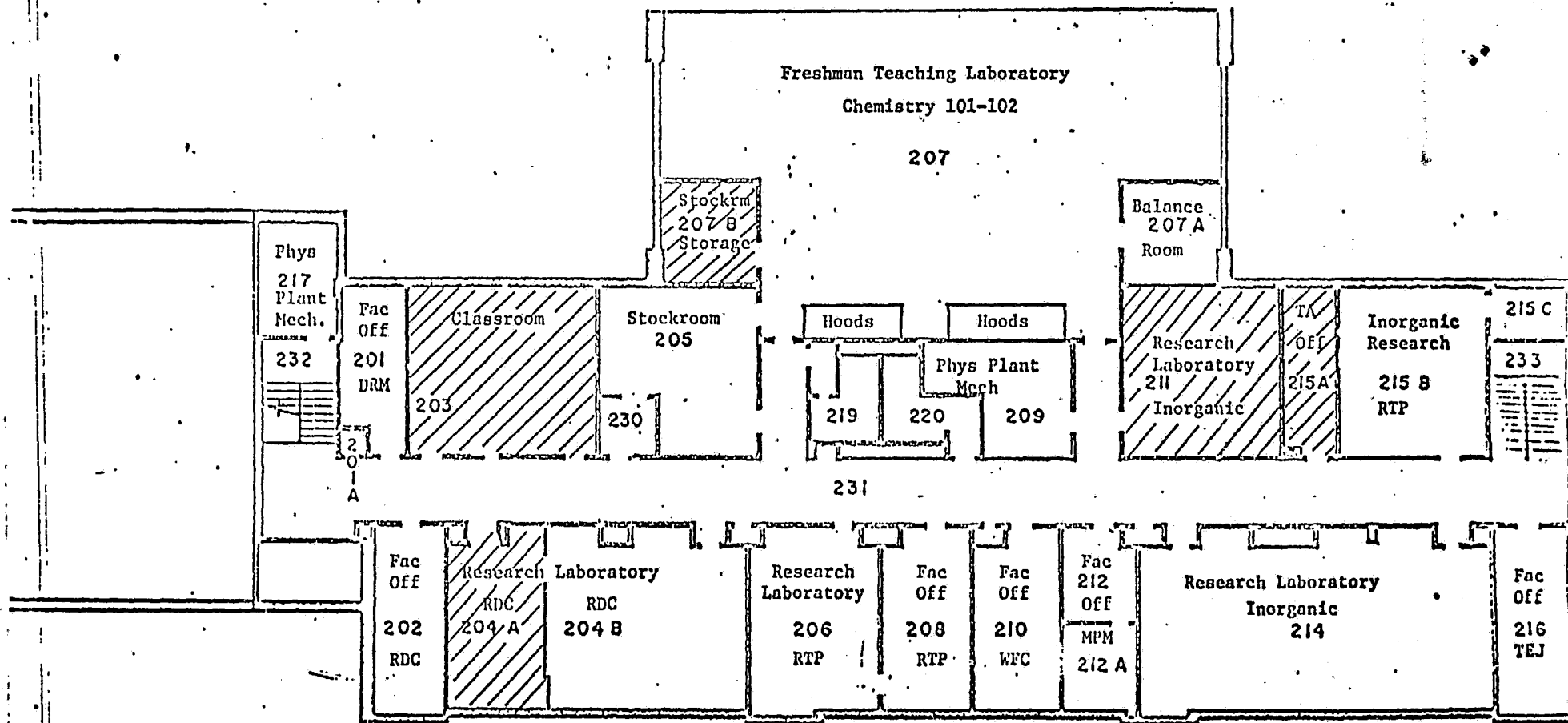
RoomsEstimated Cost

211	\$16,000
104, 106, 108, 204A	\$80,000-\$100,000
109, 109A	<u>\$100,000</u>
	\$196,000-\$216,000.

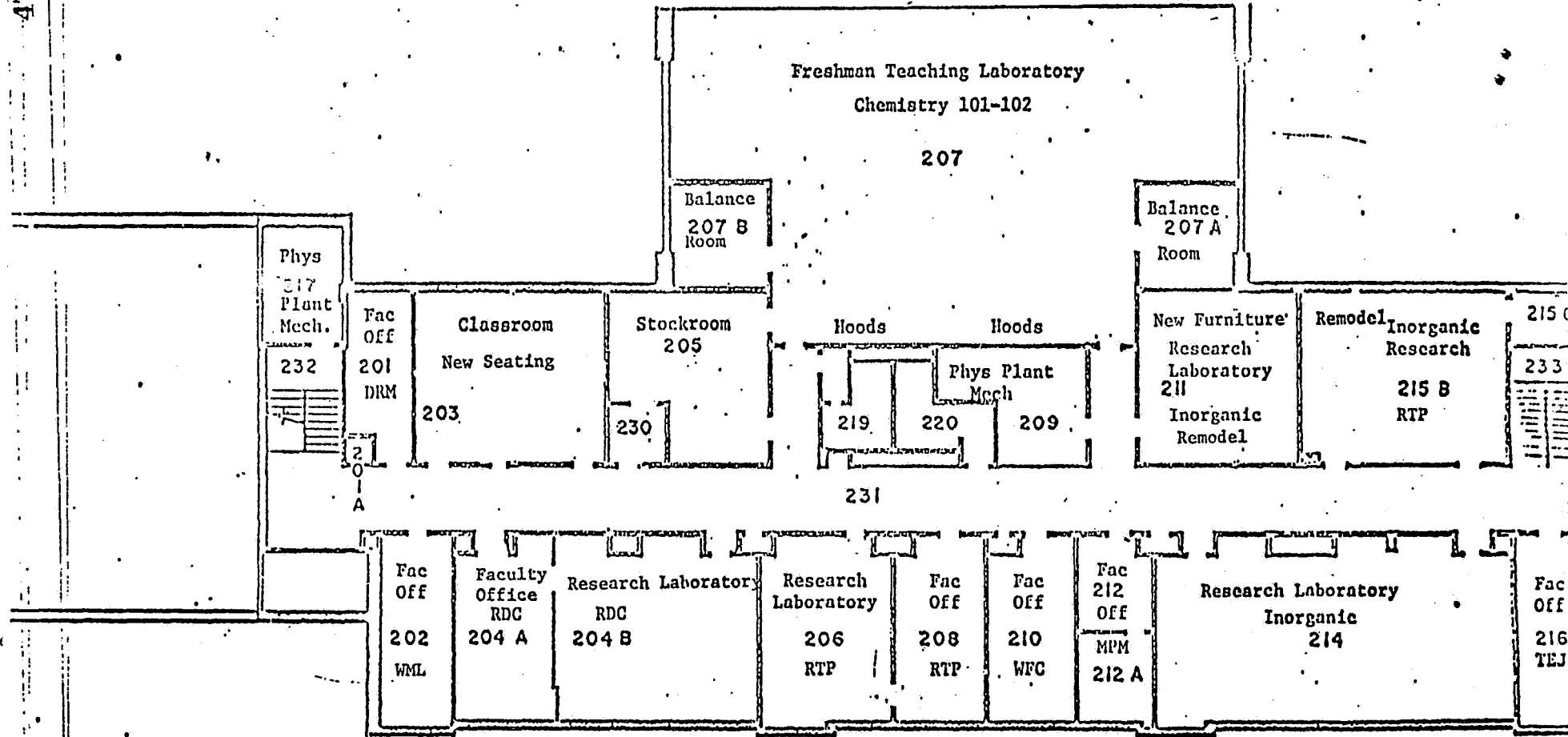



- Spaces to be Renovated

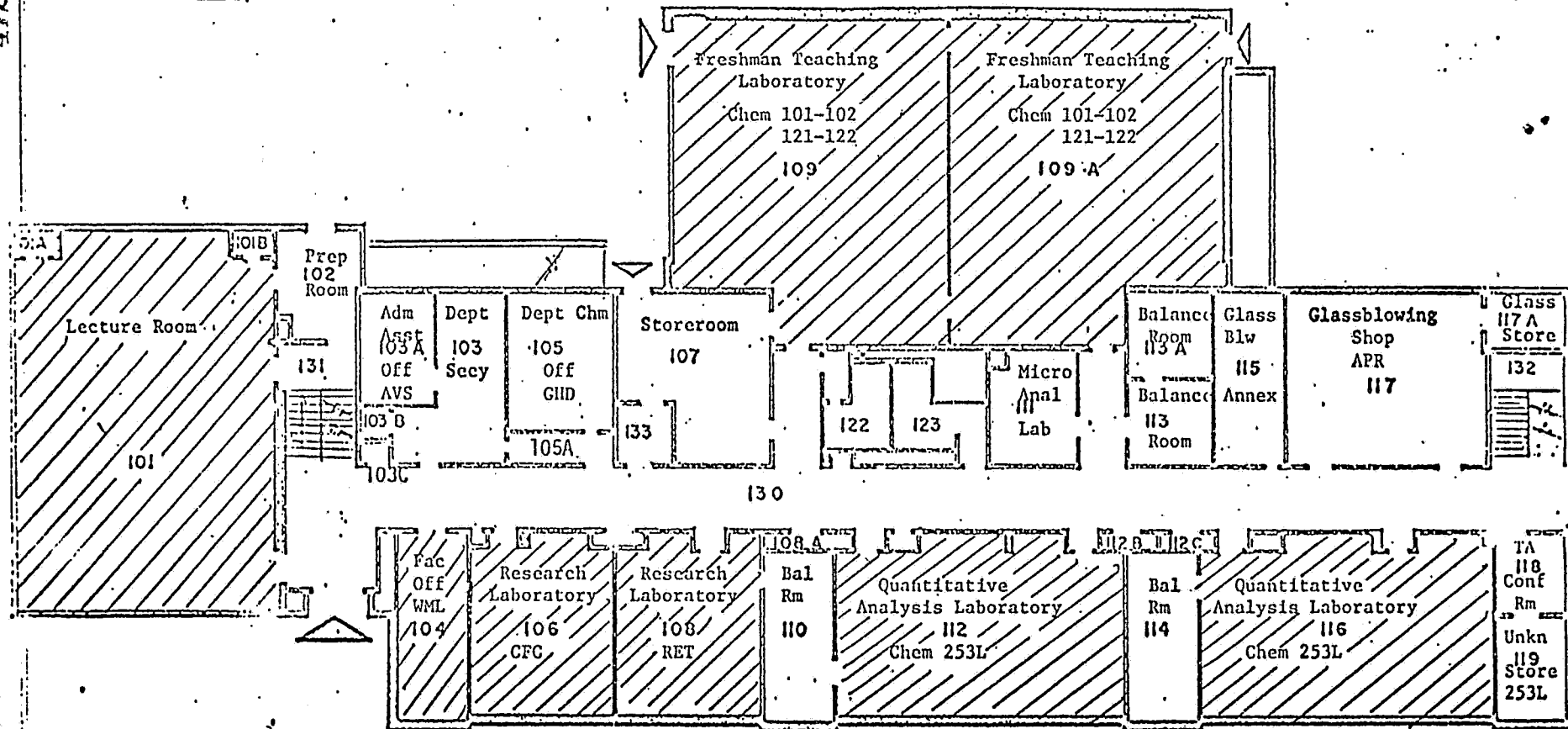
Second Floor - Old Chemistry Building

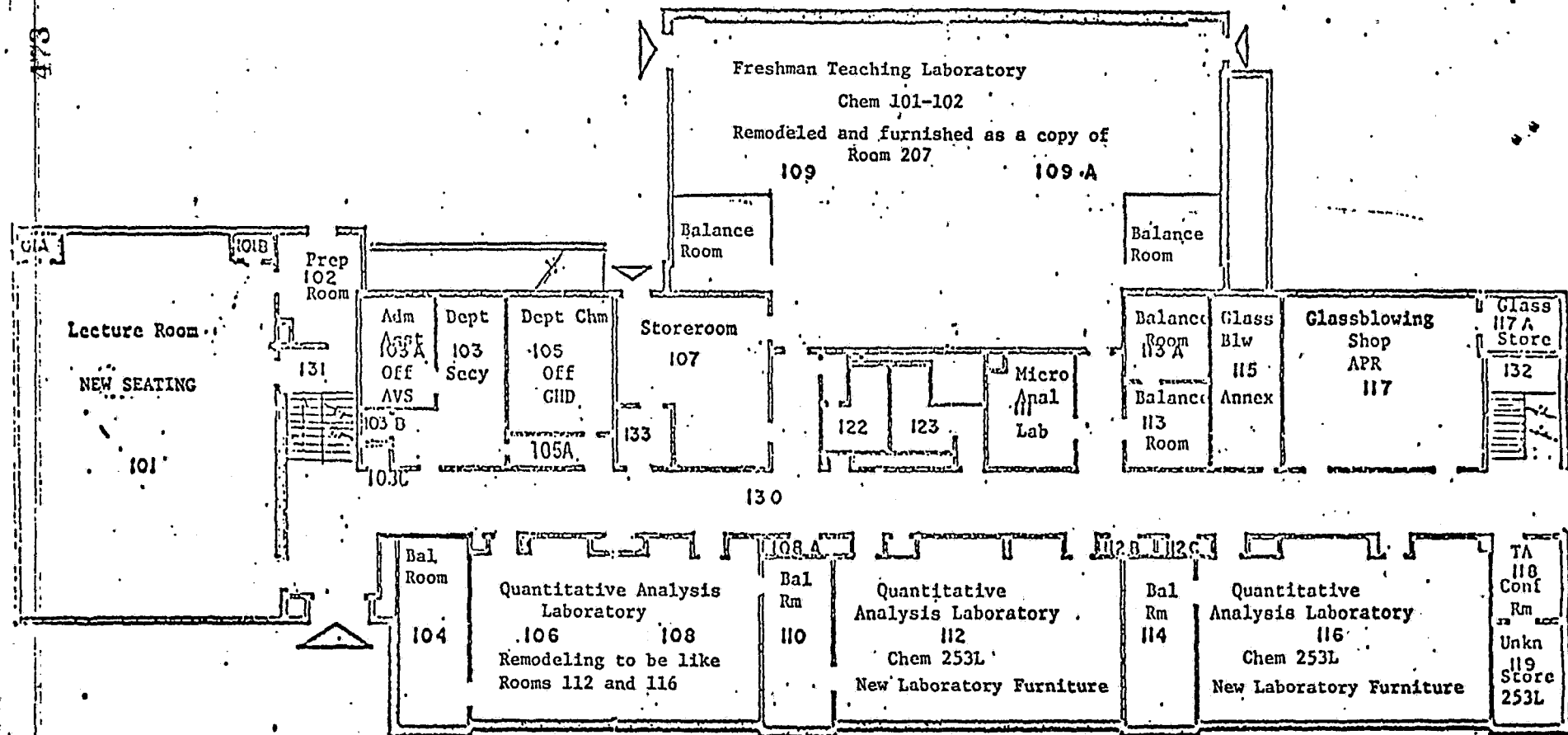



AFTER RENOVATION



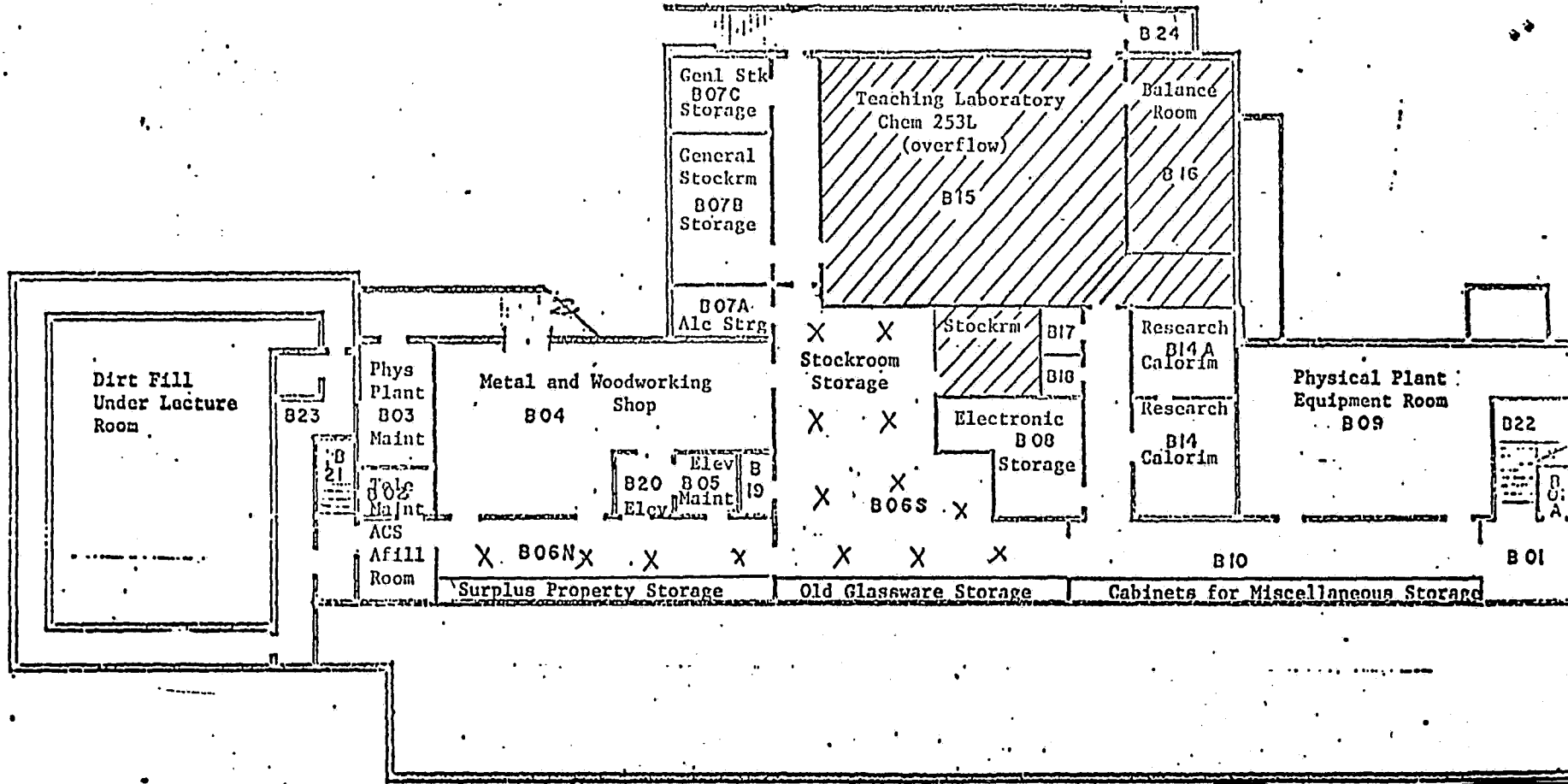
 - Spaces to be Renovated





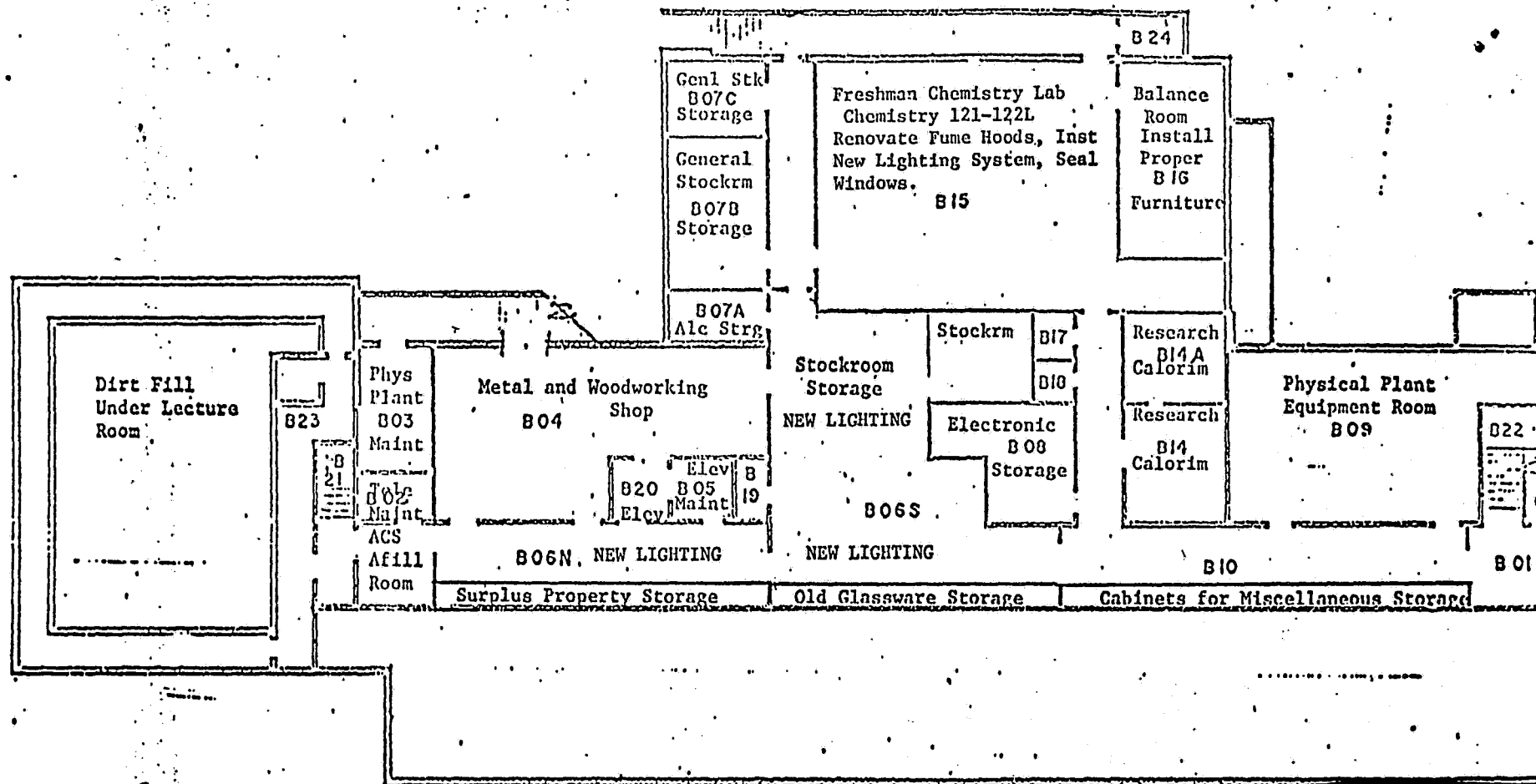
-  - Space to be Renovated
- X - Lighting Only

BASEMENT-OLD CHEMISTRY BUILDING



BASEMENT-OLD CHEMISTRY BUILDING

AFTER RENOVATION



REPORT OF THE DEPARTMENT OF COMMUNICATIVE DISORDERS

July 1, 1977 - June 30, 1978

Lloyd E. Lamb, Chairman

1. Program Achievements

- A. The Department Curriculum Committee, co-chaired by Drs. Hood and Butt, continued the curriculum review with several changes being recommended. The committee also continued discussion of our comprehensive examination policy and format and made several changes in our present examinations. Two graduate students participated in curriculum meetings and served as liaison with the student organization.
- B. We have continued our efforts to upgrade all aspects of the Department through several approaches to program evaluation. Included were the following:
1. The entire faculty and student representatives participated in weekly faculty and curriculum meetings.
 2. Meetings were held with graduate students to solicit input regarding program needs and possible means of improvement.
 3. The student review committee consisting of Drs. Hood, Lybolt and Lamb screened all applicants for the graduate program. Drs. Hood and Lybolt, with assistance from others when needed, reviewed academic and clinical programs and progress of almost all of the graduate students. Attempts were made to identify and correct any weaknesses and to insure that students meet certification requirements of the American Speech and Hearing Association as

well as graduate school requirements.

- C. Our Field Study program, through which graduate students are placed for clinical training during their final semester, has continued to grow. Among local field study sites are the V.A. Hospital, the Albuquerque Public Schools, the Rehabilitation Center, Inc. and the New Mexico School for the Deaf. We have also arranged to place students at rehabilitation facilities in Texas and California and at the Mailman Child Study Center in Miami, Florida.
- D. This year we strengthened our affiliations with the Albuquerque Public Schools. Among other contacts this year were the following:
1. APS Oral Language Speech and Hearing (OLSH) Coordinators attended faculty and curriculum committee meetings to provide input on APS needs and ways we might modify our program so that our graduates will better meet their needs.
 2. Communicative Disorders students were assigned to a number of public school settings for practicum experience. Students gained experience in speech and language testing and therapy and in hearing screening.
 3. Several faculty members, including Dolores Butt, Richard Hood, Mary Bolton and Carol Westby consulted with APS personnel in various situations and assisted in in-service training.
 4. This year we began work on a continuing education program aimed at upgrading the knowledge and skills of practicing

speech pathologists, especially those employed by Albuquerque Public Schools. We have agreed to teach a three credit course next year, geared to meet specific needs expressed by public school personnel. The course, will be taught under Communicative Disorders 420:

Workshop in Communicative Disorders.

5. We are planning a special course for parents serving as teacher aides in the public schools. This course, which will be offered in the 1978 Fall Semester, is being developed by APS and Communicative Disorders personnel. The course will be taught as Communicative Disorders 220:

Workshop in Communicative Disorders.

E. We have continued cooperative activities with Programs for Children this year, working primarily with Dr. Carol Westby, the Programs for Children Developmental Disabilities Team language specialist. Joint activities this year included the following:

1. Communicative Disorders graduate students gained practicum experience with developmentally disabled children under supervision of Dr. Westby.
2. Dr. Westby taught Communicative Disorders 450: Neuro-anatomy and Neuropathologies last fall and is teaching a special course this summer titled Cognitive Development.
3. We are developing a special diagnostic playroom in our North Campus Communicative Disorders Unit to be used in evaluating cognitive development in young children. Dr.

Westby will coordinate clinical-research activities in this facility and is helping to equip it using Programs for Children funds.

F. During 1977 we were forced to vacate a majority of the space we had occupied for four years in the North Campus Surge Building. In its place we have been assigned four modular buildings located at the corner of Frontier and Vassar NE. This facility, to be called the Communicative Disorders Unit, has been remodeled and is now ready for occupancy. The buildings will house four full-time faculty members and one or two secretaries. They contain five diagnosis-treatment rooms, a diagnostic play room and parent intervention teaching area, speech science and organics laboratories and other rooms. The facility will be used for clinical practicum, laboratory teaching and reasearch.

G. Early Identification - Early Language Intervention Program
The early identification project mentioned in last years' report has expanded into a major departmental program. During the past year we have followed over 200 high risk babies from the BCMC Neonatal Intensive Care Unit. Faculty and students have begun a longitudinal hearing test program and we have monitored the babies for other signs that indicate the possibility of speech and/or language disorders or other problems. Linda Weir, Supervisor in Audiology, has worked closely with several neonatologists from the Department of Pediatrics to develop and implement the program.

We have also initiated an early language intervention program for hearing impaired or developmentally disabled children.

Jan Loeppky, Supervisor in Audiology, is primarily responsible for the hearing program, which already is providing services for over fifteen children. Dr. Carol Westby is coordinating activities with the developmentally disabled children.

A primary focus of the intervention program is parent training. The new north campus Communicative Disorders Unit has space specially designed for parent training and will be the focal point of the program.

Long range plans for the early identification - early intervention programs include development of outreach components, such as satellite centers or mobile unit activities, to provide services to other areas of the state. To this end we have obtained written endorsements and promises of support from several groups outside Albuquerque, including the San Juan Regional Medical Center in Farmington, the Northern New Mexico Rehabilitation Center in Las Vegas and the State School for the Deaf in Santa Fe. We are preparing an application for a federal grant to help develop the program.

H. Indian Health Service Research Affiliations -

The Indian Health Service is providing equipment and personnel support for several collaborative hearing studies being conducted at BCMC. Linda Weir is coordinating the projects with the assistance of Betty Watrous, M.A. and Wayne Swisher, Ph.D., of the Indian Health Service.

At present we are investigating cardiac audiometry and respiration audiometry and are working toward joint research efforts in brain stem evoked response audiometry.

11. Non-University Support

The training grant from the U. S. Office of Education, Bureau of Education for the Handicapped, was funded at \$47,000 for 1977-78. Next year's grant has also been approved at \$47,000. Next year the grant will include complete support for Judy Williams and Jan Loeppky, clinical supervisors, as well as partial support for Curtis Weiss, Associate Professor. It also provides stipends for five graduate students, as well as funds for travel and other project costs. Part of the grant has been earmarked as support for the early language intervention program. The new grant became effective June 1, 1978.

The New Mexico Elks Cerebral Palsy Commission provides a grant each year to support a graduate student and to cover other expenses of our cerebral palsy service program. This year's grant totaled approximately \$4,000. We also had small service contracts with the Los Lunas State Hospital and Training Center (\$2,800) and Programs for Children (\$1,400). The contracts covered primarily hearing test services provided at BCMC.

Partial or total support was provided under various contracts or grants for the following Communicative Disorders personnel:

- A. Lloyd Lamb, Ph.D., Professor, Audiology (10 per cent).
- B. Judy Williams, M.A., Clinical Supervisor, Speech Pathology (100 per cent).

D. Secretary-Bookkeeper (approximately $\frac{1}{2}$ time).

111. Appointments to Staff

1. Carol Westby, Ph.D., was appointed Adjunct Assistant Professor, Speech Pathology, effective September, 1977. Dr. Westby, who serves as Language Specialist for the Programs for Children Developmental Disabilities Team, supervises clinical practicum for our graduate students working in that setting and this year taught two courses for our department. These courses were Communicative Disorders 450: Neuroanatomy and Neuropathologies and Communicative Disorders 551: Problems (Cognitive Development). She also is working with us to develop a diagnostic playroom at our new facility and is assisting in development of an early language intervention program.
2. Phyllis Fletcher, M.A., has been moved from part time instructor to Lecturer III (full/time) to become effective July 1, 1978. Mrs. Fletcher will continue to teach our courses in manual communication and will work on several other projects including our early language intervention program and a practicum program for interpreters for the deaf in conjunction with the Albuquerque Public Schools.
3. Jan Loeppky, M.S. joined our faculty on a two-thirds basis effective August 15, 1977 and is being increased to full time as of July 1, 1978. Mrs. Loeppky is Clinical Supervisor in Audiology (Aural Rehabilitation) and will assist in developing our early language intervention program for hearing

Impaired children. Mrs. Loeppky is being paid from our Bureau of Education for the Handicapped Training Grant.

4. Curtis Weiss, Ph.D., joined the faculty on June 1, 1978, as Associate Professor, Speech Pathology. Dr. Weiss will serve as coordinator of the academic and clinical programs in speech and language.
5. Linda Riensche, Ph.D., is scheduled to join the faculty in August, 1978, as Assistant Professor, Speech Science. Dr. Riensche will be primarily responsible for the basic science aspect of the program.

IV. Separations from Staff

1. John Lybolt, Ph.D., Assistant Professor, Speech Pathology, resigned effective December 31, 1977, to accept a position at the new Boys Town Center for Communication Disorders in Omaha, Nebraska.
2. Fred Chreist, Ph.D., Professor, Speech Pathology, retired from the University, effective May 31, 1978.

V. Plans for 1978-79

During the coming year we will continue working to improve all existing programs in the department. In addition, we plan to introduce new programs or give new emphasis to certain activities. Among our plans for 1978-79 are the following:

- A. We will introduce a course for parent-teacher aides who work with Albuquerque Public Schools. This course will be taught under Communicative Disorders 220: Workshop in Communicative Disorders.

- B. We will continue working toward an on-going continuing education program for practicing professionals by offering more courses in the late afternoon or evenings and by teaching a special course under Communicative Disorders 420:
Workshop in Communicative Disorders.
- C. We will work toward on-going research programs in basic science and clinical areas, emphasizing collaborative efforts with the Indian Health Service (see I, H above).
- D. We plan to apply for a federal grant to support our early identification - early language intervention program. In the mean time, we will continue development of this program using existing resources and focusing on populations at BCMC, Programs for Children and the Los Lunas State Hospital and Training Center.
- E. We will continue seeking input from outside sources, such as Albuquerque Public Schools personnel, to determine areas of weakness in our students and/or ways in which we might better prepare our students for various employment situations.
- F. Because of the large turn over in faculty this year, we will initiate another complete curriculum review.

V1. Composite of Information Requested on Individual Biographical Supplements

A. Mary L. Bolton

6. (a) Regional Editor-New Mexico Speech and Hearing Association.
- (b) Membership Chairmen-Albuquerque Speech and Audiology Professionals.
- (c) Attended Spring and Fall conventions of New Mexico Speech and Hearing Association.
- (d) Attended American Speech and Hearing Association Convention Fall-1977.
7. Speech and Hearing Testing within Navajo Boarding Schools and Socorro Public Schools.
8. (a) Hospitality Committee-Albuquerque Speech and Audiology Professionals.
- (b) Academic Advisor within Department.
- (c) Faculty advisor to UNM Chapter of National Student Speech and Hearing Association.

B. Dolores Butt

1. Diagnostician's Certificate State Department of Education of NM.
7. Consultant to:
 - (a) Program for the Physically Impaired, APS.
 - (b) NMSU State Standards Project.
 - (c) Bureau of Indian Affairs.
 - (d) Indian Health Service-Mental Health Branch.
 - (e) Therapeutic Preschool.
8. (a) Director Elks Cerebral Palsy Program in Communicative Disorders.
- (b) Arts & Sciences Promotion Committee.

C. Richard B. Hood

2. UNM Educator of the Month, November, 1977, by Las Campanas Junior Honorary Society.
6. (a) Appointed to American Speech and Hearing Association's Committee on Aural Rehabilitation, January, 1977 for 3 year term.
(b) Attended meeting of Academic Rehabilitative Audiology, July 5-8.
(c) Attended Convention of American Speech and Hearing Association, November 2-5.
7. Invited ASUNM Speaker, April 5.
8. Member, Arts & Sciences Graduate Committee beginning Fall 1977.
9. Coordinated and supervised 117 complimentary hearing tests to local residents, May.

D. Lloyd Lamb

4. Acoustic Impedance in Screening for Hearing Loss and Ear Disease, Published by Teledyne Acoustics, Charlottesville, Virginia, October, 1977.
6. Attended Convention of American Speech and Hearing Association, Chicago, November 1977.
7. Member, ASHA Committee on Supportive Personnel.
8. Member, Research Allocations Committee (1976-77).
9. (a) Member, Board of Directors, Albuquerque Light Opera Association (ACLOA).
(b) Coordinator, Grants and Seminars, ACLOA.

THE REPORT OF THE DEPARTMENT OF ECONOMICS
July 1, 1977 - June 30, 1978
Gerald J. Boyle, Chairman

I. General Departmental Information.

The Department of Economics provides an increasing number of offerings at the undergraduate level and has maintained the number of undergraduate majors at about 70 over the past five years. The introductory courses continue to be taught by senior faculty who have some ability to teach large classes: in addition, laboratory sections of about 25-30 each are taught by teaching assistants who work under the direct supervision of the lecturer. This arrangement seems to be the best solution to the difficult problem of sparking some interest among undergraduates.

The graduate program continues to flourish although enrollment is down somewhat this year for reasons discussed previously. To summarize, the University provides little support in the form of student financial aid and so the program is mainly supported out of sponsored research which tends to ebb and flow. While this problem has been discussed and rediscussed to the point where more would be painful, it remains as a problem to be solved.

Beginning the Fall, 1978, the department will offer an M.A. program that may be completed with evening courses.

- 2 -

Since announcement of this program (a mailing to major government agencies and private employers in the state as well as newspaper publicity), there have been about 25 inquiries with 6 or 8 applications to the graduate school. It is an important part of our mission to provide additional training to employed adults who will benefit and courses will be offered in the evening that allow candidates to complete the course requirements over a three year period. The particular sequence of course offerings will depend on the response to the program and needs of the students. We estimate an enrollment of 12 to 15 in this program. There is no requirement for additional resources since regular graduate course will be scheduled in the evening.

There will be significant changes in faculty next year. Professor Allen Kneese resigned to return to Resources for the Future. He will maintain his relationship with the Department as Adjunct Professor and also as an active participant in ongoing research. He will be replaced by Dr. Roger Norton who is presently employed by the World Bank. Dr. Norton's specialty is natural resource modelling for under-developed countries. He will bring this new specialty to the Department in January, 1979 and also add to our strength in the theoretical side of natural resource economics. In addition, Dr. Stuart Burness will join the

faculty in the fall, 1978 as a specialist in mineral economics. He too will fit into the ongoing program and offer one or two new courses in his speciality. These additions bring to four the number of full time faculty specializing in natural resource economics and will offer a solid specialty with some depth to our graduate students.

Members of the Department continue their research productivity -- while difficult to summarize, the following gives some indication of this activity. There have been several dozen articles and reports published during 1977: these are concentrated in the natural resource area but also include a half dozen papers in public finance as well as a book on the taxation of multinationals. The amount of sponsored research remained at a high level with six projects in natural resources and two in public finance. Finally, department members continue to be involved in local affairs through appearances on TV and presentations and discussions at local meetings.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name SHAUL BEN-DAVID Rank (or title) Professor of Resource Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

See Attached Sheet

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

See Attached Sheet

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

See Attached Sheet

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

1. Director of Resource Economics Research Program

2. Chairman of UNM Computer Use Committee.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

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4. Publications:

"The Economics of Solar Energy: New Term Prospects", invited paper for *Natural Resource Journal*, April, 1977. (With S. Noll, M. Thayer, R. Katson and W. Schulze).

"The Economics of Solar Home Heating", invited paper for The Joint Economic Committee of the U. S. Congress, GPO, GPO, March, 1977. (with W. Schulze, J. D. Balcomb, et al).

"The Transition to Alternative Energy Sources", Proceedings of the American Society of Mechanical Engineers, Symposium on the "Impact of Energy Development in the Southwest", March, 1977. (with W. D. Schulze, R. G. Cummings).

Regional Water Management with Full Consumptive Use, New Mexico Water Resources Research Institute, WRRI Report No. 088, July, 1977. (with R. Lansford, F. Roach, B. Creel, B. Beattie).

"An Inquiry Regarding Surogate Measures for Social Benefits Attributable to Urban Structure in Boomtowns", Report to LASL, June, 1977. (with R. Cummings et. al).

"The Economics of Geothermal Energy: A Case Study", Second Year Report to the National Science Foundation, Project #APR75-18249. (with S. Noll, M. Thayer, and W. Schulze).

"Prospects for Solar Energy: The Impact of the National Energy Plan", Los Alamos Scientific Laboratory Report, LA-7064-MS, December, 1977. (with F. Roach, S. Noll, L. Bickle, W. Schulze).

"Impact of the National Energy Plan on Solar Economics", Proceedings of the Miami International Conference on Alternative Energy Sources, Clean Air Energy Institute, Miami, Florida, December, 1977, Edited by T. N. Veziroglu. (with J. F. Roach, S. Noll, W. Schulze).

5. Research Projects in Process or Completed:

1974 - 1977: Principal Investigator, NSF-RANN, "Collaborative Research on Assessment of Man's Activities in the Lake Powell Region", (Economics Subproject).

1975 - 1977: Principal Investigator, NSF-RANN, "An Economic and Environmental Evaluation of Solar and Geothermal Energy Sources".

1976 - 1979: Senior Investigator, USEPA, "Methods Development for Assessing Tradeoffs in Environmental Management"

1977 - 1978: Principal Investigator, LASL, "Analysis of Passive Solar Systems".

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19 77 TO DECEMBER 31, 19 77

Name Gerald J. Boyle Rank (or title) Professor
 1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

None

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

None

3. New scholastic honors, fellowships, etc.

None

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

See attached

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

Grant of \$42,000 from NM Highway Department to study revenue estimating and highways for energy development, completed June 30, 1977. Grant of \$6,500 from NM Bureau of Revenue to complete revision of low-income tax credit through academic year 1977/78. Grant of \$14,000 from NM Legislature to complete study of natural gas in New Mexico during academic year 1977/78

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

None

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

Consultant to U.S. Department of Interior, Bureau of Indian Affairs on "Economic Impact of Relocating Navajo Families from Joint Use Area to House Rock Valley - Paria Plateau Area".

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

None

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

None

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

None

(Use additional sheet if more space is needed)

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4. "A Proposed Three Factor Formula for State Aid to Municipalities", National Conference on Nonmetropolitan Community Services Research, U.S. Senate Committee on Agriculture, July 12, 1977; pp. 113-124.

"Financial Structure of New Mexico", in F. Garcia and P. Hain, New Mexico Government, UNM Press, 1977; pp. 71-88.

"Taxation of Uranium and Steam Coal in the Western States", Non Renewable Resource Taxation in the Western States, Lincoln Institute on Land Policy, 1977; pp. 1-32.

Report to the N.M. Highway Department: Short Run Revenue Estimating Model and Financing Highway Improvement in the Northwest Energy Quadrant, August, 1977; 142 pages.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977Name Pham Chung Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

1. "High-Priority Goods as Inferior Goods in a Communist Economy", Soviet Studies, 28, October 1976. 2. "Notes on a Three-Mode Control Economic Model", Kajian Ekonomi, 12, June 1975. 3. "Clarence E. Ayres and the Socialist Planning Debate", Journal of Economic Issue (forth, Fall 1977). "On the Behavior of a Totalitarian Regime Toward Dissidents: an Economic Analysis", Public Choice, (forth, Fall 1977).

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

Papers completed: 1. A Theorem on the Constancy of Factor Shares and the Cobb-Douglas Production Function. 2. On Technical Progress, the Production Function, and Economic Growth.

Papers in Progress: The Malthusian Macro-model and some Modern Economic Policy Thoughts; On Neo-classicism and Institutionalism; Some Notes on Sociobiology and Institutional Economics.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

Papers read: "Clarence E. Ayres and the Socialist Planning Debate", MNEA Conference, Saint Louis, Missouri, April 24-26, 1977.
February

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Chairman, MA and Ph.D. macro committees.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

**ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976**

Name Pham Chung Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

1. "On Complaints about High Taxes: an Analytical Note", Public Finance, Vol. XXXI, No. 1, 1976. 2. "Clarence E. Ayres on the Market System", Journal of Economic Issue, Sept. 1976.

3. "The New Mexico Electrical Energy Tax Act of 1975: an Economic Interpretation", N.M. Business, April 1976. 4. "On Sovereign Immunity: an Economic Analysis", N.M. Business, June 1976. 5. "High-Priority Goods as Inferior Goods in a Communist Economy", Soviet

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

Studies (forth.). 6. "Notes on a Three-Mode Control Economic Model", Kajian Ekonomi (forth.)

Papers Completed: 1. "Cobb-Douglas or Constant Elasticity of Derived Demand Production Function". 2. "A Catastrophe Model for the Production Function and Technical Progress".

3. "On the Welfare Implications of the New Mexico Electrical Energy Tax Act of 1975".

Papers in Progress: 1. Junior College and Non-Convexity in the 'Educational Production' Set". 2. "Clarence E. Ayres and the Socialist Planning Debate". 3. "On Neo-Classicism

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

and Institutionalism".

Papers Read: "The Determination of the Optimal Level of Expenditure on Antitrust Legal Defense", Annual Meeting, Southwestern Social Sciences Association, Dallas, April, 1976. Discussant of a couple of papers at the Annual Meeting of the Western Economic

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

Association, San Francisco, June 1976.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19⁷⁷ TO DECEMBER 31, 19⁷⁷

Name Albert M. Church Rank (or title) Associate Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period
Sabbatical--1976-77

3. New scholastic honors, fellowships, etc.

Post doctoral Fellow and Associate faculty member at the Lincoln Institute of Land Policy (LILP).

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

Editor of Conference Proceedings, Non-Renewable Resource Taxation in the Western States, Tucson, Arizona, Jan. 31-Feb. 1, 1977. And contributed paper "Market and Non-Market Evaluation of the Mining Firm" (April, 1977). "Optimal Taxation of Natural Resources by the State of New Mexico", New Mexico Energy Institute BEF-93, Sept., 1977 (with Roger N. Folsom).

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

Revised and condensed report on 1975-76 research grant from EPA, The Effect of Local Government Policy Tools on Land Use and Environmental Quality--A Case Study of Albuquerque, New Mexico, for publication by EPA. NSF-RANN research grant (\$125,000) "The Economic Effects of Nominal and Effective State and Federal Tax Structures on the Exploitation of Non-Renewable Resources." Approximately one-half of first draft of a book on the taxation of Non-Renewable Resources completed--to be published by (LILP).

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

Proposed, secured funding, and organized conference on state taxation of non-renewable resources in Tucson, January 31 and February 3, funded by LILP.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

Hosted two-part TV program "Inside New Mexico--Home Tax Assessments, Parts I and II" for KNME-TV, Fall, 1977. Continuing reviewer for The National Tax Journal.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Committee member of Arts and Sciences "Interdisciplinary Social Science Course".

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977Name SANFORD COHEN Rank (or title) PROFESSOR

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

SABBATICAL LV. SPRING 1977

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

BOOKS: ISSUES IN LABOR POLICY. COLUMAN, CHARLES
E. MERRILL PUBLISHING CO., 1977. (EDITOR)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

RESEARCH ON PUBLIC EMPLOYEE UNIONISM SEVERAL PAPERS
UNDER REVIEW PREPARING NEW EDITION OF LABOR
IN THE UNITED STATES. BOOK REVIEWS

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

ATTENDED FEDERAL MEDIATION AND CONCILIATION SERVICE
CONFERENCE ON ARBITRATION, FEB. 27, LOS ANGELES.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

ARBITRATION OF LABOR-MGT. DISPUTES IN NEW MEXICO,
ARIZONA, TEXAS, MISSOURI,
GENUINE ACTIVITIES - VARIOUS

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

FOR FACULTY COMMITTEE FOR AMERICAN STUDIES

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name Ronald C. Cummings Rank (or title) Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.) American Journal Ag.E.
"Defining Upper Limits to Groundwater Development in the Arid West." forthcoming Dec., 197
"Optimal Investment Strategies for Boomtowns: A Theoretical Analysis" k " Amer. Econ. Rev
"An Economic Analysis of the HDR Geothermal Energy Resource, under Review with 6/7
Journal of Natural Resource and Energy Economics.
(Continued on sep. paper)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
"A Time Series Profile of Urban Infrastructure Stocks in Selected Boomtowns in the
Rocky Mountain States," (with Arthr F. Mehr), Los Alamos Scientific Lab. LA-6687-MS,
April, 1977, Funded by LASL, \$25,000.
"Wage-Infrastructure Trade-Offs in Boomtowns: Implications for Investment Planning",
(with W. Schulze, et.al.), Los Alamos Scientific Laboratory August, 1977. Funded
by LASL, \$60,000. (Continued on sep. sheet)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
A- Member, Editorial Board, Land Economics.
B- "The Transition to Alternative Energy Sources" (with W. Schulze and S. Ben-David),
Proceedings, of the American Society of Mechanical Engineers, Alb., March 18, 1977.
(Continued on Separate sheet)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)
Participant in LASL sponsored workshop on "Entropy and Economics," Houston, Texas
October 30, 1977.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
Ph.D. committees: 4, Major Professor for 2.
MA committee: 4, major Professor for 2.
(continued on Separate sheet)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

4. "Ramsey, Resources and the Conservation of Mass-Energy" (with W. Schulze), under review with Review of Economics and Statistics.
 "Optimal Investments in Boomtowns: An Empirical Analysis," (with W. Schulze), under review with Journal of Environmental Economics and Management.
5. "Electricity From Hot Dry Rock Geothermal Reservoirs: An Economic Analysis," (with D. Franklin and S. Nunn), Interim Report to the Electric Power Research Institute, August, 1977; funded by LASL (\$25,000) and EPRI (\$70,000).
6. C- "Long-term Alternatives Between Production Rate and Supply of Oil and Gas" (with J. McFarland, T. Springer and E. Monash), Proceedings, Pacific Area Chemical Engineering Conference, Denver, August 29-30, 1977.
- D- "Groundwater Management: A Methodological Overview," Proceedings, Eleventh Biennial Conference on Groundwater, Fresno, California, September 1977 (Water Resources Center, University of California, Davis).
- E- "Does Conservation of Mass-Energy Matter for Economic Growth?" (with W. Schulze), Proceedings, of the Conference on Natural Resource Prices, Trail Lake, Wyoming, August 15-17, 1977 (Department of Economics, University of Wyoming, Laramie).
- F- "Optimal Design of Geothermal Systems," Proceedings, of the Southwest Region Under Stress Conference, Albuquerque, Nov. 4 & 5, 1977.
- G- "Boomtown Economics" (with W. Schulze) Proceedings, of the Southwest Region Under Stress Conference, Albuquerque, Nov. 4 & 5, 1977.
8. . Member, Organization Committee for the Village Technology Center, School of Engineering.
- . Member, Search Committee, Latin American Center.
- . Chairman, Economic Department Recruitment Committee.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name James L. Dement Rank (or title) Assistant Professor
1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name Peter Gregory Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period
Sabbatical leave - fall semester, 1977

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
Book review of Small-Scale Employment and Production in Developing Countries
The Journal of Developing Areas, forthcoming.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
Updating and revision of earlier research on wages and employment in developing countries for publication.
The Chilean labor market before, during, and after the Allende government; first draft of article prepared for publication.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)
Consultant to The World Bank on wage and employment problems in developing countries.
Member of an economic mission to Chile sponsored by The World Bank
Manuscript referee for Journal of Developing Areas and Industrial and Labor Relations Review.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
Performer in UNM Faculty show, spring 1977.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)
Member, Board of Directors, Albuquerque Opera Theater
Member and Secretary, Board of Directors, Sandia Heights Homeowners Association

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name Allen V. Kneese Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Spent one week in Vienna, Austria at the Institute for Applied Systems

Analysis (IIASA)

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

Please see attached.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

The Southwest Region Under Stress Project is still in progress and results are being compiled. Continued work is being done on the Southwest Policy Project (NSF sponsored) and EPA Project which is being done jointly with the University of Wyoming. A grant received from the National Science Foundation in the amount of \$49,941 titled "The Ethical and Value Foundation of Benefit Cost Analysis, Sept. 1, 1977 - Dec. 31, 1978.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

Chairman of a session (Evaluation of Environmental Damage) at the ASSA - AEA/AERE meeting in New York, December, 1977. Paper prepared with Professor Lee Brown for presentation at the ASSA - AEA meeting (as above).

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

I have continued to act as a consultant to federal government agencies, state officials, the National Academy of Sciences. I am presently Chairman of the Board on Mineral and Energy Resources (NAS/NRC Commission on Natural Resources).

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Member of Research Policy Committee (UNM)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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Publications: Allen V. Kneese

"Environment, Health, and Economics--The Case of Cancer," American Economic Review, February 1977, pp. 326-332.

Co-author: William D. Schulze

"Benefit-Cost Analysis and the Atom" Economics in Institutional Perspective - Essays in Honor of Professor K. William Kapp, Rolf Steppacher, et al. ed., D. C. Heath and Company, 1977.

"The Sustainable Economy" Frontiers in Social Thought Essays in Honor of Kenneth E. Boulding, Martin Pfaff, ed. North-Holland Publishing Company, 1976.

Co-author: Robert U. Ayres

"Pollution, Prices and Public Policy" Policy Studies Review Annual, Volume 1, Stuart S. Nagel, ed. Sage Publications, 1977.

Co-author: Charles L. Schultze

"A Context for Choosing Implementation Incentives for Environmental Policy" Environmental Comment, The Urban Law Institute, Washington, D.C. 1977.

Co-authors: Blair Bower and Charles Ehler

"Incentive for Managing the Environment" Environmental Science and Technology, March 1977, pp. 250-254.

Co-authors: Blair Bower and Charles Ehler

"Quantitative Comparisons of Policy Instruments for Environmental Improvement" Decision Making in the Environmental Protection Agency, Vol. IIB, National Academy of Science, Washington, D.C. 1977.

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name David Hamilton Rank (or title) Prof. or

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
Review article of Science and Technology, Journal of Economic Issues, Sept. 1977
Review of David Jackler, Thorstein Veblen and the Institutionalists, Journal of Economic Issues, December 1976
"Interdependence in Economics" in Interdependence: An Interdisciplinary Study, edited by Archie Balm, 1977

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
"Institutionalism: Present Status and Future Prospects" in symposium entitled Institutional Economics: The quest for Relevance in the Economic Sciences, edited by Louis Alvin and to appear in The Social Science Journal

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
Read paper in session of Southwestern Social Science Association in Dallas, May 1977

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
Member Faculty Senate (Executive Committee spring 1977 and Chairman of Faculty Budget Review Committee)
Member UNM Press Board Fall 1977

9. Public service (church activities, Community Chest, Boy Scouts, etc.)
Member of N. M. State Labor and Industrial Commission
Member of City of Albuquerque Ethics and Campaign Practices Board
Member of Consumer's Union, Educational Advisory Board.

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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Popular Articles on Economics done for New Mexico independent:

Dick Knipfing really ought to include stock market and weather	1/7/77
Right to work law rears ugly head once again S.F.	2/11/77
Federal Regulatory agencies in for new wave of attack in 77	3/25/77
States are pawns in economics game of interstate industries	4/15/77
The people lose when they don't fund the University adequately	5/13/77
The way Carter manages economy reveals his unconcern for poor	9/9/77
"Left/Right" definitions defy all logic in rush to classify	10/7/77
A Ph.D. in geology does not make an economist of Jack Schmitt	11/11/77
Athletics in subsidized just like any other industry in the US	11/18/77
Social Security is not a private fund but a valid social cost	11/25/77
Where does business get the idea that Arthur Burns is good news?	12/30/77

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name MICHA GISSER Rank (or title) PROFESSOR

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

ECONOMICS

Gisser

1. Reduction of Water Allocations to Irrigated Agriculture in the Estancia Basin with Implications for New Mexico: Impacts and Technological Change. Resource Economics Group, Department of Economics, University of New Mexico, Co-Author Ronald Cummings.
2. Geothermal Application Feasibility Study for the New Mexico Institute of Mining and Technology Campus. Co-Authors, S. Karni, P. Dorato, R. Passamaneck, A. R. Miller, K. W. Ford and V. G. LeFebvre.
3. Water Trade-off Between Electric Energy and Agriculture in the Four Corners Area. A study funded by the Los Alamos Scientific Laboratories, PO#Np7-79295-1. Co-authors R. R. Lansford, W. D. Gorman, B. T. Greel and M. Evans.
4. Water Shortage in Israel: Long Run Policy for the Farm Sector, Water Resources Research, December, 1977.

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

Please type or print.

Date June 22, 1977

Marital status Married Wife's maiden name Nissley No. of children 0
(e.g. single, married, widowed) or husband's full name

[illegible]

Thesis title: Master's _____

Doctor's "An Evaluation of Alternative Forms of Competitive Bidding; a case study of U.S. Forest Service Timber Sales."

Professional certification (give dates and places from which obtained) _____

Scholastic honors, fellowships, etc.

Resources for the future, Dissertation Fellowship, 1976-77.

Foreign languages: reading knowledge Spanish
speaking knowledge Spanish

III. MILITARY SERVICE (give details of rank, dates, places, type of service, present status)

U.S. Navy reserve, April 1965-April 1967 - Honorable Discharge

(Attach additional sheets if more space is needed)

IV. PREVIOUS EMPLOYMENT (Please give a complete chronological listing of all teaching and other pertinent employment; include name and location of institution or other employer, academic rank or other title, salary and inclusive dates of each appointment, and (if teaching) subjects taught).

1976 - present -- Consultant, Kitsap County School District - Salary varies.
1974-76 -- Research Assistant to Gardner M. Brown, Jr., University
of Washington - Salary \$500/month.
1973-74 -- Teaching Assistant, University of Washington -
Principles of Economics - salary \$450/month.

(Attach additional sheets if more space is needed)

NOTE: This is carbon-treated stock; carbon paper not needed. Use typewriter.

AM-11/24/76

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name JONAS, Paul Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

NONE

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

NONE

3. New scholastic honors, fellowships, etc.

Taxation of Multinationals in Communist Countries (New York: Praeger, 1977)

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

" Home Thoughts From Abroad," HARPER'S , April, 1977. pp. 20-21;

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

"Economic Aspects" in The Hungarian Revolution in Retrospect, edited by Bela Kiraly and Paul Jonas. To be published Columbia University Press: New York, March 1978;
Bookreview: Indian Economic Development (Zeller) in American Historical Review
forthcoming January 1978.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

Professional papers: " Trade Prospects for Developing Countries," a paper presented
Eastern Economic Association, March 1977; "Exiles and Immigrants," Rice University, Nov. 1977.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

NONE

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

MACRO COMMITTEE; Chairman, MA Committee (Basabrain); member Ph.D. Committee (Ngola)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

NONE

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

NONE

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UNIVERSITY SECRETARY'S COPY

NOTE: This is carbon-treated stock; carbon paper not needed. Use typewriter.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name GARY D. LIBECAP Rank (or title) ASSISTANT PROFESSOR

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

ASSOCIATE IN THE COLUMBIA UNIVERSITY SEMINARS IN ECONOMIC HISTORY AND LEGAL AND ECONOMIC CHANGE

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

THE EVOLUTION OF PRIVATE MINERAL RIGHTS (NEW YORK: ARND/NEW YORK TIMES, FORTHCOMING)
"ECONOMIC VARIABLES AND THE DEVELOPMENT OF THE LAW," JOURNAL OF ECONOMIC HISTORY, FORTHCOMING
"THE USE OF GOVERNMENT IN SUPPORT OF PRIVATE CLAIM TO PUBLIC MINERALS" BUSINESS HISTORY REVIEW, FORTHCOMING

"THE EVOLUTION OF PRIVATE MINERAL RIGHTS" BUSINESS AND ECONOMIC HISTORY, 19

5. Other research projects or creative work in progress or completed during period (If outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

DISSAPATION OF RENTS, TRANSACTIONS COSTS AND PROPERTY RIGHTS -
THE EFFECTS OF FEDERAL LANDER POLICY IN THE LATE 19TH + EARLY 20TH
CENTURIES.
COST-BENEFIT STUDY OF TELECONFERENCING IN ADMINISTRATIVE HEARINGS.
NEF APR - 11/15/16

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

"ECONOMIC VARIABLES AND THE DEVELOPMENT OF THE LAW" 1979 CLIMETRICS MEETINGS
"LEGAL CHANGE AND ECONOMIC ACTIVITY" 1977 PUBLIC CHOICE SOCIETY MEETING

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

FACULTY SPONSOR FOR PRESIDENTIAL SCHOLARS
FACULTY SPONSOR FOR ECONOMICS HONOR SOCIETY OMIKRON DELTA
EPSILON

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

CHILD - MARCH 3/37 - SARAH

(Use additional sheet if more space is needed)

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name Alfred L. Parker Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

On Sabbatical--Spring semester 1976-77 and Fall semester 1977-78

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

"The Application of a Composite Computer Mapping System to Environmental Impact Analysis and Recreational Land Management in Northwestern New Mexico," with Gosz, Vogel and Turner, in Kitchings J.T., and N.E. Tarr (editors), National Environmental Park Symposium: National Resource Inventory, Characterization and Analyses, ORNL-5304, Oak Ridge Tennessee, forthcoming. (#4 continued on separate sheet)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

"The Economic Consequences of Industrial and Residential Development As They Affect Water Quality in the Southwest" Year One Report. Research sponsored by the U.S. Forest Service. 2 years (\$15,000). (#5 continued on separate sheet).

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

"The Economic Impact of Energy Development in the Southwest," 17th Annual ASME Symposium, March 17 and 18, 1977. Albuquerque, N.M. (#6 continued on separate sheet)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

Consultant to Jicarilla Apache Tribe (oil and gas leases, taxes, royalties and related legal action).

Consultant to Resources for the Future on a project entitled "A RFF Forum on the Impact on Western Water, Fish and Wildlife of Energy Development. (#7 continued on separate sheet)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

Annual Supplement to Biographical Record (Continued)

Alfred L. Parker Professor of Economics

4. "The Economic Impact of Energy Development in the Southwest", Impact of Energy Development in the Southwest, 17th Annual ASME Symposium, March 17 and 18, 1977.

"An evaluation of the New Mexico Public Utility Rates Indexing Experiment", in Sichel (Editor) After the Crisis: A Current Evaluation of the Performance of Public Utility Regulation, forthcoming.

5. "The Fish and Wildlife Impact of Energy Development in the Four Corners Region", Year One Report. Research sponsored by the U.S. Fish and Wildlife Service, 3 years (\$199,994).

(In Progress) Co-editor with Allen Kneese and Walter Spofford, collection of papers concerned with the impact of energy development on Western waters, fish and wildlife Manuscript to be considered by RfF for publication.

(In Progress) "Potential Impacts of Energy Development on Land Use and Recreation in the Upper Colorado River Basin," to be included in RfF manuscript described above.

6. "An Evaluation of the New Mexico Public Utility Rates Indexing Experiment", Seventh Michigan Conference on Public Utility Economics, Wayne State University, Detroit Michigan, April 28-30, 1977.

"The Southwest Region Under Stress Project and Its Applicability For Oregon," Challenges for Oregon 1977-79, An Institute For Policy Studies Statewide Conference, The Inn at Otter Crest, Otter Rock, Oregon, September 29, 30 and October 1, 1977.

7. Consultant to Mountain Bell Telephone on "Long Run Incremental Cost Pricing" and related regulatory matters.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name DONALD G. TAILBY Rank (or title) Assoc. Prof.
1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

Consultant, Linale Lumber Co., 2 days, Oct. 1977

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Asst. to Chmn., Econ. Dept.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

Pres., N. M. Horticult. Club, 1977

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

THE REPORT OF THE DEPARTMENT OF ENGLISH

JULY 1, 1977 - JUNE 30, 1978

Joseph B. Zavadil, Chairman

1. General Information

- A. By some ancient calendar for academics 1977-78 must have been the year of the Screwdriver. During the past two semesters we have been little involved with new construction. On the contrary, for the most part we have tinkered with established programs, adjusting and tightening -- mainly tightening. Certainly we tightened the Freshman English Program with increased training and supervision of teachers and with development and enforcement of the panel-graded final exam system for English 101. In the Graduate Program we tightened the language requirement for the Ph.D. and some policies for comprehensive examinations. And perhaps throughout the curriculum in day-to-day classroom work we tightened something too, because as the college was quick to note, the grades we gave dropped considerably. By tightening, of course, we found ourselves very much in harmony with conservative emphases throughout the university. For, as we all know, the sabbatical leave policy was tightened during 1977-78; the policy on faculty teaching loads was tightened; and the budget was tightened -- especially the one recorded in our personal checkbooks, where over the year we will surely watch inflation smother the terms of our new contracts. In the last twelve months pressure has certainly been applied to the screws.

Individually, members of the department were typically active during the year, as later parts of this report will demonstrate. Some achieved particularly notable distinction. Rudy Anaya was awarded a fellowship for 1978-79 by the National Chicano Council of Higher Education. Morris Savas was published in FMLA. Bob Fleming had both his bibliography of Johnson and Bontemps and the Twayne Motley book appear. Cheryl Fresch received an A & S grant and Peter White an NEH grant for research this summer. Gene Frumkin co-edited one anthology of regional writing and Jane Kopp another. Ham Hill was selected to direct an NEH seminar for college teachers during 1978-79 (following up the 1977 summer seminar funded by NEH); and the Blair-Hill history of American humor was published late in the spring. Leslie Silko received an NEH grant covering the current calendar year for the Laguna Pueblo Film Project. And Hugh Witemeyer had a book accepted by Princeton in record short time.

Several important changes in faculty status or personnel were also recorded during the year. Bill Dowling, Mike Fischer, and Leslie Silko successfully met the demanding professional criteria and were renewed for second three-year-term appointments, which are probationary. Robert Crealey taught as Visiting Professor in the spring semester. Hugh Witemeyer was designated Director of Graduate studies in the department for next year. When Lynn Bloom resigned to accept another position, Mike Hogan was both promoted in

rank and appointed to replace her as Director of Freshman English. We received two new full-time (though temporary) positions to bolster teaching in the Freshman Program next year. And after another long effort at recruiting for the senior Renaissance position, our bad luck of last year finally changed, and we will have Richard Fly in 1978-79 on a visiting basis that we think will change to permanent thereafter. Maybe it wasn't the year of the Screwdriver.

1. Freshman English Program

Directors: Michael Hogan (Fall), Lynn Bloom (Spring)

Assistant Director: Zane Taichert

Freshman English Committee: Rose Anstine (replaced by Meredith Machen), Ed Mahoney, Antonio Marquez, Peter Page

Enrollments remained high in the three freshman English courses during the 1977-78 year. This, coupled with the many TAs who completed their course of study the previous year or who left UNM at that time for other reasons, made staffing a particular worry. Fortunately, we had five or six full-time members of the department each semester teaching freshman courses, and were able to find twelve to fifteen people living in the community who served very capably as temporary lecturers. Because we had many first-year teachers and many teachers new to our freshman program, much of the year's effort was given to training--visiting classes, monitoring grading, and discussing teaching strategies. Perhaps the effectiveness of the measures to train and supervise our teachers is most clearly evidenced in the rigor and consistency now evident in the grades given in freshman classes. Our commitment to this training will if anything be stronger next year: next fall all teachers new to the freshman program at UNM (rather than only those without classroom experience) will be required to take English 537, Studies in Composition for Teachers, which will be taught by Peter Page. Also, we have, with the cooperation of the Graduate Director, made uniform the requirement that candidates for an Assistantship submit a sample of their writing.

We continued to study and amend the curricula in freshman courses. The use of a workbook (instead of a programmed text) in English 100 proved moderately successful, though the particular workbook had weaknesses, and another, The Harbrace College Workbook, has been selected by the Freshman English Committee for use next year. In English 101 the commitment to teaching writing by using an anthology of readings on language continued. Options for topics for the research paper required of all 101 students were increased last year, and this proved a successful step. Last year also saw the introduction of panel grading of all 101 final examinations, with the panel evaluating final essays as either "pass" or "fail," and with the requirement that a 101 student pass in order to receive a grade of C or higher in the course. Several uncertainties and rough spots that cropped up in the panel-grading procedures during the first semester were eliminated by amendments made for the second: all papers had two readings to pass, and 101 teachers were invited to appeal to the Director the need to give a D or F to a student who failed the final but entered the final with at least a B average. The Freshman English Committee selected a new text for 102 next year, Interpreting Literature. This anthology, the

committee thought, has a comprehensive sampling of literary types (including some expository essays) and offers thematic groupings of material, and arrangement that 102 teachers have found effective in the past two years.

Two research projects were conducted during the Spring semester. "Identifying and Reducing Writing Anxiety," directed by Prof. Bloom and funded by the Greater UNM Fund, sought to determine the extent to which writing anxiety (fear of failure, procrastination, avoidance or tension due to ignorance of the topic or of how to write, inability to overcome distractions in the environment) exists in composition students. The project also tested methods and strategies teachers might use to alleviate such anxiety. The semester's data has been collected and is now being tabulated. Four teachers (of five sections) of 102, in another project, used a sampling of expository essays or informative writing as part of the required reading in their sections. This reading replaced some of the literature now regularly taught in 102, though the experimental sections continued the use of writing about literature in part. Student essays from points early and late in the semester have been collected and will be compared to essays from sections that used the standard 102 syllabus. We expect to have some results from this research available later in the summer.

Future tasks include: bringing greater logic to the staffing and training of freshman teachers; making both the CST Director and the Assistant Director continuing positions held by members of the full-time staff; settling the division in 102 between teaching compositional skills and introducing students to literary terms and theories; bringing increased communication and cooperation between the freshman program and the state's secondary schools (all high schools in New Mexico will receive a copy of the student's informational handbook, Freshman English at UNM, in September); establishing more continuity in the dealings of the freshman program with the on-site programs, continuing education, and the tutorial program. Dreams include instituting a writing workshop available to students in freshman courses and offering courses and programs of study on composition to the growing number of graduate students who want them.

2. Undergraduate Program

Advisers: Bill Dowling, Morris Eaves, Mike Fischer, Bob Fleming, Cheryl Freach, David Remley, Peter White

We tried to improve undergraduate advising during the spring. Each English major that we could identify received a letter from one of the undergraduate advisers extending an invitation to confer before registration for fall 1978 began. About 120 letters were mailed, but response was disappointing. Under present record and registration systems, apparently we will not be able to require students to talk with us until they apply for degree. Many of us think that students ought to be referred to departments for information about planned major programs before they are formally admitted to the college, and that such contact with some department ought to be a condition

for admission to the college. We want to keep in touch with our students and their progress both before and after they complete degrees, and indeed we are being encouraged to do so. At the moment we need help if we are to reach those who do not seek us out.

3. Creative Writing Program

Director: David Johnson (Fall), Gene Frumkin (Spring)
Creative Writing Committee: Rudy Anaya, Gene Frumkin, Rick Celum, Douglas Lowell

Creative Writing prizes for 1977-78 were awarded to three students. Wendy York won the Academy of American Poet Prize, with Michael Golston and Jon Hardman receiving honorable mention. Caryl McHarney won the Lena M. Todd Memorial Award for Fiction, and Michael Golston won the Todd Memorial Award for Poetry.

Since the New Mexico Writers Workshop was very successful during the summer 1977 another workshop was planned for 1978. This time the workshop included magazine writing (taught by Lois Arquette) as well as fiction (Rudy Anaya) and poetry (David Johnson). The workshop which extended from June 12 to June 30, was preceded by a weekend conference (June 9-11) that featured Richard Bradford, Robert Creeley, Tony Hillerman, and Frank Waters. Registration for both the conference and the workshop was extraordinarily high, so these summer offerings seem assured of a long future.

On April 14 and 15 the Coordinating Council of Literary Magazines, of which Rudy Anaya and Leslie Silko are members, held a regional conference for writers and editors here on campus. The conference included readings by several authors of national reputation and a panel concerned with problems in publishing that small presses and little magazines face. Departmental faculty were prominent in these public events.

4. Graduate Program

Director: David McPherson
Graduate Committee: Edith Buchanan, Mary Power (Fall), Ellen Spolsky (Spring), Linda Van Buskirk, Hugh Witemeyer

No radical changes were made in the graduate program during 1977-78. Such changes as there were may be conveniently divided into three categories: graduate examinations, recruitment, and language requirement.

A new policy was instituted regarding the reports on graduate examinations. Each committee which grades a graduate examination will prepare a joint report on the strengths and weaknesses of individual questions and of the examination paper as a whole. The student may be given a copy of this report upon request. It will be signed by the readers. Two new policies were adopted concerning the major field examination for the Ph.D. First, the areas in which the student is to be examined must be approved no later than the end of the previous semester by both the student's Committee on Studies and the Graduate Committee. Second, the major field examination will be drafted by the Committee on Studies and reviewed by the

Graduate Committee. Finally, two new policies concerning the minor field examinations for the Ph.D. were adopted. First, individual questions will be drafted and read by experts in the field, who will report a grade to the Graduate Committee. Second, questions will differ from M.A. examination questions by being narrower and asking for greater depth in the answers. The net effect of these changes is probably to concentrate more responsibility in the hands of the Graduate Committee. The committee believed that these changes would be desirable because they would help insure that uniform standards are applied to all degree candidates. The Policy and Personnel Committee approved all of these changes. The committee also devised as an experiment a set of objective questions which will be given students taking the M.A. examination in July, 1978. We want to know just how strong or how weak our students are in their factual knowledge.

The committee spent a great deal of time devising a poster to aid recruitment. Of the 75 applications, only two showed any awareness of the poster. This fact suggests that the poster is more trouble than it is worth. Another change in the area of recruitment was the fact that for the 1978-79 school year the committee admitted 16 of 30 applicants for the Ph.D. program, this despite our long-standing policy of admitting only eight new Ph.D. candidates per year. The reason for the increase is not that the committee anticipates the availability of more jobs for college English teachers; the reason is that six of the sixteen already have secure teaching jobs to which they plan to return or for some other reason they do not need financial assistance from this university. Since all 16 appeared to be qualified students, the committee saw no reason to deny them admission. One other important change was instituted in recruitment: henceforth all applicants must furnish scores on the Graduate Record Examination, both the Aptitude Test and the English field examination.

Finally, the committee proposed and the Policy Committee approved a more rigorous language requirement for Ph.D. candidates. Instead of being required to demonstrate a moderate competence in one language, the candidate will have to show either (1) a high level of competency in one language, or (2) a moderate level in two. The proposal as approved defines "high" and "moderate" and spells out the ways in which these levels must be demonstrated.

If there is any general trend to all these minor changes during 1977-78, it would seem to be in the direction of stiffening requirements somewhat.

5. The department sponsored a particularly rich series of lectures during the year:
 - a. On October 14, Colin Williamson, University Lecturer in English Literature at Oxford and Tutorial Fellow at Jesus College, lectured on "Three Faces of Elizabethan Love Poetry."
 - b. On October 18, Thomas Rogers, novelist and Professor of English at Pennsylvania State University, read from his own works with added commentary.

- c. On November 11, Helmut Garber, Professor of English at Arizona State and editor of *Literature in Transition*, delivered a paper entitled "A Brilliant but in Part Abortive Effort," which was concerned with British writing from 1880 to 1920. This was the annual exchange lecture with Arizona State.
 - d. On February 17, Professor Rowland Smith of Dalhousie University in Nova Scotia, lectured on "The English Literary Scene in The Early Years of World War II."
 - e. On February 24, Ian Fletcher, who is Reader in English at the University of Reading and distinguished specialist in British Literature at the turn of the twentieth century, delivered The Annual Carl Grabo Memorial Lecture. Professor Fletcher's subject was "Yeats' 'Leda and the Swan': Nineteenth-Century Visual and Literary Sources."
 - f. On March 24, Sean Hignett, British author and lecturer at the University of Edinburgh, talked about "The Current British Literary Scene."
 - g. On May 5, Mary de Rachewiltz, daughter of Ezra Pound as well as poet and translator in her own right, gave a paper on "The Radio Speeches of Ezra Pound."
6. The department also participated in sponsorship of the following events:
- a. A pair of lectures on Semiotics by Thomas Sabaok, Professor of Linguistics at the University of Indiana (March 20, "Clever Animals and Dumbfounded People -- A Semiotic Analysis") and Jonathan Culler, Professor of English at Cornell (April 17, "The Semiotics of Literature").
 - b. A lecture (April 13) on contemporary critical perspectives by eminent German scholar Gerhard Hoffman, whose reputation as critic of Modern American Literature is international.
 - c. A symposium on Literature and New Mexico which was organized by Professor Claude Semlinger and co-sponsored by the Department of Modern and Classical Languages. This symposium featured distinguished French writers Jean Marie LeClezio and Nathalie Sarraute in a series of panel discussions, along with faculty from the co-ponsoring departments.
7. Robert Sattelmeyer, who completed his Ph.D. in 1975, won the Popejoy Dissertation Prize for 1978. The department nominates one dissertation for this prize every third year, and the competition involves seven other departments in the university. The award, which provides \$1000 to the winner, is designed to recognize and encourage "The highest level of academic excellence." Since Bob Sattelmeyer (now Assistant Professor of English at the University of Missouri) is the second

nominee from English to win the Popejoy Prize in ten years, the department has good reason to be very pleased as it joins in congratulating the winner. The winning dissertation is titled Away from Concord: The Travel Writings of Henry Thoreau. The faculty director was Leon Howard.

8. The D. H. Lawrence Fellow for 1978 is Karen Hillier, an artist who teaches at Texas A & M. University. Ms. Hillier was selected by a committee which included Gene Frumkin, Hugh Witemeyer, Harvena Richter, and Al Bearce. Again competition was strong, and the decision was difficult. Writers and artists from all parts of the country continue to be interested in the opportunity to spend a summer at The Lawrence Ranch. And now, after two years of financial uncertainty, the Fellowship has an assured future, since President Davis has agreed to provide annually that portion of the stipend not generated from the Fellowship fund.
 9. Total enrollment in all English classes for 1977-78 dropped 7% from the level for 1976-77. Most of this drop was recorded in the general literature courses (270,280,300,360), which are intended substantially for non-majors and non-minors. In these courses we reduced the total number of sections by 15%, and the combined enrollment dropped by 28% (from an average of thirty students per class to an average of twenty-five). Enrollment in the major program (290,294,295,296,351-354,375-490) remained constant -- from 1266 to 1258, with the class average remaining at twenty-two students. Total enrollment in 100-level courses dropped by 3.8%, but the demand for classes remained strong at the beginning of each semester. Enrollment in other writing courses (220 and 320) increased by 7%. Graduate enrollment decreased at the same rate (7%). Obviously we will continue to face great demand from students for instruction in writing. The major program seems to be holding its own. If we wish to restore lost enrollment in the general literature courses, we probably have some serious planning to do. On the other hand, since some of the loss there last year resulted from a shift of senior faculty to the Freshman English Program, perhaps general literature offerings should not be a major concern. A certain amount of annual variation will be inevitable in that portion of the curriculum anyway.
- C. Richard Fly joins the department next year as Visiting Associate Professor. His research has been concentrated on Shakespeare, but he will teach courses in the Renaissance generally. Professor Fly completed the Ph.D. at UC Berkeley in 1971. He has been at SUNY Buffalo since 1969.
- D. Lynn Bloom resigned as Associate Professor in April. She will take a position with the same rank at the College of William and Mary in Virginia.
- Edith Buchanan retired amid appropriate tribute and, of course, universally-shared regret.

PART II

ANNUAL REPORT - 1977/78

1. ADVANCED STUDY

Patrick J. Gallacher

-Two weeks research, in July, 1977, at the Huntington Library, San Marino, CA.

Hamlin Hill

-Research, University of California, Berkeley, January 1977.

2. SABBATICALS ETC.

Rudolfo Anaya

-Travel and research in Yucatan

James F. Barbour

-Sabbatical leave beginning the fall semester 1977.

Robert F. Fleming

-Research at the University of Illinois library, June 1977.

David Johnson

-Sabbatical leave, Spring, 1978.

David R. Jones

-Sabbatical leave academic year 1977/78

Jane Kopp

-Sabbatical leave, academic year 1977-78

Thomas Mayer

-Sabbatical fall 1977.

Mary Jane Power

-Sabbatical leave, Spring, 1978. Travel to Ireland. Research on James Joyce and the popular culture of 1904.

David Remley

-Sabbatical leave, Fall 1977.

Harvena Richter

-Month of November spent in London, England, doing research on an early ms. of Mrs. Dalloway in the British Museum. Also visited Virginia Woolf's house in Rodmell (subject of essay to appear late April '78) and the Quentin Bell's (V.W.'s nephew/biographer and wife).

Leslie Marmion Silko

-Leave Without Pay, Spring 1978

Marcia Tillotson

-Austin, Texas, to work on Byron Apocrypha at the Humanities Research Center, University of Texas.

2. Continued

Mary Martha (Marta) Weigle

-Adjunct professor, Ph.D. committee of Martha Iwaski, Union Graduate School West.

3. NEW SCHOLASTIC HONORS ETC.

Rudolfo Anaya

-Awarded Post-Doctoral Fellowship by the National Chicano Council on Higher Education (April 1978). The award is to cover the full academic year 1978/79.

Ernest W. Baughman

-Listing professional biography, partial bibliography in Enzyklopadie des Marchens. Kurt Ranke, Comp. 1: Item 1365, 1977.

Edith Buchanan

-Distinguished Professor, Undergraduates, 1977
Who's Who in the Southwest

Michael Fischer

-College of Arts and Sciences Summer Research Stipend - Summer 1977

Cheryl Hope Fresch

-College of Arts and Sciences Summer Research Stipend - Summer 1978

Patrick J. Gallacher

-Appointed a member of the Executive Council of the Medieval Association of the Pacific. March 1978 chosen educator of the month by Las Campanas.

Hamlin Hill

-Director, NEH Summer Seminar, "American Humor," Summer 1977; appointment, Advisor, National Humanities Center; appointment, Director, NEH Seminar for College Teachers, 1978-79; appointment, director, Foundation for American Letters and the Media.

Marcia Tilletson

-Honorable Mention, WCML essay contest, "'Her Hideous Progeny': Mary Shelley, the Monster, and Frankenstein"

Mary Martha (Marta) Weigle

-Zia Award (for outstanding New Mexico author), New Mexico Press Women, 23 April 1977

4. PUBLICATIONS

Rudolfo Anaya

-HEART OF AZTLAN (Dec. 1976) Editorial Justa Publications, novel
-"The Writers Landscape", article, SOUTHWEST AND CEA CRITIC
-Wrote introduction to Sabine Ulibarri's MI ABUELA FUMABA PUROS (MY GRANDMOTHER SMOKED CIGARS).

James F. Barbour

-"'The Light of the World': Hemingway's Comedy of Errors," Notes on Contemporary Literature, 7 (December, 1977), 5-8.

4. Continued

Ernest W. Baughman

- "Excommunications and Banishments from the First Church in Salem and the Town of Salem, 1629-1680," Essex Institute Historical Collections, 1977 Volume 113, No. 2, pp. 89-104
- Editor: New Mexico Folklore Record, 1976-77 (May 1977), Vol. 14, pp. 1-26.

Paul B. Davis

- "To Air is Human: Some Humanistic Principles in the Design of Thermosiphon Air Heaters," proceedings of the ERDA Conference on Passive Solar Heating and Cooling, Los Alamos Scientific Laboratory, pp. 40-45
- "To Air is Human" Another version. Solar Age, II, 2 (February 1977) 24-27
- "Living in a Solar House" Bulletin of the New Mexico Solar Energy Assoc., Oct. 1977

William C. Dowling

- The Critic's Hornbook (Harper & Row, 1977)
- "Johnson Redivivus" (review of W. Jackson Bate's Samuel Johnson), Inquiry (December 1977)

Morris Eaves

- "Blake & the Artistic Machine: An Essay in Decorum & Technology," FMLA, 1977 (Oct.), Vol. 92, No. 5, pp. 903-927 (illustrated).
- Review of Howard, John, Blake's "Milton," in Studies in Romanticism, Spring 1977, Vol. 16, No. 2, pp. 251-260.
- FORTHCOMING: "Lamb, Charles," entry in Milton Encyclopedia, ed. William B. Hunter, Jr. (Bucknell Univ. Press).
- "What Is the 'History of Publishing'?" Publishing History 2 (Cambridge, England: Somerset-Maitland).
- Comprehensive index to Foster Damon's Blake Dictionary, scheduled for publication as a separate volume by Brown University Press.

Michael Fischer

- "Matthew Arnold's Anticipation of Subsequent Challenges to Humanism" - Essay accepted by So. Humanities Rev.
- "The Imagination as a Sanction of Value: Northrop Frye and the Uses of Literature," Centennial Review, 1977, Volume XXI, No. 2, pp. 105-117. (Spring, 1977)
- "The Legacy of English Romanticism: Northrop Frye and William Blake" (Blake: An Illustrated Quarterly, forthcoming), Spring, 1978
- Review of Cunningham, J.V., The Collected Essays of J. V. Cunningham (Rocky Mountain Review of Language and Lit. Winter 1977/78).

Robert Fleming

- "Hemingway's Treatment of Suicide: 'Fathers and Sons' and For Whom the Bells Toll," Arizona Quarterly, 1977, Vol. 33, pp. 121-132.

Cheryl H. Frasch

- "Milton's Eve and the Problem of the Additions to the Command" accepted by Milton Quarterly. To be published in Oct. 1978. Length: 19 pp.

Gene Franklin

- The Mystic Writing-Pad (poetry) Fairfax, California, The Red Hill Press, 1977.
- The Indian Rio Grande: Recent Poems From 3 Cultures. Carrillos, N.M., San Marcos Press, 1977. (anthology) Co-editor: Stanley Noyes.

Gene Frumkin

- "Soulfeathers for Albert Camus," "Indian Corn," "The Anglo Coordinator" in Southwest: a Contemporary Anthology. Albuquerque: Red Earth Press, 1977, pp. 169-171. General editors: Karl and Jane Kopp.
- "Driving to Cody, Wyoming (August 1976)," "That One," "Surface," "Selected Loops," "Passing By," "Tall Country," "A Quality of the Opaque" in The Indian Rio Grande: Recent Poems From 3 Cultures. Carrillos, N.M., San Marcos Press, 1977, pp. 163-170. Editors: Gene Frumkin and Stanley Noyes.
- "Identity," "American Foreign Policy," "Terrorism," "Another Backward Glance," boundary 2, Vol. 5, No. 2, Winter 1977, pp. 606-609.
- "Scent," "Richard," "Summer Session," South Dakota Review, Vol. 14, No. 4, Winter 1976-77, pp. 31-33.
- "Mutilations," Southwest Women's Poetry Exchange, #4, January 1977, unnumbered.
- "Plums," "The Uncertainty Principle," "Cold Winter," "Story," "The Thief," Aureola, Vol. 1, No. 2, 1977, unnumbered.
- "Avocados," "Going Ape," Chawed/Razin / Mouse River, March 1977, no issue number, pages unnumbered.
- "Bitter & Sweet," Poetry Texas, Vol. 1, No. 2, 1977, p. 13.
- "Fray Marcos da Mena," A, Vol. 2, No. 1, Spring 1977, p. 4.
- "People," Southwest Women's Poetry Exchange, #5, May 1977, unnumbered.
- "The Anglo Coordinator," Contact II, No. 5, July-August 1977, New Mexico section, p. 31.

Hamiln Hill

- America's Humor from Poor Richard to Doonesbury, with Walter Blair, Oxford University Press, 1978.
- "Black Humor and the Mass Audience," American Humor, Essays Presented to John C. Garber (Arete Press: Scottsdale, 1977), pp. 1-11.
- "Introduction" to Thomas A. Tenney, Mark Twain: A Reference Guide (Boston: G. K. Hall, 1977), pp. ix-x.
- "Mark Twain" in American Literary Scholarship, 1975 (Durham: Duke University Press, 1977), pp. 103-114.
- Guest co-editor, American Literary Realism 10 (Summer, 1977) (George Arms issue).

Michael J. Hogan

- "A Review of Speaking of Words," CCC, 29 (February, 1978), 100-102.
- "Grammatical Tenuity in Fiction," Language and Style (forthcoming).

Leon Howard

- Renaissance Uses of Raman Logie (for private circulation), Albuquerque, 1977, 100 pp.

David Johnson

- "James Mountains," "Migrations," "Easter," etc. The Indian Rio Grande, San Marcos. Also anthologized in Southwest: A Contemporary Anthology & Voices from the Rio Grande
- 4 poems in Shephard's Pie, Bard Press
- 4 poems in Out of Sight
- "Women in a Spanish Fishing Village," Cafe Solo, #10, Autumn 1977
- Article: "The Wisdom of Festival," Parabola, v. II, #2, Spring 1977

Ivan Melada

- Essay entitled "George Gissing's 'Anti-jinge book': The Crown of Life and the Question of Peace" accepted by the Gissing Newsletter.

Peter Page

- "Poe and Empedocles: Poe's Satire of Intuition in Eureka," Accepted by Poe Studies (Washington State Univ.) for publication 1978.

Harvena Richter

- Poem sequence, "Seven Scenes from Meditation" in the Winter 1977-78 issue of South Dakota Quarterly.
- Poems, "Owning" and "A Riddle" Sept. 8th and 19th, on Home Forum Page, Christian Science Monitor

Leslie Marmon Silko

- Novel, CEREMONY, Viking Press

Ellen Spolsky

- Rev. of The Idea of the Canterbury Tales by Donald Howard. English Studies, 58,1 (Feb. 1977), 56-58.
- "Old English Kinship Terms in Beowulf," Neuphilologische Mitteilungen, LXXVIII, 3 (1977), 233-237.
- The Consolation of Alison: Conscillyng is no Comandement forthcoming in Centrum

James L. Thorson

- Article-Review, "Current Books on Seventeenth Century Drama," Rocky Mountain Review, Volume 31, November, 1977, pp. 230-235.
- Notices of two papers to appear in Restoration, A Newsletter, in the Spring issue.
- "American Satiric Fiction since World War II," (in Macedonian) in Sovremenost Contemporary Review, pagination upon publication this fall or winter.

Marcia Tillotson

- Review of Byron Bibliography for Modern Humanities Review/Yearbook of English Studies.
- Review of Byron's Letters and Journals. Modern Philology.

Mary Martha Weigle

- "Ghostly Flagellants and Dona Sebastiana: Two Legends of the Penitente Brotherhood," Western Folklore, vol. 36, 1977, pp. 135-47.
- "Introduction" to reprint ed. of Otis, Raymond, Miguel of the Bright Mountain, pp. v-xxx. Albuquerque, University of New Mexico Press, 1977.
- Review of Farrer, Claire R., ed., Women and Folklore, in Signs: Journal of Woman and Culture, vol. 2, 1977, pp. 911-13.
- Review of Horgan, Paul, Lamy of Santa Fe, in Rio Grande History, no. 7, 1977, pp. 15-16.

Peter White

- "The Puritan Poets and the American Indians," Minority Voices, to be published Spring issues, 1978.
- Review of Gallagher, Edward J. and Thomas Werge, Early Puritan Writers: A Reference Guide, Seventeenth-century News, to be published winter 1978.

4. Continued

Hugh Witsmeyer

- "Walter Savage Lander and Ezra Pound," in Romantic and Modern: Revaluations of Literary Tradition, ed. George Bernstein (Pittsburgh: University of Pittsburgh Press, 1977), pp. 147-63.

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS ETC.

Rudolfo Anaya

- "The Village Which the Gods Painted Yellow", short story
- "A Story", short story
- Work on novel in progress
- Appointed associate editor, THE AMERICAN BOOK REVIEW

James F. Barbour

- "A Checklist of Criticism on Early Afro-American Novelists," to have been published in Studies in Black Literature sometime in 1977:
- "Sources and Genesis for Melville's 'Norfolk Isle and the Chola Widow'"
- submitted; "The Natural: Epitaph for Eddie Waitkus"
- submitted; articles on Cather, The Professor's House; Bouton, Ball Four; Malamud, The Natural; Hemingway, "The Very Short Story" ET AL.

Ernest W. Baughman

- Continuing study of church and court records of members and nonmembers of Salem, Massachusetts. Continuing study of style characteristics of Nathaniel Hawthorne.
- Continuing cataloguing of student collection of folktales and folk beliefs.

Edith Buchanan

- Continued work of epic structure in Milton

William C. Dowling

- The Logic of Literary Interpretation (book)
- "Wittgenstein and 'Logical Space'" (article)

Morris Eaves

- book: William Blake and the Technologies of Art (in process, substantially complete)
- book: The Marriage of Heaven and Hell (in progress: draft complete)

Michael Fischer

- Completed first three chapters of book, tentatively entitled Defending Literary Study: Literature as Social Criticism.
- Continued work on several essays: "Literature and Labor in the Criticism of Matthew Arnold"; "Romanticism Against Itself: Harold Bloom's Theory of Reading"; "Marxism and Romanticism: The Persistence of the Romantic Movement"; "The Adversary Defense of Poetry: A Look Back at the 1960's"

Robert E. Fleming

- James Weldon Johnson and Arna Wendell Bontemps: A Reference Guide, forthcoming from G. K. Hall, January 1978.
- Willard Motley, forthcoming from Twayne, July 1978.
- Sinclair Lewis: A Reference Guide in progress for G. K. Hall approx. 20% completed. Contract calls for completion in July 1979.

Cheryl Hope Fresch

- "The Hebraic Elements in the Creation of Eve in Paradise Lost". Submitted 4 months ago to Milton Studies. Articles in progress: "The Water and Fire Imagery in Richard II" and "The Dramatic Structure of Much Ado about Nothing" and "A Gloss on The Doctrine and Discipline of Divorce".

Patrick J. Gallacher

- "Aesthetic Distance, Self-Knowledge, and Attitudes Towards Sickness in the Summoner's Tale," article submitted for publication.
- "Irony, Wisdom, and Inexpressibility in the Merchant's Tale," 57 page (typescript) article being revised for recirculation.
- "The Body of this Pilgrimage", a project that will, result in a book.

Hamlin Hill

- Mark Twain's Collected Letters, Vol. II, University of California Press, publication scheduled for late 1978
- Mark Twain: The Critical Reception, in progress, under contract to Burt Franklin, Inc., completion date, June, 1978.

Michael J. Hogan

- "Words, the World, and John Hawkes," an essay now circulating.
- "Voice as a Critical Concept" in preparation.

Leon Howard

- The Creative Imagination in American Fiction (prospective book)

David G. McPherson

- Research for book to be called Shakespeare and Renaissance Diplomacy (in progress)

Ivan Melada

- Extensive research for a new course: "Politics and Literature".
- Four essays circulating: World War I writers; Wm. Morris; Graham Greene; John Ruskin.
- Another essay on H. G. Wells being prepared to circulate.
- Ms. on War and English Lit in hands of Cooperative Imprint, Miami U. and Ohio State since August, 1977.

Roy G. Pickett

- Reading in literary structuralism and stylistics
- Study of Spanish

Harvena Richter

- Signed contract with Princeton University Press for CONRAD RICHTER ON WRITING (completed half of the ms. during summer). In progress: two articles on Virginia Woolf.

Leslie Marmon Silko

- National Endowment for the Humanities grant for Laguna Pueblo Film Project, (in progress), Spring 1978.

James L. Thorson

- Continued research in seventeenth century English literature and Yugoslav-American literary relations.

5. Continued

Marcia Tillotson

- Still working on bibliography of Byron Apocrypha
- Writing review of several works by Mary Wollstonecraft and a biography of her for Blake: an Illustrated Quarterly.

Fred Warner

- Research at Humanities Research Center, University of Texas (Austin), sponsored by UNM Research Allocations Committee, May, 1977. Subject: T. J. Wise Forgeries.

Mary Martha (Marta) Weigle

- Two book review notes for JOURNAL OF ANTHROPOLOGICAL RESEARCH.
- Completed final work on ms. for UNM Press (to be published June 1978)., co-editor with Charles L. Briggs; to be entitled "Hispano Folklore of New Mexico: The Lorin W. Brown Federal Writers' Project Manuscripts."

Mary Bess Whidden

- "Irony and Self-Consciousness in the Elizabethan Mythological Poem" in circulation.
- "The Method of Amoretti 15" in circulation.

Peter White

- Awarded National Endowment for the Humanities, for Summer 1978, Stipend, \$2500.
- Proposal to finish critical edition of the poetry of Benjamin Tompson, Seventeenth-century American poet.
- several short articles under consideration.

Hugh Wittemeyer

- In progress: book-length manuscript entitled George Eliot and the Visual Arts.

Joseph B. Zavaddi

- Essay on Chaucer's Life of St. Cecilia in progress; one draft completed.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES ETC.

Rudolfo Anaya

- Member AAUP
- President, Rio Grande Writers Association
- Member of board and Executive Committee of CCLM the Coordinating Council of Literary Magazines
- Lectures at Occidental College, CA, Eastern NM University. UC Santa Barbara.
- Informal talk to chicano students UCLA
- Lecture at RMMLA, Santa Fe.

James F. Barbour

- MLA Member
- RMMLA member

Ernest W. Baughman

- Paper read: "A Folklore-Deprived Community," joint meeting of the Texas and New Mexico Folklore Societies, El Paso, May, 1977.
- Editor: New Mexico Folklore Record.

Morris Raves

- MLA Annual Meeting, Chicago, Dec. 1977: "Teaching Blake's Relief Etching," paper presented at the annual meeting of the Romantic Division of the MLA (paper refereed by the Committee of the Division).

Robert Fleming

- Attended MLA convention, Chicago, Dec. 1977.

Gene Frumkin

- Board member, Rio Grande Writers Assn.: attended meetings in Las Vegas, NM (April) & Las Cruces (Oct.).
- Guest Reader, ASUNM-GSA Poetry Series, UNM
- Reader-Lecturer, UNM Summer Workshop;
- Judge, Coordinating Council of Literary Magazines College Magazine Contest
- Poet-in-Residence, Poetry-in-the-Schools, Las Vegas, NM.

Patrick J. Gallacher

- Participation in annual convention of the Medieval Association of the Pacific, February, 1977.

Hamlin Hill

- Keynote speaker, Missouri Philological Association, Warrensburg, MO, February 18.
- Exchange lecturer, Arizona State University, April 29.

Michael Hogan

- "New Directions in Teaching College Writing," Kansas Conference on Composition and Literature in the Schools, Lawrence, Kansas, October.
- Attended NMCTE Conference, Santa Fe, and CCCC in Kansas City.

Leon Howard

- Attended annual meeting of Modern Language Association of Australia, Wellington, NZ, January 28-29.

David M. Johnson

- Secretary, The Rio Grande Writers Association

Ivan Melada

- Member, MLA
- Member, RMMLA
- Active Member, Friends of The Huntington Library

Peter Page

- Attended New Mexico Council of Teachers of English in Santa Fe, Oct. '77.

Ellen Spolsky

- "The Practical and Theoretical Importance of Computer-assisted Literary Research," read at the Rocky Mountain Modern Language Association Meetings, Las Vegas, Nev. October, 1977.

James L. Thorson

- Presented paper on Charles Cotton at Midwest Modern Language Association meeting in Chicago in October.

Marcia Tillotson

- "Her Hideous Progeny," paper read at RMMLA, October 1977
- "Training Women Readers," paper read at RMMLA, October 1977
- Attended MLA in Chicago, Dec. 1977.

Fred B. Warner

- RMMLA meeting at Las Vegas, Nevada, Oct. 20, 21, 1977
- attended annual convention Rocky Mountain Modern Language Association, read a paper, "They Can't Read, Either" at the Composition Section Meeting.
- attended annual meeting of Modern Language Association, Chicago, Dec. 1977.

Mary Martha (Marta) Weigle

- "Folk Religion in Hispanic New Mexico: The Passion in Village and Penitente Worship," a paper presented at the annual meeting of the American Folklore Society, 4 November 1977.
- Publications Editor, American Folklore Society, appointment as of Nov. 1977.
- Editor, Folklore Feminists Communication (to be changed to Folklore Women's Communication), a newsletter of the Women's Section of the American Folklore Society.
- Second Vice-President, New Mexico Folklore Society.

Peter White

- Tradition and Renewal: The Poetry of Benjamin Tompson, a paper presented at The Northeast Modern Language Association, April 1977-
- Appointed assistant editor of Minority Voices: An Interdisciplinary Journal Literature and the Arts.

Eugh Wittersyer

- Attended annual national meeting of the Modern Language Association, New York, 12/76, Chicago 12/77.

7. OTHER PROFESSIONAL ACTIVITIES ETC.

Rudolfo Anaya

- 1977 Commencement speaker at College of Santa Fe;
- Commencement speaker for graduating class at the National College of Business, Albuquerque
- Faculty advisor to UNM Literary Magazine
- Judge in WRITERS FORUM literary contest, Colorado Springs
- Read at FLORICANTO national chicano literary conference
- Speaker at Sandia Hi, Rio Grande Hi, John Adams Jr. Hi
- Interview in KADQ
- Spoke to chapter of AAUW
- Addressed WEA Literature Panel, Santa Fe

James F. Barbour

- "Prose's Best Pitch Has Words Written All Over It," Albuquerque Journal, Sunday, March 20, 1977 (concerning the "Literature of Baseball" course taught spring semester, 1977).

Morris Hayes

- Co-Editor, Blake/An Illustrated Quarterly
- Delivered a Presidential Scholars Colloquium, 10 Nov. 1977 (on art & technology)

7. Continued

Patrick J. Gallacher

- Lorraine Attreed, a student who took three of my courses, was the first student at UNM to win a Marshall Scholarship. Several members of the faculty had a hand in this, of course, but I believe that, apart from the student's own considerable merits, I played the most important role--coaching, exhorting, encouraging.

Hamlin Hill

- Lectures: University of Texas at Austin, January 27; Casper Community College, March 24-25., University of California at Berkeley, December 19-20.
- Editorial consultant: American Literary Realism, PMLA, University of Chicago Press. Member Editorial Board, American Literary Realism, The Old Northwest, Studies in American Humor.
- Referee: National Endowment for the Humanities, Media Division and Division of Research Grants.

Michael Hogan

- Consultant Reviewer for Holt, Rinehart and Winston.

Leon Howard

- Member Advisory Board, Northwestern-Newberry edition of The Writings of Herman Melville.

David M. Johnson

- Workshop in teaching the novel, Socorro High School, Aug. 18, 1977
- Selection Committee, Artists-in-the-Schools, APS, August 1977.
- Panel: "Children: Who's Watching Our Children", NMHC Los Alamos, Nov. 16, 1977.

David McPherson

- Lecture sponsored by English Department, Arizona State University, Oct. 17, entitled "Jonson's Bawdy."

Harvena Richter

- Worked as SCRIPT CONSULTANT for the 7-hour N.B.C. mini-series (Feb. 19-21'78) The Awakening Land from January through October. Included some script writing and scene treatment plus special trip to Calif. in June for eleven days of consultation. (Screen credit as "historical consultant" because Script Writer's Guild would not allow script cons. to be used").

Fred Warner

- Advisor to New Mexico Humanities Council on projected film history of labor relations in New Mexico.

Mary Martha (Marta) Weigle

- "The Penitente Brotherhood: Its Origins and Early History," Summer Lecture Series, Santa Fe Historical Society, 13 June 1977.
- "The Penitente Brotherhood," A talk for Friends of Zimmerman Library, UNM, 26 April 1977.

Peter White

- Undergraduate Honors Seminar, Spring, 1978, The Old Time Fiddlers of New Mexico.
- Presented proposal to Rocky Mountain Modern Language Association to establish Early American Literature Section at annual convention.

7. Continued

Hugh Witemeyer

- Gave talk on George Eliot to English Department, University of Sheffield, England 3/77.
- Gave talk on Ezra Pound to American Studies Department, University of East Anglia, England 5/77.

Joseph B. Zavadii

- Writing Workshop at Los Alamos High School in March
- Talk, Grants Rotary Club in March
- Judge, Civitan Regional Essay Contest
- Judge, NM-Arizona Moose Essay Contest

8. NON-TEACHING UNIVERSITY SERVICE ETC.

Rudolfo Anaya

- Member Creative Writing Committee
- Advised on creative writing thesis (fiction)
- Faculty meetings
- Reviewed job applicants

James F. Barbour

- P&P Committee, English Department (spring semester 1977)

Ernest W. Baughman

- Member, Department of English Policy and Personnel Committee
- Member, Committee on American Studies

Edith Buchanan

- Graduate Committee, Department of English
- Committee on Graduate Examinations
- Interdepartmental Committee on Classics
- Advisor to Doctoral and Masters Candidates

Paul Davis

- Faculty Senate
- Undergraduate Academic Affairs Committee
- Faculty Ethics Committee
- Policy and Personnel Committee

William C. Dowling

- Board of Directors, UNM Faculty Club
- English Department Curriculum Committee
- Undergraduate Advisor to English Majors

Morris Hayes

- University: UNM Press Committee
- Faculty sponsor, Presidential Scholars
- Department of English: elected member, Policy & Personnel Committee

Michael Fischer

- Faculty Advisor, English Graduate Student Association

8. Continued

Robert E. Fleming

- Member of English Dept. Policy Committee
- American Studies Committee

Cheryl Hope Frasch

- January 1977-May 1977, Freshman English Committee
- September 1977- , P and P Committee

Gene Frumkin

- Chairman, D.H. Lawrence Fellowship Committee
- Member, English Dept. Creative Writing Committee
- Chairman, Editorial Advisory Board, new literary/arts magazine, UNM

Hamlin Hill

- University Press Committee
- Arts and Sciences Committee on Academic Programs, Tenure Committee, and Humanities Promotion Committee
- English Department Policy and Personnel Committee

Michael J. Hogan

- Acting Director of Freshman English, Semester II, 1977 and Semester I, 1978
- Freshman English Committee

Leon Howard

- Chairman, 2 Ph. D. Committees (dissertations completed)
- Member, 1 Ph. D. Committee

David M. Johnson

- Director of Creative Writing
- Director: The University of New Mexico Writers Workshop, Summer 1977.

David C. McPherson

- August-Sept., Director of Graduate Studies, English Department
- Member, Arts and Sciences Graduate Committee
- Member, Arts and Sciences Comp. Lit. Comm.

Ivan Molada

- MA Exam Grader, summer 1977
- Set Question for MA Exam, spring 1977
- Chairman, Dept. Library Committee
- Library Liaison, spring & fall
- Zimmerman Library serials cancellation Project, summer, 1977

Peter C. Page

- Freshman English Committee

Roy G. Pickett

- Assoc. Member of the Linguistics Dept.
- Committee Member for Linguistic Summer Institute Proposal
- American Studies Dissertation Committee
- Member of Student Standards and Grievance Committee

8. Continued

Ellen Spolsky

- M.A. advisor
- Computer Use Comm.
- Ph.D. Dissertation director
- M.A. Thesis director

James L. Thorson

- Sponsor of three Presidential Scholars

Mary M. Weigle

- University Press Committee
- Student Publications Board
- Advisory Board for new literary/arts magazine

Mary Bess Whidden

- M.A. advisor
- Health Sciences Board

Peter White

- Faculty Advisor to parolees from the New Mexico State Penitentiary now attending UNM

Hugh Witzmeyer

- English Department Graduate Committee

Joseph B. Zavadil

- Department Chairman
- Faculty Senate
- Faculty Senate Executive Committee
- UNM Ambassadors

9. PUBLIC SERVICE

-Rudolfo Anaya

- Visits and talks to groups
- Attended two national CCLM meetings
- Attended two Rio Grande Writers meetings
- Awarded New Mexico Distinguished Public Service Award, April 1978

James F. Barbour

- Christ Lutheran Church member

Edith Buchanan

- Albuquerque Opera Guild

William C. Dowling

- Church activities
- Community Chest
- Boy Scouts

Hamlin Hill

- Lecture, Institute of Electrical and Electronic Engineers, Albuquerque, November 30

Ellen Spolsky

- Board of Directors Akiba Day School

9. Continued

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Mary M. Weigle

- Board of Directors, Santa Fe Historical Society
- Planning Committee, Southeast Neighborhood Association, Santa Fe

Hugh Witemeyer

- Member, Pacific Region Selection Committee for the Marshall Scholarship

Joseph B. Zavadil

- President, Bandelier Elementary School PTA

10. PERSONAL INFORMATION

Roy G. Pickett

- Son, Jon, graduated from UNM in May, receiving a BUS, with distinction and cum laude in General Studies.

Peter White

- Boy born October 10, 1977, Ethan John White

THE REPORT OF THE DEPARTMENT OF GEOGRAPHY

July 1, 1977 - June 30, 1978

Richard E. Murphy, Chairman

I. General Departmental Information

In view of the forthcoming renovation of Hodgkin Hall as an alumni headquarters, plans are again under way for a move of the Geography Department to a permanent location nearer the center of campus. Consideration is being given once more to Bandalier East as a future departmental home. Meanwhile, Hodgkin Hall is being used ever more effectively for the needs of the Geography Department.

The Department was fortunate in securing a considerable sum from the bond issue for equipment, particularly for the programs in cartography and air photo interpretation, but also for improvements in the classroom and in the physical laboratory. In addition, the wall map collection has been greatly expanded.

Both climatology and remote sensing are receiving increased attention. A State Climatological Center is to be located in the Department for research and to provide materials to interested persons in the state and region. Direct use is being made of the remote sensing facilities of the Technology Application Center, now headed by a member of the Geography faculty.

Several new courses have been inaugurated, although several others have been dropped. For the first time, a course on Africa will be added to the schedule. A new member of the

staff is being recruited especially to take over and expand cartography. This, in turn, ties in with the additional equipment procured and with additional space provided for cartography on the lower level of Hodgin Hall.

A. Significant Achievements

Cartography has been given a great boost this year, and remote sensing and air photo interpretation have been further enhanced. Needed equipment has been added in several categories, and new courses contribute to the breadth of training available to students in the Department.

The cartography laboratory will be ready for full use in the fall. Room 105 on the lower level of Hodgin Hall has been added to the space available. This room connects with Room 106B, the cartography laboratory. Equipment has now been procured to provide for 20 students in the cartography laboratory. Specifically, there are now available 20 drafting tables and stools, 20 map file drawers, 20 drafting sets, and assorted other instruments and light tables for a well equipped cartography lab. The lab itself is in Room 106B. Room 106 gives direct access to the outside, thus meeting fire regulations. Room 105 has ample room for the students' map file drawers, the light tables, and the other equipment. A small wash room with a sink for cleaning pens connects Rooms 105 and 106B. Together these rooms occupy about half the space on the lower level of Hodgin Hall.

Equipment secured through the bond issue funds includes several major items for use in air photo interpretation. Individual stereoscopes for 20 students are being procured, a scanning

mirror stereoscope has been ordered, and a sketchmaster for converting photographic images to maps is being acquired.

The classroom has been much improved by the acquisition, through the bond issue funds, of chair desks with good sized working surfaces, especially helpful in classes where maps and air photographs are used. A new overhead projector and a new slide projector are being acquired which should greatly facilitate the lectures where such projected materials are shown.

In the physical geography laboratory a wall map rack has been installed. Five large laboratory tables and a slated outline globe with a movable floor stand have been acquired with funds from the bond issue.

The wall map collection has been greatly augmented. It was already substantial, but the bond issue funds enabled the department to fill many gaps. Furthermore, the Anthropology Department culled its collection, and this surplus is being added to the collection of the Geography Department. All these maps are being duly catalogued and added to the already organized collection.

Room 301 has been converted into a graduate study room and library. There are now individual carrels for the graduate students and a reading room with table, chairs, drafting tables, and a small but growing library. The Sandia Corporation has contributed to this small library nucleus, and a reference catalogue to these materials has been kept up to date as additional books have been received.

A series of informal colloquia or "teas" has been inaugurated for the benefit of students and staff alike, and the Department has had a number of distinguished guests at these functions. Among the speakers were Professor Brian Berry of the Harvard Department of City and Regional Planning, who is the current President of the Association of American Geographers; Professor Karl Peltzer, who has just retired from many years as a professor of geography at Yale; Dr. Hans-Joachim Späth of the Institute of Geography at the University of Duisburg in Germany; and Dr. Helmut Knotig, Secretary-General of the International Society for Human Ecology in Vienna.

Only the signature of the Governor of the State remains to be affixed for the appointment of Professor Iven Bennett as State Climatologist. This in turn will implement an arrangement which has been worked out with the National Weather Service for the creation of a State Climatological Center in the Department for the servicing and utilization of records and other materials to be furnished by the Service.

A seminar in remote sensing has been added to the offerings of the department, supplementing the senior level course in this subject. Both these courses are taught by Associate Professor Stanley Morain. His appointment as Head of the Technology Application Center further enhances the close working relationship between this Department and TAC, and he is able to utilize the remote sensing materials of TAC directly in his teaching.

Another new course has been added to the departmental offerings by the new member of the Department, Assistant Professor Jerry L. Williams. He followed his fall semester course in Urban

Geography with a spring semester course in Land Use Practice and Planning which utilizes materials available locally from various agencies and in the field. In cooperation with a member of the History Department, he is compiling an Atlas of New Mexico.

Two other new courses have been approved and will be taught next year, and a course on Food Supply Systems was offered for the first time this year. Dr. Williams will offer a sophomore level regional course on Africa in the fall, drawing upon his years of experience there with the Peace Corps. An upper level course on Settlement in New Mexico will be taught by Professor Robert Campbell also in the fall. This past year a new course in Food Supply Systems was inaugurated by Associate Professor Elinore Barrett. Regionally, the new courses involve some shift in emphasis in the Department, but topically, or systematically, they involve a greater depth.

B. Plans and Recommendations

Immediate plans and recommendations call for the implementation of programs already well under way, and for the most part alluded to above; longer range plans and recommendations recently have been submitted in connection with the Self-Study Report which is being made by the entire University and which involves for each division or department a review of the past ten years and a projection into the future. Among the immediate plans and recommendations of the Geography Department are the expansion of cartography, the establishment of the Climatological Center, and the implementation of more sophomore level courses. Recommendations include the addition of graduate assistants and another staff member. Longer range plans and recommendations envision the

move of the Department to other quarters. Finally, the inauguration of a Ph.D. program should be given serious consideration.

Attention has been called to the significant increase in support for cartography. The staff replacement being recruited for the fall will have this subject as a specialty. For the first time this coming year the Department will have available a well equipped cartographic laboratory, and the new staff member will be expected not only to teach the basic course in cartography but to add an advanced course with emphasis on thematic mapping and on new techniques, including computer mapping.

The State Climatological Center to be located in the Department is near to reality. The final approval of the State Governor for the appointment of Professor Iven Bennett as State Climatologist is expected. This will enable the Department to establish the Center to be located in Room 206. This room is close to the Departmental Office from whence the Center may be serviced, but the allocation of a graduate assistantship for this function is strongly recommended.

One of the cardinal needs of the Department is for several graduate assistants, not only to man the Climatological Center but for assistants in the cartography lab, the field course, in map reading and air photo interpretation, and in land use planning. Furthermore, these additional assistantships would furnish a core for a larger and more capable group of graduate students.

Very advantageous also would be the addition of another staff member to emphasize economic geography in general and the

economic utilization of arid areas in particular. Such a person would give the same breadth to our program in human geography which we now enjoy in physical geography.

In any case, we hope to strengthen our offerings at the sophomore level by the regular scheduling of the course in Economic Resources and the addition of a course in World Regions. The course in Economic Resources, Geography 263, needs to be presented as a basic course in world economic geography. A course in World Regions should be added to offer an introduction to the various specific regions of the world and as a logical sequel to the freshman courses in Physical Geography and Human Geography. These two courses should provide a logical set at the 200 level.

Farther in the future, but already being considered in the architectural plans for the University, is the move of the Geography Department, as the Alumni Association takes over Hodgkin Hall for its headquarters. Bandelier East is again under discussion as a possible future home for Geography, and that is the recommendation of the Department, providing that the needs for classroom, laboratory, carrel, and office space can adequately be provided. Some consideration should be given to utilizing a portion of Bandelier West if there is insufficient space in Bandelier East to encompass the present floor space utilized in Hodgkin Hall, or if future expansion becomes advisable.

Also in the future should be considered the inauguration of a Ph.D. program. The faculty is more than adequate for such a development, the new equipment and facilities will provide a good physical base, the library is sufficient, particularly since the establishment of the map wing with its full time librarian, and the support facilities of the Technology Application Center are

unique. New Mexico could thus join all the states which border it in having such a program at the state's major university.

C. Appointments to Staff

A new assistant professor is being recruited with primary responsibility for developing the program in cartography. Also requisite is a broad background in geography and an ability to handle introductory courses in Physical Geography or Human Geography. Although a final contract remains to be signed, the leading applicant is Mr. Alastair Shedden, who is finishing his doctorate at Berkeley. Mr. Shedden has excellent recommendations and considerable experience. His undergraduate work was at the University of Cape Town, South Africa, and his master's degree is from Berkeley. He has taught at both institutions and at San Francisco State University.

D. Separations from Staff

Assistant Professor Douglas H. Gordon is leaving us as of the end of the 1977-78 academic year.

II. Composite of Information Requested on Individual Biographical Supplements

Following are indicated the achievements, productivity, and other activities of the staff of the Geography Department for the calendar year 1977.

Advanced Study

Assistant Professor Jerry L. Williams, appointed to the staff starting the 1977-78 academic year, completed all requirements for the doctorate in the spring of 1977. He was awarded the Ph.D. in June from the University of Oregon. The subject of his dissertation was a Retail Landscape in Rural Zambia.

Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

Professor Iven Bennett took an automobile trip through the eastern United States, garnering material, including slides, for his course in the Regional Geography of North America. From January 2 - 13, Professor Rodman Snead investigated ten arcuate bays along the northwestern coast of Jamaica under a grant from the Research Allocations Committee. In August he visited several coastal locations in the southwestern United States, collecting data for his Photographic Atlas of Coastal Landforms.

New Scholastic honors, fellowships, etc. - None

Publications

Associate Professor Elinore M. Barrett: Review of C.H. Harris III, A Mexican Family Empire: The Latifundio of the Sánchez Navarros, 1765-1867, Austin: University of Texas, 1975, in the Journal of Historical Geography, Review of Alvaro López Miramontes, Las Minas de Nueva España en 1975, Mexico: INAH, 1975, in the Hispanic American Historical Review.

Professor Robert D. Campbell: "Evaluation of Man-Environment Systems," in Man-Environment Systems, Vol. 7, No. 3, May, 1977. Review of Richard A. Warrick, et al, Drought Hazard in the United States: A Research Assessment in The Professional Geographer, Vol. XXIX, 1977, pp. 317-8.

Associate Professor Stanley A. Morain: "Mapping New Mexico's Resources: Toward Better Management Through Remote Sensing," Symposia on Remote Sensing and Land Management in the South and Southwest, pp. 65-80, Texas A&M University, 1976. With R. Hooley and R. Hoffer, "Estimating Agricultural Production by the Use of

Satellite Information: An Experiment with Laotian Data," American Journal of Agricultural Economics, Nov., 1977, pp. 722-727. "Radar Image Interpretation," Chapter III, and "Comparison of Color, Color Infrared and Thermal Infrared Images," Chapter IV, in "Remote Sensing Laboratory Exercises," edited by R.D. Rudd, Remote Sensing of the Electromagnetic Spectrum, 4 (1): 10-17 and 18-26, Pub. by the Remote Sensing Committee of the Assoc. of Amer. Geographers, Omaha: Remote Sensing Applications Laboratory, University of Nebraska, 1977. With T.K. Budge and M. E. White, "Vegetation and Land Use in New Mexico," Resource Map #8, 1:1,000,000, 24x36 inches, color, New Mexico Bureau of Mines and Mineral Resources, 1977.

Professor Richard E. Murphy: "Interdependence in Geography," Chapter 7 in Interdependence: An Interdisciplinary Study edited by Archie J. Bahm, Albuquerque: World Books, 1977, pp. 53-59.

Professor Rodman E. Snead: Review of R.M.S. Perrin's and C.W. Mitchell's An Appraisal of Physiographic Units for Predicting Site Conditions in Arid Areas, Vol. I, Dec., 1969 and Vol. 2, Jan., 1971, in The Professional Geographer, Vol. XXVIII, No. 3, Aug. 1977, pp. 311-312.

Assistant Professor Jerry L. Williams: "Problems of Retailing in a Declining Rural Market of Zambia," Foreign Affairs Research, U.S. Dept. of State, June, 1977, pp. 1-19.

Other research projects or creative work in progress

Associate Professor Elinore M. Barrett completed her reading of micro-filmed documents related to her study of copper mining in Colonial Mexico. Her article on "Indian Community Hospitals of Colonial Michoacán" is in press for Geoscience and Man.

Professor Iven V. Bennett prepared and submitted to the University a proposal for the establishment of an Office of State Climatologist for New Mexico.

Professor Robert D. Campbell continued his development of a systems concept of culture.

Associate Professor Stanley A. Morain, in connection with his work as Director of the Technology Application Center, received grants for five proposals as follows: New Mexico Water Resource Research Institute, "Evaluation of Landsat Based Area Measurement Accuracies of Surface Water in New Mexico," \$14,077, Oct., 1977-Sept., 1978. New Mexico Energy Resources Board, "Heat Loss Monitoring by Airborne Thermal Scanner," \$65,708, Oct., 1977-Sept., 1978. NASA Earth Resources Laboratory, "Design and Planning Study for Creating Educational Opportunities in Automatic Classification of Landsat Data in New Mexico," \$5,914, Aug., 1977-Nov., 1977. National Park Service, Chaco Center, "An Airborne Spectral Analysis of Settlement Sites in Chaco Canyon," \$7,127, June, 1976-May, 1977. National Park Service, Chaco Center, "Analysis of MSS Data Over Bandelier," \$6,886, Oct., 1977-April, 1978.

Professor Richard E. Murphy continued his work on the classification of political units and of ethnic groups in relation thereto. He also made corrections in his manuscript of Physical Geography: An Introductory Survey for Wiley.

Professor Rodman E. Snead continued work on his Coastal Landforms and Surface Features: A Photographic Atlas and Glossary to be published by Dowden, Hutchinson, and Ross. World Atlas of Geomorphic Features is in press by Robert E. Krieger. Professor

Snead co-authored, with Associate Professor Stanley A. Morain of this Department, Satellite Views of World Physical Features and Landforms which consists of 120 space photographs and captions in press by Harper and Row. Professor Snead has an article entitled "Geomorphic History of the Mundigak Region of Afghanistan" in press by the Afghanistan Journal. He has co-authored, with Richard Erickson, "Morphological Changes in the Balakot Region of Pakistan," which has been sent for publication to Professor George F. Dales, archaeologist in the Dept. of Near Eastern Studies at the University of California, Berkeley. Professor Snead's article on "Geomorphological Changes in the Seistan Basin, Iran-Afghanistan" has been accepted for publication in the Zeitschrift für Geomorphologie. Another article, "Modelling Ephemeral Stream Channel Development in a Semiarid Upland Environment" is expected to be published in the Revue de Geomorphologie Dynamique. Professor Snead is preparing a review of M.P. Petrov's Deserts of the World for publication in the Annals of the Association of American Geographers in Sept., 1978. He is co-authoring with Philip Durgin an article on "The Physical Geography of the Soghun Valley, Southeastern Iran," which is being submitted to the Geographical Review. Also Professor Snead is preparing an article on the "Geomorphic History of the Kandahar Region of Afghanistan."

Activities in learned and professional societies

The Geography Department was well represented at the annual meeting of the Association of American Geographers in April in Salt Lake City. Those in attendance were Professors Bennett and Snead, Associate Professors Barrett and Morain, and Assistant Professor Williams. Dr. Barrett chaired a session on Surveys, Land Evaluation, and Occupation. She submitted a summary of the session for the

Historical Geography News Letter. Dr. Bennett presented a paper on "Problems in Utilizing Solar Radiation Data." Dr. Morain served on the Remote Sensing Committee of the Association. Dr. Williams presented a paper on "Problems of Retailing in a Declining Rural Market of Zambia."

Other professional meetings and papers involved Professors Campbell and Snead and Associate Professor Morain. Dr. Campbell and Dr. Snead presented papers at the annual meeting of the Western Social Sciences Association in April in Denver. Dr. Campbell's paper was on "Culture Systems as Organizing Concepts in Geographic Studies," and Dr. Snead's paper was entitled "Geomorphic Evidence for Inner Shorelines in the Las Bela Region of Pakistan." Dr. Morain attended the meeting of the New Mexico Association of Surveyors and Mappers in Las Cruces and the annual meeting of the American Society of Photogrammetry in Washington, D.C.

Dr. Morain holds a number of offices in the American Society of Photogrammetry. He is President of the Rio Grande Chapter, Chairman of the textbook Review Committee for the national organization, and First Deputy Chairman of the Education and Interpretation Skills Committee of the Remote Sensing and Interpretation Division. He is Technical Program Chairman for the Fall Convention to be held in October, 1978, here in Albuquerque. Dr. Morain also serves as a member of the New Mexico State Land-Use Advisory Committee.

Other professional activities

Professor Iven Bennett serves as a consultant to the New Mexico Solar Energy Project. Also, he serves informally as a

consultant to numerous individuals, both in and outside the University, on matters pertaining to weather and climate. This latter has been an additional rationale for formal recognition of this function by his appointment as State Climatologist.

Associate Professor Stanley Morain serves as a consultant to the University Space Research Association - Peer Review Support Office. Also, he is a book reviewer for Harper and Row.

Professor Richard Murphy gave a talk on "How Maps are Made" to the 3rd and 4th grades of Alameda Elementary School on March 25. On September 6 he gave a lecture on the U.S.S.R. to a class in Theater Arts studying Chekhov, and on November 22 he lectured on "Resources and Environment" to a class in Engineering called Energy and Environment.

Non-teaching University service

Associate Professor Elinore Barrett served as a member of the Research Allocations Committee, starting in September, 1977. She was a member of the Associate Provost's Tenure Advisory Committee through May, 1977.

Professor Iven Bennett served on the Social Science Advisory Promotion Committee of the College of Arts and Sciences.

Professor Robert Campbell served as Chairman of the IARS Faculty Advisory Committee. He also served as a member of three other committees including the Committee on Interdisciplinary Studies, the Provost's Committee on the Center for Leisure and Recreation, and the Faculty and Staff Benefits Committee.

Professor Richard Murphy served as Chairman of the Geography Department and as faculty advisor to geography majors and

graduate students. He also continued as a member of the Russian Studies Committee.

Professor Rodman Snead continued to serve as faculty sponsor of Gamma Theta Upsilon, students' international honorary geographical society. He continued also as Danforth Liaison Officer for the University. He served as faculty advisor to two Presidential Scholars. Also, he served as representative of the Geography Department on the Graduate Committee (Grievance Policy Subcommittee) of the College of Arts and Sciences.

All the staff serve as advisors to students, and several members of the department serve as thesis advisors.

Public service

Assistant Professor Jerry Williams served as a volunteer teacher of LaMaze birth education with the Albuquerque Childbirth Education Association.

Personal Information

Assistant Professor Jerry and Mrs. Williams had a second child, Brian Jeremy, born on February 14, 1977.

THE UNIVERSITY OF NEW MEXICO

DATE: May 26, 1978

TO: Nathaniel Wollman, Dean, Arts & Sciences

FROM: Richard E. Murphy, Chairman, Geography Department *R E Murphy*

SUBJECT: Information About A&S Students as Supplement to Annual Report

We have tried unsuccessfully to contact by telephone the seven students who were graduated with majors in Geography at the May Commencement and the two majors and the two master's students who were graduated at the December Commencement. We could try to contact them by mail, but more to the point is the establishment of some sort of regular procedure to garner information about the plans of graduating students for future use.

With the change from regular advisement and controlled registration to the amorphous situation which exists now, we lost all regular contact with majors and even, to a degree, with graduate students. The only contact which is specific with majors is at the time the student brings his or her Application for Degree. At that time we anticipate giving to each student a form to fill out about future plans, with the hope that the student will let us know such plans. As for our Master's degree students, we would give each one such a form at the time of the oral examination.

If it is necessary to go to further ends to obtain data on the students of the past year, we will contact them by mail with requests that the letters be forwarded if necessary. Please let us know if we should follow such a procedure.

In a larger sense, the matter touches on the whole problem of advisement and regular contact with majors. It is to be hoped that some regular procedure can be established in connection with registration each semester which would let each department know who the current majors are and even who may be intending to major in the department. Ultimately I hope that we can return to a procedure of regular advisement and registration just before the beginning of each term and that no student will be permitted to sign up for courses until his or her program of studies has been approved by an advisor. This procedure also would avoid the problems which arise from pre-registration which is so far in advance of the beginning of each term as to result in discrepancies between preliminary schedules and the final schedule which actually crystallizes just before the beginning of each term.

ANNUAL REPORT OF THE DEPARTMENT OF GEOLOGY

July 1, 1977 to June 30, 1978

Douglas G. Brookins, Chairman

1. General Departmental Information

A. Significant Achievements

The Department of Geology consists of 15 full-time faculty, 5 part-time faculty, 75 graduate students, and 137 undergraduate majors (note: an additional 75 undergraduates are listed as planning to major in geology).

During 1977 the department granted 24 bachelor's degrees, 13 master's degrees, and 2 Ph.D. degrees. This compares with 21, 7 and 3 degrees respectively for the previous year.

This past year has been excellent for employment of geology majors. Numerous industries as well as Federal and State laboratories have been vigorously interviewing our students and our placement is 100 percent of B.S., M.S. and Ph.D. recipients; further, numerous summer jobs are available for both undergraduate and graduate students. As in previous years, we are unable to supply the number of geologists in demand from our department.

Many of our B.S. and M.S. recipients receive offers from such well established institutions of higher learning as MIT, Columbia, SUNY-Albany, VPI, UCLA, UC-Berkeley, and Stanford. This is a reflection of the strength of our overall program, and we are attempting to make our program even stronger by continuing to insist on quality of combined teaching and research on the part of the faculty and a thorough understanding of the fundamentals of geology for our students. Our admissions

committee has reviewed the files of some 100 applicants for Graduate School and recommended admission for approximately 35 students for Fall 1978. Of these, we will be able to offer financial assistance to only seven to ten students, thus we expect approximately twenty new students for the Fall 1978 semester. If our projections are correct, then for the 1978-79 Academic Year we will have a graduate enrollment of 65 to 70, a decrease of 5 to 10. This is in keeping with our policy of trying to reduce the student/faculty ratio to about four (note: five years ago geology listed nearly 90 graduate students with a faculty of only 13). We feel that a level of about 60 students is best suited for our size faculty and we certainly do not plan to lower standards to accept marginal students. In this manner we continue to make offers of financial assistance to some of the best students nationwide and our graduate program continues to be increasingly recognized both in the U.S. and abroad.

During the past year the Geology Department managed research grants and contracts totalling \$2,550,000. Much of this money is used for purchase of equipment used both for research and teaching and many of our students are supported as RA's by research funds. From release time and other departmental sources we endeavor to provide financial support to all of our graduate as well as deserving undergraduate students.

The Geology Faculty continues to improve in all areas. Our 14 full-time faculty for the past year published some 177 papers, including 15 percent co- or solely-authored by graduate students.

The Geology Department continued its participation in the programs of National and Local organizations. Geology Faculty played a major

role in the planning and implementation of the Fall and Spring meetings and field trips of the New Mexico Geological Society. Several UNM-Geology Faculty presented lectures and in other ways helped the Albuquerque Geological Society (a branch of the American Association of Petroleum Geologists). Some faculty of the Geology Department assisted in the meetings of the American Association for the Advancement of Science-Southwestern and Rocky Mountain Section and of the New Mexico Institute of Chemists as well as the UNM Chapter of the Sigma Xi. This past year also saw even greater expansion of collaborative efforts between UNM-Geology and the Los Alamos Scientific Laboratory, Sandia Laboratories, Kirtland AFB, the Bureau of Land Management, the National Park Service, and with Industry. Several of our faculty continue their service on State energy agencies and/or review boards.

The following scientists (with their respective affiliations) visited the Geology Department to give talks and to consult with faculty and students:

1. Eugene A. Swinn, Program Chief, U.S. Geological Survey Oil and Gas Branch Sedimentation Program; Distinguished AAPG Lecturer
2. John M. Bird, Professor of Geology, Cornell University, Distinguished AAPG Lecturer
3. Donald B. McIntyre, Professor of Geology, Pomona College, Distinguished AAPG Lecturer
4. James M. Coleman, Director, Coastal Studies Institute, Louisiana State University, Distinguished AAPG Lecturer
5. Clyde H. Moore, Jr., Director, Applied Carbonate Research Group, Department of Geology, Louisiana State University, Distinguished AAPG Lecturer

6. W. G. Ernst, Professor, Department of Geology, UCLA;
Distinguished Sandia-UNM Colloquium Speaker
7. Celso B. Gomes, Instituto de Geosciencias, Univ. Sao Paulo,
Brazil
8. T. W. Gardner, Exxon Minerals Co., Albuquerque
9. Peter Lipman, U.S. Geological Survey
10. David Roddy, U.S. Geological Survey
11. John Eichelberger, Los Alamos Scientific Laboratory
12. John W. Hawley, New Mexico Bureau of Mines and Mineral Resources
13. Dennis W. Powers, Sandia Laboratories, Albuquerque
14. Robert E. Riecker, Los Alamos Scientific Laboratory
15. Robert Raymond, Los Alamos Scientific Laboratory
16. David Joy, Bell Laboratories, Murray Hill, New Jersey
17. Glen Swenumson, Continental Oil Company
18. J. C. Mercier, SUNY-Stony Brook, New York
19. K. Lorenz, Johannes Gutenberg, University of Mainz, Germany
20. Fred Oglesby, Cities Service, Tulsa, Oklahoma
21. Nikolai Sobolev, Distinguished Academician, U.S.S.R.
22. Eric A. Anderson, Shell Oil Co., Dallas, Texas
23. Clayton E. Olsen, Los Alamos Scientific Laboratory
24. James Hawkins, Scripps Inst. Oceanography, La Jolla, California
25. Harry Y. McSween, Jr., Department of Geology, University
of Tennessee
26. Wolfgang Wawersik, Sandia Laboratories, Albuquerque
27. Stanley E. Logan, Dept. Chem. Nuc. Engg., UNM

28. Dr. Mario Berbano, Dept. Chem. Nuc. Engg., UNM
29. Dr. Joseph Smyth, Los Alamos Scientific Laboratory
30. Robert Krogh, Los Alamos Scientific Laboratory

The following graduate students received financial support from the source(s) noted:

1. M. Ander, RA, ERB
2. J. Berkley, RA, NASA
3. R. Della Valle, RA, DOE/BFEC
4. T. Bornhorst, RA, ERB
5. E. Erb, RA, ERB
6. J. Gooding, RA, NASA
7. H. Holcombe, RA, ERB
8. R. Lewis, RA, ERB
9. W. Mansker, RA, NASA
10. H. Planner, RA, Sandia Labs
11. W. Riese, RA, DOE/BFEC
12. K. Affholter, RA, Battelle Pac. NW Labs
13. S. Anderson, TA (0.5 FTE), RA (0.5 FTE), NPS
14. J. Aubele, RA, USGS, ERB
15. J. Bruneau, RA, DOE/BFEC
16. J. Connolly, TA
17. C. Cook, TA
18. K. Emanuel, TA (0.5 FTE), RA (0.5 FTE), ERB
19. M. Fulp, RA, UNM-Geology
20. T. Gorham, TA

21. R. Hicks, RA, ERB
22. G. Huss, RA, NASA
23. P. Hutchinson, TA
24. T. Kasten, TA (0.5 FTE), RA (0.5 FTE), Los Alamos Sci. Lab.
25. K. Kietzke, RA, Sandia Labs
26. D. Krier, RA (0.5 FTE), USGS, ERB
27. R. Lawrence, RA (0.5 FTE), UNM-Geology, Sandia Labs
28. G. Lux, RA, NASA
29. T. McCormick, TA
30. M. Merrick, TA
31. R. Miller, RA (0.5 FTE), UNM-Geology, DOE/BFEC
32. C. Nelson, RA, BLM
33. R. Northrop, RA, UNM-Geology, ERB
34. C. Olsen, Los Alamos Sci. Lab (full time)
35. R. Padgett, TA
36. M. Parchman, TA
37. J. Potter, RA (0.25 FTE), Los Alamos Sci. Lab
38. R. Quintanar, RA, AGI, USGS
39. J. Register, RA, Sandia Labs
40. M. Register, RA, Sandia Labs
41. D. Reiter, TA
42. D. Rhodes, RA, Sandia Labs
43. J. Schultz, RA (0.5 FTE), ERB
44. G. Smith, RA (0.5 FTE), UNM-Geology
45. M. Steinpress, TA

46. C. Sullivan, RA, ERB
47. S. Wentworth, RA, NASA
48. R. Widdicombe, RA, Sandia Labs
49. C. Zimmerman, TA (0.5 FTE), RA (0.5 FTE) UNM-Geology
50. M. Vazzana, TA
51. S. Griffiths, RA, Sandia Labs
52. W. White, RA, NPS
53. A. Rolph, RA, UNM-Geology
54. J. Place, Gulf Minerals
55. D. Edwards, Ranchers Min. Expl.
56. D. Jones, Freeport Exploration
57. S. Ristorcelli, Western Nuc.
58. P. Longmire, RA, Los Alamos Sci. Lab
59. R. Warren, RA, USGS, ERB
60. A. Skeryanc, RA, Sandia Labs

Many of our Undergraduate and Graduate geology majors work on research projects and are paid on an hourly basis. In addition, some \$9,000 in scholarships was awarded as follows:

1. Leonard Scholarships (for undergraduates)

Bryan Chakoumakos	\$820
Paul Johnson	820
Eric Peterson	820
Todd Pink	820
Bruce Reid	820
Robert Gonzales	300

- | | |
|------------------|-----|
| Cassandra Hudson | 300 |
| Thomas Knutsen | 300 |
2. Combined Scholarships from Tenneco, Sun Oil, ARCO
- | | |
|--------------------|-------|
| Greg Smith | \$700 |
| Kathleen Affholter | 200 |
| James Gooding | 300 |
| Cassandra Hudson | 100 |
| Terry Kasten | 200 |
| Thomas Lehman | 300 |
| Robert Merker | 100 |
| Raphael Padgett | 200 |
| Doris Rhodes | 300 |
| Jerry Schultz | 300 |
| Martin Steinpress | 300 |
| Richard Warren | 300 |
| Charles Zimmerman | 300 |
3. Albuquerque Gem and Mineral Club Scholarships
- | | |
|-------------------|-------|
| Bryan Chakoumakos | \$128 |
| James Gooding | 128 |
4. Kelley Award (for outstanding field geology)
- | | |
|---------------|-------|
| Thomas Lehman | \$100 |
|---------------|-------|
5. Scholarships to attend the NMGS Fall Field Trip
- Robert Gonzales and Martin Steinpress, Los Alamos Geol. Soc.
- Jerry Schultz and Jim Connolly, N.M.G.S.
- Rich Della Valle, Anthony Skeranc, Peter Hutchinson, UNM-Geology

6. New Mexico Geological Society Scholarships

James Connolly	\$230
Duncan Edwards	170
Michael Fulp	200
Mark Parchman	220
Martin Steinpress	150
Charles Zimmerman	230

The Geology Museum and Meteorite Museum were visited by approximately 5,500 school children as well as by smaller groups of Cub and Boy Scouts, the Albuquerque Gem and Mineral Club, and others.

The Department's role in providing manpower to the States' mineral and energy and related needs was intensified during the past year. Special seminar courses in Coal Geology, Environmental Geology, Radioactive Waste Disposal, and Uranium Geology were offered. Plans are well underway to fund a position for a distinguished Petroleum Geologist; this is being handled by a non-profit organization, Energy Exploration Education, Inc., Frank D. Gorham, President, with UNM-Geology represented at present by Profs. Brookins and Woodward. Service to the greater Albuquerque area was maintained by the offering of courses through the Division of Continuing Education and summer school.

B. Significant Plans and Recommendations

Space vacated by the U.S. Geological Survey-Hydrology Branch in Northrop Hall (June 1976) has still not been renovated due to lack of funds. Some renovation will be undertaken during summer 1978. Space

continues to be a major problem and the Geology Department can easily justify use of all space in Northrop Hall (note: several office complexes are used by non-Geology groups on the second floor).

The Geology Department has continued to monitor and provide upkeep on the Harding Pegmatite which was donated to UNM by Dr. Arthur Montgomery. Several hundred students, rockhounds, geologists, etc. visited the famous pegmatite during the past year. Profs. Ewing, Brookins, Landis, Callender and their students have initiated research projects on the mine property. Plans to have the land transferred to UNM by an Act of Congress are pending.

C. Staff Information

Several well known geologists served as adjunct professors for the 1977-78 academic year. Mr. Ed Beaumont and Mr. John Shomaker offered a course in Coal Geology and Mr. Harold James offered a course in Environmental Geology; both courses were very well received. The Department of Geology is fortunate to have individuals of high caliber such as Beaumont, Shomaker and James available for the offering of such courses.

Ms. Bernice Swenson joined the staff as a part-time draftsman this past year. Mr. Kevin McNamara replaced Mr. Todd Pink as assistant thin section preparator to Mr. Jerry Gomez.

Dr. Kirtley F. Mather, Emeritus Professor of Geology of Harvard University and Adjunct Professor of Geology at UNM for the past few years, passed away in May 1978. Dr. Mather's contributions to the Geologic Profession and to Mankind are Internationally known and his passing leaves a void impossible to fill.

COMPARISON OF UNM GEOLOGY DEPARTMENT WITH
GEOSCIENCE DEPT. OF SISTER INSTITUTIONS

In Spring 1978 a Questionnaire (see Appendix) was sent to some seventy geoscience departments from other academic institutions. The purpose of this questionnaire was severalfold. An intent to gather data concerning quality (prerequisites, funding, publications), aspects of quantity (enrollment, total number of courses offered, faculty) and salaries was made. Questionnaires were sent to geology departments of similar size; thus many of the top twenty-one departments of the Roose and Anderson report (op. cit.) were not included because of their far greater size. It is our opinion that, based on various criteria such as number of faculty, advertisement of programs, publications, etc., that a more meaningful comparison could be made between the Geology Department at UNM and the geoscience departments of the seventy institutions selected. Of these fifty-four responded (Appendix). Below are some of the significant findings:

I. Total Number of Courses and Enrollments

A) Number of courses	X (n=54)	UNM-Geology
lower division	7.0	6
upper division	9.5	13
graduate	9.1	9
B) Enrollment	(X=49)	
lower division	800	1200
upper division	230	380
graduate	72	132
C) Full time faculty	(X=13)	15

The above data clearly show that UNM is significantly above the average in enrollment at all levels and that total number of courses offered per semester is at the average for the other institutions at the Lower Division and Graduate Levels and above.

II. Teaching Commitment at the Freshman-Sophomore Level

We feel that in as much as possible that all faculty should teach at least one course per year at the freshman and/or sophomore level; and 14 of our 15 faculty do so* (Dr. Keil, Director of the Institute of Meteoritics, is exempt from this policy due to his major administrative, research and graduate-level teaching duties. Dr. Brookins teaches a 100-level course during the summer session.). We feel that in this fashion we stay fresh at all levels of geology, are in a position to attract students to geology, and that the lower division load is thus evenly distributed.

To our surprise we found that this policy is followed in only 22 of 52 reporting institutions.

III. Prerequisites

The summary of UNM-Geology Prerequisites and the average for the reporting outside institutions is as follows:

i) 2 semesters general chemistry	53/53
ii) 1 semester physical chemistry	5/53
iii) 3 semesters calculus	27/53
iv) 3 semesters physics	21/53
v) 1 semester statistics	17/53
vi) 1 semester computer science	9/53

It is extremely interesting to note that so few institutions require physical chemistry and computer science; it is surprising in this day and age of recognition of other sciences in support of the geosciences to note only 27, 21 and 17 (all of 53) institutions require as much physics, calculus and statistics as does the UNM-Geology Department. These data, again, reflect the strength of our program.

IV. Contracts and Grants and Publications

Many institutions did not report data for outside funding, publication information, and meaningful averages are therefore not available.

What is noteworthy are the following observations:

A) Only two institutions (VPI, U. Hawaii) exceed UNM-Geology in total dollar amount of contracts and grants. The number of faculty with outside support ratioed to total faculty for UNM-Geology and these two institutions are:

UNM:	14/15
VPI:	18/22
UH:	13/18

VPI and UH are active and widely recognized departments; these data show that UNM-Geology compares favorably with them.

- B) For those institutions reporting publication data, only the Univ. Michigan reports a total publication (152) record close to UNM (176). Yet the publications/faculty member/year for Michigan is 4 while the same ratio for UNM-Geology is 11.7. Of note is that all other institutions reporting in this area are below 4/yr. and most below 2.5/yr. It is safe to state that UNM-Geology has an enviable record of publications which reflect its strong research program. Of further note is that for 1976 twelve percent of UNM-Geology publications were authored or coauthored by Graduate Students.

- V. Geology as a prerequisite for biology, chemistry and physics majors is only a reality at four of the 54 institutions contacted yet 80 percent of the geoscience departments feel that geology should be a prerequisite for other science fields. In this day and age of energy, environment and resource evaluation and assessment it is the opinion of the UNM Geology Faculty that majors in other sciences should take at least one required course in geology.

VI. Salary Information

The data for salaries show that at all levels UNM Geology faculty are below the average for those schools commonly ranked on par with UNM (i.e., Nos. 4,6,7,9,14,15,17,18,19,22,23,24,25,26,27,29,30,34,41,53-salary data not available for all these institutions). The UNM Administration is fully aware of this inequity situation and has already (as of 4-15-78) taken some steps to remedy this situation. The Geology Department views this as a most positive step in rewarding excellence by merit pay increase; further, this should be an added incentive to strive for even greater goals.

VII. Final Comments on Questionnaire

It is very apparent that UNM-Geology is a quality department when compared with the institutions from which information was obtained. UNM-Geology prides itself on quality teaching and research and these factors are reflected in the tabulation of data. One must also remember that future plans call for formal programs with the Los Alamos Scientific Laboratory and with Sandia Laboratories, thus allowing UNM graduate (and some undergraduates) to make use of facilities at these well known laboratories and to work with distinguished scientists in their geoscience related divisions. In approximately two years we fully expect to formally advertise this information. At that time we will then test ourselves against all the top 54 institutions listed in the Rose and Anderson report (op. cit.).

Boston College
 Bowling Green State University
 Brooklyn College
 California State - Fullerton
 Case Western Reserve
 Colorado School of Mines
 Colorado University - Boulder
 Cornell University
 Florida State
 Hofstra University (New York)
 Indiana University
 Kent State University
 Lehigh University
 Louisiana State University
 Mackay School of Mines (University of Nevada)
 Oklahoma State University
 Oregon State University
 Queens College - CUNY
 Rensselaer Polytechnic Institute
 San Diego State
 San Jose State
 South Dakota School of Mines
 SUNY at Buffalo
 Syracuse University
 University of Akron
 University of California, Davis
 University of California, Riverside
 University of Cincinnati
 University of Connecticut
 University of Florida
 University of Georgia - Athens
 University of Hawaii
 University of Houston
 University of Idaho
 University of Iowa
 University of Kansas
 University of Kentucky
 University of Miami - Ohio
 University of Michigan
 University of Minnesota, Minneapolis
 University of Missouri - Columbia
 University of Montana
 University of North Dakota
 University of Oregon
 University of Pennsylvania
 University of Pittsburgh
 University of South Carolina
 University of Tulsa
 University of Virginia
 University of Washington
 University of Wisconsin - Madison
 Virginia Polytechnic Institute and State University
 Washington State University
 West Virginia University

Information Requested	Id. No. of Acad. Inst. No. of Faculty		12	13	14	15	16	17	18	19	20	21	22	23	24	25	2.
			8	12	14	9	10	7	19	21	12	10	19	15	13	13	
1. Lower Division Courses/Semester (enrollment)			3 (69)	8 (800)	6 -	12 (528)	5 (600)	20 (600)	18 (1017)	2 (640)	- (1000)	10 (1651)	10 (500)	10 (1200)	10 (800)	12 (374)	
2. Upper Division Courses/Semester (enrollment)			18 (464)	7 (100)	15 -	- --	15 (40)	- -	9 (135)	14 (305)	- (60)	10 (463)	5 (150)	10 (250)	10 (100)	13 (443)	
3. Graduate Courses/Semester (enrollment)			6 (60)	8 (60)	6 -	120 -	8 (40)	10 (50)	13 (75)	10 (101)	- (42)	8 (125)	10 (150)	20 (100)	5 (30)	6 (54)	
4. Do all Faculty Teach at least 1 F or So. Course/Yr?			Y	YY	N	Y	N	Y	N	N	Y	N	N	Y	Y	Y	
5. Prerequisites:			Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	
a) 2 Semesters Chem.																	
b) 1 Semester Phys. Chem.			N	N	N	N	N	N	N	N	N	N	N	N	N	N	
c) 3 Semesters Calculus			Y	N	Y	Y	N	Y	Y	N	N	N	N	Y	N	Y	
d) 3 Semesters Phys.			Y	N	N	N	N	Y	Y	N	N	Y	N	Y	N	Y	
e) 1 Semester Stat.			N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Only in Paleo.
f) 1 Semester Com. Sci.			N	N	Y	N	N	N	N	N	Y	N	N	N	N	N	
6. Total No. Grants/Contracts			-	12	21	-	13	6	22	23	10	14	9	12		8	
7. Total \$ amt. Grants/Contracts (in 10 ³ \$)			-	250	700	1126	-	300	1900	980	360.5	200	687	100	1000	125	
8. No. Faculty with outside Support			-	6	12	4	10	7	12	13	7	13	19	13	6	5	
9. Total Dept. Pubs./Yr.			-	.5	22	20	16	20	152	86	25	21	75	15	17	-	
10. Pubs./Faculty/Yr.			-	-	1.7	2.2	1.6	3	4	4	2	1.4	3.5	1	1.5	-	
11. Salaries (in 10 ³ \$)																	
a) Full Professors			25	24	27	25	24	30	25.7		23	22.2	25	30	29	22.3	
b) Assoc. Professors			19.7	16	20	20	18.3	20	20.8		18	16.8	20	25	22	18.5	
c) Asst. Professors			15.6	16	15.5	18	17	16	15.5		14	14	15	20	18	14	
12. How is geology viewed by Administration?			G	G	VG	G	F	G	G			F	F	F	F		
13. Is Geology a Prerequisite for Biol., Chem., Physics Majors? If not, should it be?			N	N	N	N	N	N	N	N	N	N	N	N	N	N	
			N	Y	Y	Y	N	Y		N	Y		Y	Y	Y		

Information Requested	Identification No.											
	of Acad. Inst. --- No. of Faculty ---	1	2	3	4	5	6	7	8	9	10	11
		9	21	8	13	12	21	14	9	9	11	16
1. Lower Division Courses/Semester (enrollment)		4 (200)	5 (750)	4 (350)	4 (750)	6 (300)	7 (700)	9 (590)	5 (1000)	8 (200)	6 (1000)	24 (880)
2. Upper Division Courses/Semester (enrollment)		5 (200)	8 (660)	7 (150)	5 (450)	20 (150)	20 (500)	12 (165)	6 (130)	8 (140)	5 (55)	17 (418)
3. Graduate Courses/Semester. (enrollment)		5 (120)	20 (250)	7 (70)	5 (60)	22 (75)	13 (86)	5 (50)	3 (30)	5 (45)	5 (55)	9 (123)
4. Do all Faculty teach at least 1 F or So. Course/year?		Y	N	Y	N	N	N	Y	Y	N	Y	N
5. Prerequisites:												
a) 2 Semesters Chem.		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
b) 1 Semester Phys. Chem.		Y	Y	Y	N	N	N	N	N	Y	N	N
c) 3 Semesters Calculus		Y	Y	Y	Y	N	Y	N	N	Y	N	N
d) 3 Semesters Phys.		N	N	N	Y	N	Y	N	N	N	Y	Y
e) 1 Semester Stat.		Y	Y	Y	N	Y	N	Y	N	N	N	Y
f) 1 Semester Com. Sci.		Y	Y	Y	N	N	N	N	Y	Y	N	N
6. Total No. Grants/Contracts		-	-	3	12	-	25	-	2	5	4	2
7. Total \$ amt. Grants/Contracts (in 10 ³ \$)		-	-	200	500	-	980	-	200	120	39	-
8. No. Faculty with outside Support		-	-	7	8	-	17	-	5	4	9	2
9. Total Dept. Pubs./Yr.		-	15	14	40	-	55	-	14	12	12	7
10. Pubs./Faculty/Yr.		-	0.7	1.7	3.0	-	3.0	-	1.6	1.2	1.0	0.4
11. Salaries (in 10 ³ \$)												
a) Full Professors		21	23	25+	23	28	29.9	-	24	29.5	24	-
b) Assoc. Professors		17	19	20+	19	23	16.9	-	20	19	17.5	-
c) Asst. Professors		15.5	15	18+	16.5	18	15.5	-	15	15	13	-
12. How is geology viewed by Administration?		-	G	VG	G	G	?	G	G	G	F	G
13. Is Geology a Prerequisite for Biol., Chem., Physics Majors? If not, should it be?		N Y	Y -	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N -

Information Requested	Id. No. of Acad. Inst. No. of Faculty		40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
			8.5	11	9	24.5	12	4	10	12	14	13	12	14	14	22	7
1. Lower Division Courses/Semester (enrollment)	7	4	5	2	12	3	19	15	11	6	3	5	6	3	5		
	(162)	(681)	(750)	(850)	(200)	(1200)	(3834)	(1634)	(735)	(350)	(640)	(283)	(828)	(300)			
2. Upper Division Courses/Semester (enrollment)	7	6	13	20	7	3	4	13	4	-	8	15	14	9	17		
	(60)	(340)	(400)	(110)	(30)	(50)	(218)	(136)	(372)	(150)	(230)	(150)	(352)	(240)			
3. Graduate Courses/Semester (enrollment)	10	5	19	21	7	-	6	11	20	-	8	4	18	7	8		
	(30)	(196)	(210)				(50)	(98)	(203)	(290)	(50)	(25)	(165)	(59)	(60)		
4. Do all Faculty Teach at least 1 Fr. or So. Course/yr?	N	N	N	N	N	Y	N	N	Y	N	-	Y	N	N	Y		
5. Prerequisites:																	
a) 2 Semesters Chem.	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
b) 1 Semester Phys. Chem.	N	N	Y		N	N	N	N	N	N	N	N	N	N	N		
c) 3 Semesters Calculus	N	Y	Y		Y	N	N	N	N	Y	Y	N	N	Y	Y		
d) 3 Semesters Phys.	N	N	Y		Y	N	N	N	N	N	Y	N	N	N	Y		
e) 1 Semester Stat.	N	N	Y		Y	N	N	N	N	N	N	N	Y	Y	N		
f) 1 Semester Com. Sci.	N	N	N		N	N	N	N	Y	N	N	N	Y	Y	N		
6. Total No. Grants/Contracts	10	15	-	-	-	-	3	5	-	6	-	6	3.5	18	-		
7. Total \$ amt. Grants/Contracts	3.2	523	--	1000	-	-	20	500	-	110	-	76	250	3.8	-		
8. No. Faculty with outside support	7	7	-	6.5	-	-	5	6	-	8	-	13	2.5	18	7		
9. Total Dept. Pubs./yr.	36	12	-	3212	-	-	5	10	-	13.5	-	25	-	-	-		
10. Pubs./Faculty/yr.	-	2	-	-	-	-	.5	1	-	1.1	-	1.5	.5	-	-		
11. Salaries (in 10 ³ \$)																	
a) Full Professors	29	25.4	23.5	32	21.1	24	26	21	-	26	32.5	24.3	23	32.1	22.6+		
b) Assoc. Professors	24	16.4	19.6	24	16.6	20	20	17	-	20	20.1	18.4	20	24	20		
c) Asst. Professors	15	13.4	-	16	13.2	16	16	14	-	16.5	17	15.7	18	18	16.4		
1w. How is Geology viewed by Admin?	G	G	G	VG	-	G	G	VG	G	F	P	-	P	G	-		
13. Is Geology a Prerequisite for Biol., Chem., Physics Majors?	N	N	N	N	-	N	N	N	N	N	N	N	N	N	N		
If not, should it be?	-	-	N	-	-	Y	N	-	N	Y	N	-	Y	N	Y		

Information Requested	<u>Id. No. of Acad. Inst.</u> <u>No. of Faculty</u>	26	27	28	29	30	31	32	33	34	35	36	37	38	39
		19	11	10	10.5	12	9	16	18	22	9	11	18	11	8.5
1. Lower Division Courses/Semester (enrollment)		7 (3000)	3 (1200)	4 (690)	4 (900)	7 (469)	4 (781)	8 (546)	8 (440)	-	3 (140)	6 (582)	3 (963)	8 (300)	3 (225)
2. Upper Division Courses/Semester (enrollment)		8 (400)	4 (900)	5 (100)	6 (60)	16 (211)	16 (214)	8 (74)	9 (130)	-	5 (90)	10 (119)	12 (219)	8 (300)	6 (80)
3. Graduate Courses/Semester (enrollment)		18 (180)	6 (300)	11 (70)	6 (30)	16 (72)	0	24 (84)	15 (95)	-	4 (38)	4 (39)	12 (196)	5 (60)	5 (38)
4. Do all Faculty Teach at least 1 Fr. or So. Course/yr?		N	N	N	Y	N	N		N	Y	Y	Y	N	N	N
5. Prerequisites:															
a) 2 Semesters Chem.		Y	Y	Y	Y	Y	Y		Y	Y	Y	N	Y	Y	Y
b) 1 Semester Phys. Chem.		Y	N	N	N	N	N	N	N	Y	N	N	N	N	N
c) 3 Semesters Calculus		Y	N	Y	Y	N	N	Y	N	Y	Y	N	N	N	Y
d) 3 Semesters Phys.		N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N	N	N
e) 1 Semester Stat.		Y	N	Y	Y	N	N	N	N	N	N	N	N	Y	N
f) 1 Semester Com. Sci.		N	N	Y	Y	N	N	N	Y	N	N	N	N	Y	N
6. Total No. Grants/Contracts		19	9	9	0	22	2	6	-	-	3.5	5	65	14	4
7. Total \$ amt. Grants/Contracts		900	200	560	0	-	100	735.3	2400	1000	-	19.3	2336	250	500
8. No. Faculty with outside support.		15	5	7	6	12	5	11	13	19	6	3	18	11	-
9. Total Dept. Pubs./yr.		40	30	15	25	46	7	21	21	45	12	11	50	6	11
10. Pubs./Faculty/yr.		2.5	3	2	2	4	2.5	1.5	1.5	2.5	1.5	-	2.8	.5	1.5
11. Salaries (in 10 ³ \$)															
a) Full Professors		27	24	27.5	25.3	-	22		31	-	27	24.9	26.7	22.5	21
b) Assoc. Professors		19	17	21.7	18.4	-	18	-	24	-	21	20.9	19.6	17.7	-
c) Asst. Professors		15.5	0	18.	16.6	-	15	-	18	-	14	0	15.6	14.9	15.6
12. How is Geology viewed by Admin?		-	F	-	F	G	G	F	-	VG	G	G	G	VG	F
13. I Geology a Prerequisite for Biol., Chem., Physics Majors?		N	N	Y	N	N	N	N	N	N	N	N	N	N	N
If not, should it be?		Y	Y	Y	N	N	N	Y	N	-	N	Y	N	N	Y

COOPERATIVE PROGRAMS WITH OTHER UNM DEPARTMENTS AND WITH FEDERAL (AND FEDERALLY SUPPORTED) LABORATORIES

The personnel of the Geology Department cooperate on formal and informal programs at UNM. Formal programs exist between Geology and the Department of Civil Engineering and plans are underway to implement a formal program with the Department of Chemical and Nuclear Engineering. The program with Civil Engineering, in part integrated with the Technology Applications Center, is designed to train students in problems of urban geology and other aspects of environmental geology including photogeologic interpretation. The intended program with Chemical and Nuclear Engineering is an outgrowth of informal cooperative and collaborative efforts between the two departments, with special emphasis on radioactive waste disposal and the natural radiation environment.

Dr. William Gross, Dean, College of Engineering, and Geology (D. Brookins) are in the planning stage for cooperative programs in petroleum engineering and engineering geology. The first of these programs will integrate the efforts of an off-campus, non-profit group; Energy Exploration Education, Inc. whose mission is to solicit funding for the continued assurance of course offerings in petroleum geology and related fields. Mr. Frank D. Gorham, President of Questa Petroleum and an Adjunct Geology Faculty Member, is President of EEEL and Geology is represented by Professors Brookins and Woodward. To date some \$ 26,000 has been raised to be used to attract a distinguished petroleum geologist to UNM to offer courses, advise students, and integrate efforts with the College of Engineering. No individual has yet been appointed, however, for the 1978-79 academic year.

Informal cooperation with other UNM departments lies primarily in joint research efforts. Geology has ongoing research efforts with personnel from the Departments of Anthropology, Biology and Chemistry.

Similarly, ongoing research programs between UNM-Geology and Eastern New Mexico University, the New Mexico Institute of Mining and Metallurgy, and the New Mexico State University have proven to be both beneficial to the State and Institutions as well as to strengthen already good ties between UNM and sister institutions.

Cooperative research programs with the Los Alamos Scientific Laboratory (LASL) and the Sandia Laboratories, Albuquerque (SLA) are already in existence. These programs include specific projects involving several aspects of radioactive waste disposal (i.e. site selection, feasibility studies, geochemical transport, canister materials research, isotopic studies, natural fission reactors), rock mechanics, geothermal energy (site evaluation, geochemistry, hot water-rock interactions), analytical methods (instrumental and delayed neutron activation analysis, x-ray fluorescence, scanning electron microscopy), and basic research.

Further, several Geology faculty have taught at LASL through the LASL-UNM Graduate Center (Professors Brookins, Ewing, Landis, Taylor, Callender, Jiracek) and several LASL Personnel have/will teach in joint programs in 1979-1980. Drs. Robert Riecker, G-6 Group Leader, and Ronald Gooley, Assoc. Group Leader, G-6, and D. Brookins, UNM, are presently finalizing plans for new and continued teaching and research programs between UNM and LASL. Similarly, UNM-SLA joint teaching-research programs are anticipated by 1979-1980; work with SLA has to date involved primarily research although several UNM-Geology personnel have taught remedial geology courses at SLA and several SLA personnel have presented materials in Geology Departmental colloquia and seminars.

The UNM Geology is in a somewhat unique position relative to other geoscience departments due to these associations with LASL and SLA. Joint teaching and research benefit UNM and either LASL and/or SLA in that UNM

personnel. The joint programs have reached the point where UNM input in building and calibrating equipment is not only a valuable training experience it allows LASL or SLA to more expeditiously carry out their missions. Finally, when one remembers that the combined geoscientist personnel at LASL and SLA number some 150 then this, in turn, offers to UNM students and faculty a chance for very high quality training and research which otherwise would not be possible. As an additional point, the U.S.D.O.E. and other agencies are stressing the need for closer ties between academic institutions and federally supported laboratories; the UNM-LASL-SLA combined efforts represent a strong step in meeting this need.

II. Composite of Individual Biographical Supplement

1. Advanced Study

Jonathan F. Callender: NATO Advanced Study Institute, Oslo, Norway, July-August, 1977.

2. Travels

Douglas G. Brookins: Amer. Geophys. Union, Washington, D.C.; Amer. Assoc. Petrol. Geol., Washington, D.C.; Geol. Soc. America, Seattle, Washington; Amer. Assoc. Adv. Science, Denver; 2nd Ann. Symp. on Uranium Deposits, Grand Junction, Colorado; 31st Ann. Mtg. of National Council for Adv. of Research, Albuquerque, NM; 2nd Int. Conf. on the Oklo (fossil nuclear reactor) Phenomenon, Paris, France; 2nd Int. Conf. on Kimberlites, Santa Fe, NM; Geothermal Workshop - CCMS: NATO, Los Alamos, NM; Rocky Mountain AAPG, Denver, CO; South-central Geol. Soc. Amer., El Paso, TX.

Jonathan F. Callender: Scandanavia, particularly Norway, to attend international conference on world rifts and to do field work; Seattle, Washington, to present paper to Geological Society of America national meeting; Myrtle Beach, S.C., to attend Sigma Xi national meeting; Pasadena, Calif., to attend geology symposium at Caltech; field work in California Coast Ranges, Brooks Range, Alaska, and northern New Mexico; field trip for UNM students to southern and central California; consulting, Los Alamos, NM, and Los Angeles, California; and New Mexico Geol. Society field conference, northwestern New Mexico and southwestern Colorado.

Wolfgang E. Elston: Visiting lecturer, UNM German Summer School at Taos, June 21-22, 1977. Lectures (in German) on "Alfred Wegener's Kontinentalverschiebungstheorie" (Alfred Wegener's Theory of Continental

Drift) and "Karl May, der deutsche Schriftsteller des Wilden Westens" (Karl May, German author of the Wild West) and geologic field trips; geologic field work in Animas Mountains, southwestern New Mexico, January 1977, Peloncillo Mountains, June-July 1977; travel to Denmark, Norway, Great Britain, July-August 1977.

Rodney C. Ewing: Research appointment by Northwest College and University Association for Science to Battelle Laboratories, Richland, Washington (May 15-June 30); travel in Germany, Switzerland, France, Belgium, Holland and England (July 4-Aug. 8).

Raymond V. Ingersoll: Travel to central and northern California for field work, May-June; travel throughout northern New Mexico for field work, summer.

Klaus Keil:

1. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U. S. Viking Mission to Mars, Jan. 13-14, 1977.
2. Grants, New Mexico. Talk on the "Geology of Mars: The U.S. Viking Missions" to the AIME, Jan. 15, 1977.
3. Houston, Texas. Chaired meeting of the Lunar Sample Analysis Planning Team, Johnson Space Center, Jan. 26-30, 1977.
4. Washington, D.C. Participated in meeting of the Lunar and Planetary Council, Universities Research Association, Feb. 17-18, 1977.
5. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, March 1-2, 1977.
6. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, March 11-13, 1977.

7. Santa Fe, New Mexico. Presented talk on "The U.S. Viking Missions to Mars", The American Society of Mechanical Engineers, New Mexico Section, Feb. 4, 1977.
8. Houston, Texas. Attended Lunar Science Conference and co-authored three talks, Johnson Space Center, March 14-17, 1977.
9. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, April 18-20, 1977.
10. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, April 27-May 1, 1977.
11. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Houston, Texas, June 17-20, 1977.
12. Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.
13. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, July 10-22, 1977.
14. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Sept. 8-11, 1977.
15. Sao Paulo, Brazil. Research on Brazilian meteorites and nuclear waste disposal in the Institute of Geology, University of Sao Paulo, Sept. 26-Oct. 14, 1977.
16. Vancouver, British Columbia, Canada. Invited Keynote Speaker at the "Science Spectrum '77", University of British Columbia, Nov. 4-6, 1977.

17. Seattle, Washington. Attended Geological Society of America Annual Meeting and served as Citation Speaker to award the Roebling Medal of the Mineralogical Society of America to Prof. R. Castaing, University of Paris at Orsay, France, Nov. 7-8, 1977.
18. Meteorite Crater and San Francisco Volcanic Field, Arizona. Lead field trip for my students in course #513 & 513L. (Meteoritics and Cosmochemistry). Nov. 11-13, 1977.
19. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Nov. 17-20, 1977.
20. Houston, Texas. Attended meeting on Luna 24 Russian returned lunar samples, and co-authored 4 papers. Lunar Science Institute. Dec. 1-3, 1977.
21. Moffett Field, California. Meeting of the Lunar and Planetary Science Council, Universities Space Research Association, NASA Ames Research Center, Dec. 3-10, 1977.

Albert M. Kudo: Travel to Toronto, Ontario, Canada; San Francisco, CA; Denver, CO; Los Angeles, CA.

Gary P. Landis: invited participant, Gordon Research Conference, "Inorganic Geochemistry of Ore Deposits", Andover, N.H., July 10-15, 1977; Two guest lectures, Univ. Minnesota, Dept. Geol. Geophys. (Feb.); Geochem. Econ. Geol. sessions teaching, "Fundamentals of Earth Science" Sandia Labs - Spring '77; teaching Geol. 410, LASL Graduate Center, Spring '77); visit Yale Univ., July '77.

3. New scholastic honors, fellowships, etc.

Douglas G. Brookins: Included in Who's Who in the West, Internat. Biog. Dictionary, Community Leaders of America; Chairman, N. M. Inst. Chem. Honors Schroll Comm.

Jonathan F. Callender: Presidential Commendation for Teaching;
promoted to Associate Professor.

Wolfgang E. Elston: Elected to Society of Economic Geologists.

Rodney C. Ewing: NORCUS Fellowship, Battelle Laboratories,
Richland, Washington (May 15 - June 30).

Raymond V. Ingersoll: Elected to membership in Sigma Xi.

Klaus Keil:

1. Secretary, Commission on Meteorites, International Union of Sciences.
2. Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association.
3. Secretary, International Association for Geochemistry and Cosmochemistry.
4. Chairman, Leonard Medal Committee, Meteoritical Society.
5. Member, Editorial Board, Journal "Chemical Geology".
6. Member, Surface Sampler Team, Viking Mars Mission.
7. Vice-Chairman, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas.
8. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado.
9. Visiting Associate in Geochemistry, Division of Geological and Planetary Science, California Institute of Technology, Pasadena, California.
10. Member, Viking Flight Team, Jet Propulsion Laboratory, Pasadena, California.
11. Received the National Aeronautics and Space Administration (NASA) Exceptional Scientific Achievement Medal.
12. Member, Lunar and Planetary Science Council, Universities Space Research Association, Houston, Texas.

13. Theodore von Karman Award of the Air Force Association, collectively to the entire Viking Team.
14. Honorary Research Associate, Department of Mineral Sciences, American Museum of Natural History, New York, N.Y.
15. Invited Keynote Speaker, Science Spectrum 1977, University of British Columbia, Vancouver, B.C., Canada.

Barry S. Kues: Elected to Society of Vertebrate Paleontologists.

Stephen G. Wells: Summer Fellowship & Certificate of Participation - Summer Faculty Program; U.S. Air Force & American Society for Engineering Education - Summer, 1977.

4. Publications

Roger Y. Anderson:

Anderson, R. Y., Short term sedimentation response in lakes in western United States as measured by automated sampling: *Limnology and Oceanography*, v. 22, no. 3, p. 423-433, 1977.

Anderson, R. Y., Kietzke, K. K., and Rhodes, D., Development of dissolution breccias, northern Delaware basin, New Mexico and Texas: New Mexico Bur. Mines and Mineral Resources Circular 159, 10 ms p., 7 figs, (1978).

Anderson, R. Y., and Powers, D. W., Salt anticlines in the Castile-Salado evaporite sequence, northern Delaware basin, New Mexico: New Mexico Bur. Mines and Mineral Resources Circular 159, 14 ms p., 6 figs. (1978).

Dean, W. E., and Anderson, R. Y., Salinity cycles - Evidence for subaqueous deposition of the Castile Formation and lower part of the Salado Formation, Delaware basin, Texas and New Mexico: New Mexico Bur. Mines and Mineral Resources Circular 159, 21 ms p., 3 figs., (1978).

Anderson, R. Y., A remote sampling approach to the investigation of geologic and climatic processes: National Science Foundation, Final Report, Grant EAR74-7517499, 16 figs., 35 p., 1977.

Douglas G. Brookins:

Brookins, D. G., Preliminary Eh-pH diagrams for Mo, Tc, Ru, Rh, Pd, Ag, Cd, Te, Bi, Np: application to fissiogenic element migration and retention at Oklo: *Amer. Assoc. Adv. Sci. Proc.*, 1977 Am. Mtg. Prog.

- Brookins, D. G., Rare earth and other trace elements as prospecting guides in the Grants Mineral Belt, New Mexico: Amer. Assoc. Petrol. Geol. Bull., v. 61, p. 612, Co-authors: W. C. Riese and M. J. Lee, 1977.
- Brookins, D. G., K-Ar ages for clay and silt-size fractions of uranium ore from the Grants Mineral Belt, New Mexico: Isochron/West, n. 18, p. 17-19, co-authors: M. J. Lee and M. Shafiquillah, 1977.
- Brookins, D. G., Rubidium-strontium geochronologic investigation of the Zuni Mountains, New Mexico: Geol. Soc. Amer., v. 9, p. 9, co-authors: R. S. Della Valle, and M. J. Lee, 1977.
- Brookins, D. G., Favorable criteria for radioactive waste disposal sites in shales based on geological, geochemical and theoretical study of the Oklo Uranium Mine, Gabon: Amer. Assoc. Petrol. Geol. Bull., v. 61, p. 771-772, 1977.
- Brookins, D. G., Results of the pilot studies of Project NURE from New Mexico: the Estancia Basin and an Area northeast of the Grants Mineral Belt: Amer. Assoc. Petrol. Geol. Bull., v. 61, p. 772, co-author: C. E. Olsen, 1977.
- Brookins, D. G., Characterization of Coal by Laser Pyrolysis Gas Chromatography: Anal. Chem. v. 49, p. 390-395, co-authors: R. L. Hanson and N. E. Vanderborgh, 1977.
- Brookins, D. G., Petrogenesis of the Glastonbury Gneiss Massachusetts and Connecticut: EOS Trans. Amer. Geophys. Un., v. 58, p. 530-531, co-author: G. W. Leo, 1977.
- Brookins, D. G., Upper Cretaceous Black Sand Deposits of the San Juan Basin: N.M. Geol. Soc. 28th Gdbk., (in press), supplement, p. 31-35, 1977.
- Brookins, D. G., Petrography and chemistry of the Faucett meteorite, Buchanan County, Missouri: Meteoritics, v. 12, p. 13-20, co-authors: E. A. King and E. Jaresowich, 1977.
- Brookins, D. G., Trace Elements as Possible Prospecting Tools for Uranium in the Southern San Juan Basin: N. M. Geol. Soc. 28th Gdbk. (in press), p. 263-270, co-authors: M. J. Lee and W. C. Riese, 1977.
- Brookins, D. G., A comparison of Rb-Sr systematics of granites from coastal Maine and from central New Mexico: EOS Trans. Amer. Geophys. Un., v. 58, p. 531, 1977.
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- Brookins, D. G., Uranium abundance in some Precambrian and Phanerozoic rocks from New Mexico: Rocky Mtn. Assoc. Geol. Gdbk., p. 353-362, co-author: R. S. Della Valle, 1977.

- Brookins, D. G., Prairie Creek Kimberlite, Murfreesboro, Pike County, Arkansas: Sec. Int. Kimb. Conf. Gdbk., 16, co-authors: H. O. A. Meyer, R. D. Lewis, and S. L. Bolivar, 1977.
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- Brookins, D. G., Subsurface stratigraphy of the Morrison Formation in the Mount Taylor area and its relation to uranium ore genesis: N. M. Geol. Soc. Gdbk., p. 271-277, co-author: W. C. Riese, 1977.
- Brookins, D. G., A learning module for uranium reserve estimation, exploration, mining, and milling: Rpt. to K.S.U., 95, 1977.
- Brookins, D. G., Scanning electron microscopy of uranium ores, Grants Mineral Belt, New Mexico: application to U:C:pyrite distribution: Geol. Soc. Amer. Prog. w. Abs., v. 9, n. 7, p. 1142, co-authors: W. C. Riese and M. J. Lee, 1977.
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- Brookins, D. G., Application of Eh-pH diagrams to problems of retention and/or migration of fissiogenic elements at Oklo: Int. At. Energy Agency Sym. Vol. 119, 1977.
- Brookins, D. G., Geochemical Genesis of Uranium in the Southern San Juan Basin: Uranium Geology Symposium Vol. GJO:BFEC-78, p. 10-28, 1977.
- Jonathan F. Callender:
- Callender, J. F., Strain-rate dependence in dolomite inferred from impact and static compression studies: J. Geophys. Research, v. 82, p. 1325-1333 (with D. E. Grady, R. E. Hollenback and K. W. Schuler), 1977.
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- Callender, J. F., Tectonic framework of San Juan basin: New Mexico Geol. Soc. Guidebook, 28th Field Conference, p. 209-212 (with L. A. Woodward), 1977.

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Callender, J. F., Structural petrology of undeformed and experimentally deformed polycrystalline halite from U.S.E.R.D.A. sites #7 and #9, Carlsbad, New Mexico: Geol. Soc. America, Abs. with Programs, v. 9, p. 918-919 (with T. Ingwell and W. R. Wawersik), 1977.

Callender, J. F., Structural petrology of undeformed and experimentally deformed halite samples from U.S.E.R.D.A. sites #7 and #9: Sandia Laboratories research report, 160 p., 1977.

Wolfgang E. Elston:

Elston, W. E., "Cenozoic Volcano-Tectonic Setting of KCM No. 1 Forest Federal Well, Animas Mountains, Hidalgo County, New Mexico:" New Mexico Bureau of Mines and Mineral Resources Circular 152, 1977, pp. 53-62. Co-author: Edward E. Erb.

Elston, W. E., Magnetic profiles of maar craters: anomalies and associated peripheral ring dikes: Nat. Aeronaut and Space Adm. Tech. Mem. TM X-3511, 1977, p. 122-125. Co-authors: Larry S. Crumpler and Jayne C. Aubele.

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Rodney C. Ewing:

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Ewing, R. C., "Thermal Metamorphism of Organic Matter in Drill Cuttings from KCM No. 1 Forest Federal Well, Hidalgo County, New Mexico," New Mexico Bureau of Mines and Mineral Resources Circular 152, pp. 49-51, 1977. Co-author: S. Thompson.

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Stephen P. Huestis:

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Raymond V. Ingersoll:

- Ingersoll, R. V., Rich, E. I., and Dickinson, W. R., Great Valley Sequence, Sacramento Valley: Geol. Soc. America, Cordilleran Section, Field-trip Guidebook, 1977, 72 p.
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Klaus Keil:

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- Clark, B. C., Baird, A. K., Rose, H. J., Toulmin, P., Keil, K., Castro, A., and Kelliher, W., Inorganic analyses of Martian surface samples by x-ray fluorescence spectrometry. Amer. Astronom. Soc., Div. Planet. Sci., 8th Ann. Meeting, Honolulu, V-28, 1977.
- Baird, A. K., Toulmin, P., Clark, B. C., Rose, H. J., Keil, K., and Gooding, J. L., Mineralogic-petrologic implications of Viking geochemical results from Mars: Interim report. Amer. Astronom. Soc., Div. Planet. Sci., 8th Ann. Meeting, Honolulu, V-29, 1977.
- Gomes, C. B., Keil, K., Jarosewich, E., and Curvello, W. S., Meteorito Itapicuru - Mirim, Maranhao. VIII Simp. de Geol. do Nordeste, Bol. Especial, Soc. Brasileira de Geologia, 31, 1977.

Gomes, C. B., Keil, K., Jarosewich, E., and Curvello, W. S., Meteorito Macau, Rio Grande do Norte. VIII Simp. de Geol. so Nordeste, Bol. Especial, Soc. Brasileira de Geologia, 32, 1977.

Keil, K., and Gomes, C. B., Meteorito Paranaíba, Mato Grosso: Uma revisao. Anais da Academia Brasileira de Ciencias, 1977.

Clark, B. C., Baird, A. K., Toulmin, P., Rose, H. J., and Keil, K., Chemical heterogeneity among soil and crust samples at the Viking landing sites. Abstract, Div. of Planet Sciences, Amer. Astronomical Soc., 9th Ann. Meeting, Boston, Mass., 1977.

Albert M. Kudo:

Kudo, A. M., K-Ar ages of basalt flows at Canjilon Hill, Isleta volcano, and the Cat Hills volcanic field, Albuquerque-Belen basin, Central New Mexico" *Isochron*/West, no. 18, 1977, p. 15-16.

One article in press.

Barry S. Kues:

Kues, B. S., "Survey of paleontology and paleontological resource assessment of Western Coal and Public Service Company leased lands near Bisti, New Mexico", (1977), Report to Western Coal Company, Albuquerque, New Mexico, 89 p., (with J. W. Froehlich).

Kues, B. S., "Control of mudcrack patterns by the infaunal bivalve *Pseudocyrena*", (1977), *Jour. Sed. Petrology* v. 47, p. 844-848, (with C. T. Siemers).

Kues, B. S., "Osha Canyon Formation (Pennsylvanian), new Morrowan unit in North-Central New Mexico", (1977), *Amer. Assoc. Petrol. Geol. Bull.* 61, p. 1513-1524, (with H. R. DuChene, and L. A. Woodward).

Kues, B. S., "Paleontological survey, resource assessment, and mitigation plan for the Bisti-Star Lake area, northwestern New Mexico", (1977) Report to the Bureau of Land Management, Albuquerque, NM, 1525 p., (with J. W. Froehlich, Judith A. Schiebout and S. G. Lucas).

Kues, B. S., "Polyplacophorans from the Salem Limestone (Mississippian) of Central Indiana, *Jour. Paleontology*, in press.

Kues, B. S., "Approaches to Simultaneous Utilization of Economic and Paleontological Resources in the San Juan Basin of New Mexico", *Geotimes* (with J. A. Schiebout), in review.

Gary P. Landis:

Landis, G. P., Stable isotope geochemistry of selected GT-1 and GT-2 core samples, and of Jemez Water Samples: Preliminary report to LASL, 1977.

- Landis, G. P., Quartz-wolframite oxygen isotope geothermometry and implications for the geochemistry of tungsten hydrothermal transport and deposition: in preparation for *Geochimica et Cosmochimica Acta*.
- Landis, G. P., "Light Wolframite"; A correlation of wolframite density to H_2O and CO_2 content contained in fluid inclusions: in preparation for *American Mineralogist*.
- Landis, G. P., Obradovich, J., and Naser, C., 1976, Age of mineralization, Pasto Bueno Tungsten - Base metal ore deposit, Northern Peru; in preparation for *Economic Geology*.
- Landis, G. P., Fluid inclusion gas analysis and fluid chemistry, constraints on ore fluid chemistry, Pasto Bueno, Peru: in preparation for *Economic Geology* (possibly with D. Norman and C. Barker).
- Stephen G. Wells:
- Wells, S. G., "Hydrogeology of Large Karst Basins in the Pennyroyal Plateau of the Central Kentucky Karst": Karst Hydrology, A Symposium on Central Kentucky, W. B. White (ed.); Dowden, Hutchinson and Ross, Inc., 1977 (in press).
- Wells, S. G., "LANDSAT Imagery and Remote Sensing of Surficial Deposits in an Arid Basin of Southwestern Arizona," (in preparation), 1977.
- Wells, S. G., "Geomorphic Controls of Alluvial Fan Deposition in the Sonoran Desert, Southwestern Arizona," in *Geomorphology in Arid Regions*, proceedings of the 8th Annual Geomorphology Symposium, D. Doehring (ed.), p. 27-50, 1977.
- Wells, S. G., Annual Report of Cave Research Foundation submitted to National Park Service, Editor, 1977.
- Wells, S. G., "Geomorphic Framework of an Open Drainage Basin in the Basin and Range of Southwestern Arizona," (in preparation), to be submitted to GEOLOGY.
- Wells, S. G., "Fluvial Geomorphic Response to Groundwater Hydrology in Low Relief Karst," (in preparation), to be submitted to *Quarterly Bulletin of the National Speleological Society*.
- Wells, S. G., "Remote Sensing of Quaternary Deposits and Hydrologic Process in Arid Basins" (in preparation), to be submitted to Photogrammetric Engineering.
- Wells, S. G., "Neotectonism and Tectonic Geomorphology of the Animas Valley, Southwestern New Mexico," (in preparation with T. Pink), to be submitted to 1977 Field Guidebook of the New Mexico Geological Society.
- Wells, S. G., "Nature and Prediction of Secondary Calcium Carbonate Cementation (Caliche) in Alluvial Basins of the Southwestern United States," Final Technical Report, USAF-ASEE Summer Faculty Research Program, 42 pp, 1977.

Lee A. Woodward:

- Woodward, L. A., "Tectonics and development of northern part of Rio Grande rift, New Mexico and Colorado," Geol. Soc. America Abstracts with Programs, v. 9, no. 1, p. 81-82. Co-author: J. F. Callender, 1977.
- Woodward, L. A., "Rate of crustal extension across the Rio Grande rift near Albuquerque, New Mexico," Geology, v. 5, no. 5, p. 269-272, 1977.
- Woodward, L. A., "Geology of the Gilman quadrangle, New Mexico," New Mexico Bur. Mines and Mineral Resources, Geologic Map 45. Co-authors: H. R. DuChene and R. Martinez, 1977.
- Woodward, L. A., "Precambrian rocks of the northern part of the Nacimiento uplift, New Mexico," New Mexico Geol. Soc. 28th Guidebook, San Juan Basin III, p. 93-98. Co-authors: Douglas McLelland and J. W. Husler, 1977.
- Woodward, L. A., "Tectonic framework of the San Juan Basin," New Mexico Geol. Soc. 28th Guidebook, San Juan Basin III, p. 209-212. Co-author: J. F. Callender, 1977.
- Woodward, L. A., "Fracture permeability in Cretaceous rocks of the San Juan Basin," New Mexico Geol. 28th Guidebook, San Juan Basin III, p. 235-241. Co-authors: F. D. Gorham, Jr., J. F. Callender, and A. R. Greer, 1977.
- Woodward, L. A., "Second day road log from Red Mountain Oil Field to El Vado Lake via Pueblo Pintada, Star Lake, Torreon, Cuba and Llaves," New Mexico Geol. Soc. 28th Guidebook, San Juan Basin III, p. 19-38. Co-authors: J. E. Fassett, R. W. Black, C. M. Molenaar, 1977.
- Woodward, L. A., "Osha Canyon Formation (Pennsylvanian), new Morrowan unit in north-central New Mexico," Am. Assoc. Petroleum Geologists Bull., v. 61, p. 1513-1522. Co-authors: H. R. DuChene and B. S. Kues, 1977.

5. Other research projects or creative work in progress or completed during period.

Roger Y. Anderson:

Sandia Lab Research Grant - Climatic-solution history of the northern part of the Delaware basin (Los Medanos area), southeastern New Mexico: 14 months, \$20,924.58. Supplement grant for above: \$14,967.36.

Investigation of deep-ocean sedimentation by means of automated sampling. Cooperative project with U. S. Geological Survey to develop deep-ocean sediment traps.

Investigation of seasonal sedimentation in lakes by means of automated sampling. Studies of lakes in California, Nevada, and Washington.

Douglas G. Brookins:

Project NURE: water and stream sediment sampling in White Sands Missile Range, White Sands Ntl. Monument, Fort Bliss Military Res., adjacent area: (Los Alamos Scientific Laboratory; \$70,000; 10-1-76: 9-30-77).

Project NURE: water and stream sediments sampling in New Mexico; Fort Sumner, Albuquerque, and Socorro Sheets: (Los Alamos Scientific Lab; \$64,050; 10-1-77: 9-30-78).

Uranium, thorium, and potassium budget in the Zuni and Florida Mountains, New Mexico: (State Energy Resources Board; \$67,400; 8-15-77: 8-14-78).

Uranium Deposits of the Grants, NM Mineral Belt II: (Dept. of Energy -- Bendix Field Engineering Corp.; 10-1-76: 9-30-78; \$94,700).

Rb-Sr and other geochemical studies of the Los Medanos area, NM, for radioactive waste repository feasibility: (Sandia Laboratories; \$37,500; 10-1-76: 9-30-78).

Radioactive Waste Studies (Sandia Laboratories; \$7,000; 7-1-76: open).

Research on the Oklo (Fossil Nuclear Reactor) Uranium Deposit, Gabon: Collaborative study with Los Alamos Scientific Laboratory.

Research on geothermal project -- Dry Hot Rock Program: collaborative study with Los Alamos Scientific Laboratory.

Theoretical study of Eh-pH diagrams relative to uranium deposits and to radioactive waste repository sites (unfunded).

Geothermal Studies, New Mexico (joint U.S.G.S. -- N.M.E.R.B.; \$400,000; 1-1-75: 12-31-77 -- one of eight co-investigators).

Jonathan F. Callender:

Evaluation of geothermal potential of the Basin and Range Province of New Mexico: New Mexico Energy Research and Development Grant, 1/1/76 to 12/31/77, \$209,163 (2 yrs.) (with D. G. Brookins, W. E. Elston, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, and L. A. Woodward).

Fabric and permeability studies on undeformed and deformed rock salt: Sandia Laboratories Grant #D5-7442, 10/31/76 to 12/31/77, \$14,995.

Evaluation of geothermal potential of the Basin and Range Province of New Mexico: U. S. Geological Survey Extramural Geothermal Research Program Grant #14-08-0001-#-225, 7/1/75 to 6/30/77, \$290,689 (with D. G. Brookins, W. E. Elston, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, and L. A. Woodward).

PUBLICATIONS IN PROGRESS:

1978, Contact metamorphism near the Sandia pluton, central New Mexico:

Geol. Soc. America Bull. (with J. L. Berkley)

1978, The Rio Grande rift and its relation to models of evolution of Basin and Range Province: Geology (with R. Livaccari).

1978, Fabrics in undeformed and experimentally deformed halite: Geol.

Soc. America Bull. (with T. Ingwell).

1978, Melanges and their bearing on environments of subduction: Geology.

1978, ed., New Mexico Geological Society Guidebook to Southeastern Arizona, 29th Field Conference, 315 p.

1978, Geology of Albuquerque area; Albuquerque magazine.

1979, Structural evolution of the western edge of the Albuquerque basin, Rio Grande rift, New Mexico: Amer. Geophysical Union, Spec. Pub. on Rio Grande rift.

1979, Geology of the York Mountain area, central Coast Ranges, California: Geol. Soc. America Bull.

1979, Physical Geology textbook: Prentice-Hall, New York (with R. C. Ewing and S. G. Wells).

Wolfgang E. Elston:

Principal Investigator, NASA grant NGR-32-004-062, Supplement No. 8, \$1,000, Mars: Search for evidence of dynamic processes, duration: 2½ months.

Principal Investigator, NASA grant NGR-32-004-062, Supplement No. 9, \$22,050, Mars: Search for evidence of dynamic processes, January 1, 1977 to December 31, 1977.

Co-Investigator, New Mexico Energy Research and Development Program grant 76-350, \$51,250, Application of volcanology to petroleum exploration in southwestern New Mexico, March 1, 1977 to February 28, 1978. Co-investigator: Samuel Thompson III, N. Mex. Bureau of Mines and Mineral Resources.

Co-Investigator, U. S. Geological Survey Extramural Geothermal Program Grant 14-09-001-G-348, \$132,619, Evaluation of geothermal potential of the Basin and Range province of New Mexico, July 1976-June 1977.

Co-investigators: D. G. Brookins, J. F. Callender, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, L. A. Woodward.

Co-Investigator, New Mexico Energy Research and Development Program Grant 76-264, \$103,235, Evaluation of geothermal potential of the Basin and Range province of New Mexico, January 1, 1977 to December 31, 1977.

Co-investigators: D. G. Brookins, J. F. Callender, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, L. A. Woodward.

No-cost extension granted: Principal Investigator, NASA grant NGL-32-004-011, Supplement 3, \$35,000, Volcanological approach to the interpretation of lunar features, June 1, 1977 to June 30, 1978.

Negotiated support for one graduate student by U. S. Geological Survey Minorities Participation Program, November 1977 to August 1978, \$6,500.

Un-sponsored research: world-wide compilation of distribution of ring complexes and related subvolcanic features.

Publications in press:

Elston, W. E., in press, Geologic map of the Cebrenia quadrangle of Mars:

U. S. Geol. Survey Geol. Atlas of Mars, 1:5,000,000 Geol. Series, Misc. Inv. Map (MC-7).

Elston, W. E., in press, Rifting and volcanism of the New Mexico segment of the Basin and Range province, southwestern U.S.A.: in Petrology and Geochemistry of Continental Rifts, E. R. Neumann and B. Larsen (editors): D. Reidel Publishing Co., Dordrecht, Netherlands.

Elston, W. E. and Erb, E. E., submitted, Ring complexes: in Encyclopedia of Volcanoes and Volcanology (Jack Green, editor): Encyclopedia of Earth Sciences, v. 16, Dowden, Hutchinson, and Ross, Stroudsburg, Pa.

Brookins, D. G., Crumpler, L. S., and Elston, W. E., in press, Strontium isotope initial ratios from the Mount Taylor volcanic field, New Mexico: Isochron/West.

Brookins, D. G., Eppler, Dean, and Elston, W. E., in press, Strontium isotope initial ratios from the San Antonio Mountain area, New Mexico: Isochron/West.

Deal, E. G. and Elston, W. E., submitted, Geology of the Lightning Dock
KGRA and vicinity, Pyramid Mountains and Animas Valley, Hidalgo
County, New Mexico: U.S. Geol. Survey open-file report.

Deal, E. G. and Elston, W. E., submitted, Geologic map of the Pyramid Peak,
South Pyramid Peak, Swallowfork Peak and Tabletop Mountain 7½-minute
quadrangles, 1:24,000, U. S. Geol. Survey open-file report.

Rodney C. Ewing:

Study of the relationships of the texture, fabric and composition of
fine-grained terrigenous sediments and sedimentary rocks to the occurrence
of and exploration for oil and gas. Supported by Sandia Laboratories
(July 1, 1976 to Sept. 30, 1977) \$25,000.

Geologic Materials: Implications for Radioactive Waste Disposal.
Supported by Battelle Laboratories, PNL (Oct. 1, 1977 to Sept. 30, 1978).
\$35,000.

Metamict state and radiation damage in natural materials: unsupported

Mineralogy of Nb-Ta-Ti oxides: unsupported

Effects of thermal metamorphism on organic compounds: unsupported

Mineralogy of pegmatites: unsupported

Stephen P. Huestis:

In progress: "Upward and downward continuation of potential
fields by the Backus-Gilbert method."

Raymond V. Ingersoll:

Title: Evolution of the Late Jurassic-Early Cretaceous fore-arc
basin of northern California. Duration: 2/11/77 - 6/15/78. Amount:
\$1,249.00. Funding source: Research Allocations Committee, Univ. of
New Mexico.

Title: Sandstone petrofacies and provenance of the Santa Fe Group and tectonic evolution of the Rio Grande Rift, New Mexico. Duration: 6/1/78 - 8/31/80. Amount: \$10,000.00. Funding source: American Chemical Society, Petroleum Research Fund.

PUBLICATIONS IN PROGRESS:

- Ingersoll, R. V., 1978, Petrofacies and petrologic evolution of the Late Cretaceous fore-arc basin, northern and central California: Jour. Geology, v. 86, in press.
- Ingersoll, R. V., 1978, Paleogeography and paleotectonics of the late Mesozoic fore-arc basin of northern and central California: Pac. Section, Soc. Econ. Paleontologists and Mineralogists, Mesozoic symposium volume, in press.
- Smith, G. W., and Ingersoll, R. V., 1978, The Cambria slab, San Luis Obispo County, California: a Late Cretaceous trench slope basin deposit: Geol. Soc. America Abs. with Programs, v. 10, in press.
- Ingersoll, R. V., 1978, Submarine fan facies of the Upper Cretaceous Great Valley Sequence, northern and central California: Sedimentary Geology, in press.
- Dickinson, W. R., and Ingersoll, R. V., 1978, Plate Tectonic evolution of Sacramento Valley, California: Pac. Section, Am. Assoc. Petroleum Geologists, Annual Meeting Program, in press.
- Rich, E. I., Ingersoll, R. V., and Dickinson, W. R., 1978, Guidebook and roadlog from Sacramento to Coast Ranges, California: Geol. Soc. Sacramento, in press.
- Ingersoll, R. V., in press, Evolution of the Late Cretaceous fore-arc basin, northern and central California: Geol. Soc. America Bull.

Ingersoll, R. V., and Suczek, C. A., in prep., Petrology and provenance of Neogene sand from the Nicobar and Bengal fans, DSDP sites 211 and 218: To be submitted to Jour. Sed. Petrology.

Laniz, R. V., and Ingersoll, R. V., in prep., A new method of staining for plagioclase feldspar: To be submitted to Jour. Sed. Petrology.

Dickinson, W. R., Ingersoll, R. V., and Graham, S. A., in prep., Paleogene sediment dispersal and paleotectonics in northern and central California: Geol. Soc. America Spec. Paper.

Continuing work on circum-Pacific arc-trench systems.

Research on sandstone petrology of Paleozoic, Mesozoic and Cenozoic sandstones of New Mexico.

Klaus Keil:

Research Grant from NASA Langley Research Center, Hampton, Virginia, entitled "X-ray fluorescence analysis of Martian soil during the 1975-1976 U.S. Viking Unmanned Landing on Mars." July 1, 1972 - March 31, 1977 75,464.00

Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1974 - Jan 31, 1977. 165,436.00

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of polymict-brecciated stone meteorites." June 1, 1974 - May 31, 1977. 91,475.00

Research Grant from NASA Headquarters, Washington, D.C., entitled Mineralogy, petrology and chemistry of brecciated stone meteorites: Impact and igneous histories of meteorite parent bodies." June 1, 1975 - Feb. 29, 1978. 78,700.00

Research Grant from NASA L. B. Johnson Space Center,
Houston, Texas, entitled "Electron microprobe analysis of
returned lunar samples." Feb. 1, 1975 - Jan. 31, 1978. 184,772.00

Research Grant from NASA Headquarters, Washington,
D.C., entitled "Mineralogy, petrology, and chemistry of
brecciated stone meteorites." Mar. 1, 1976 - Feb. 28,
1979. 153,490.00

Research Grant from NASA Headquarters, Washington,
D.C., entitled "Mineralogy, petrology, and chemistry of
brecciated stone meteorites". Mar. 1, 1976 - Feb. 28,
1978. 67,041.00

Research Grant from NASA L. B. Johnson Space
Center, Houston, Texas, entitled: "Electron microprobe
analysis of returned lunar samples." Mar. 1, 1976 -
Jan. 31, 1979. 184,500.00

Research Grant from NASA Langley Research Center,
Hampton, Virginia, entitled: "X-ray fluorescence
analysis of Martian soil via the Viking x-ray
fluorescence spectrometer, April 1, 1977 - June 30,
1979. 36,000.00

Research grant from NASA Headquarters, Washington,
D.C., "Mineralogy, petrology, and chemistry of brecciated
stone meteorites." Mar. 1, 1977 - Feb. 28, 1980. 153,380.00

Research grant from NASA L. B. Johnson Space
Center, Houston, Texas, entitled "Electron microprobe
analysis of returned lunar samples." Feb. 1, 1977 -
Jan. 31, 1980. 185,548.00

Research contract with Sandia Laboratories, Albuquerque,
N. M., entitled "Technical services with steam - explosion
experimental program." Oct. 1, 1977 - Sept. 30, 1978. 10,741.00

Total grants in effect 1,386,547.00

Albert M. Kudo:

Work on Geothermal Grants (USGS and NMERDP) -- Grants to end this
year.

Two papers in preparation for publication.

Initiated work on Petrology textbook.

Work on Uranium in volcanic rocks initiated.

Submitted proposal to the National Science Foundation (good reviews,
but no funding).

Barry S. Kues:

Fossils as Resources; an inquiry into the effects of land use and
land protection on fossils in the U. S.

Invertebrate fauna of the uppermost Pennsylvanian Red Tanks Member,
Madera Formation, in central New Mexico. Part I. Gastropods and
Scaphopods.

Paleontology and stratigraphy of the Oketo Shale Member (Barneston
Limestone), Lower Permian, of Kansas and Nebraska.

The geobiologic significance of the echinoid Echinometra as an
agent of bioerosion in the southern Florida Keys (with C. T. Siemers).

A diverse Desmoinesian (Pennsylvanian) gastropod assemblage from
the Sangre de Cristo Mountains, north central New Mexico.

A new Upper Pennsylvanian eurypterid from the Lucero Uplift,
central New Mexico (with K. Kietzke).

Studies of brachiopods, bivalves, and cephalopods of the Red
Tanks Member, Madera Formation.

Paleontological Resource Assessment and Environmental Impact Study of the San Juan Basin of New Mexico. Funded by U. S. Bureau of Land Management, \$83,000. (with J. W. Froehlich)

Texture, fabric, and composition of fine grained sedimentary rocks in New Mexico. Funded by S.U.R.P., \$25,000 (with R. C. Ewing)

Gary P. Landis:

A new technique for fluorination of oxygen isotope samples using specially purified fluorine gas. (Completed Fall, 1977).

Geochemistry of sedimentary uranium deposits; systematics of sulfur, carbon, and oxygen isotopes as further evidence for chemical conditions of uranium transport and deposition indicated by clay mineral equilibria (in preliminary stage with D. G. Brookins)

Fluid inclusion and stable isotope studies of the Harding Pegmatite, Picuris Range, New Mexico; with L. Cook (M.S.)

Carbon and oxygen isotope studies of contact metamorphism effects on potential petroleum reservoirs, a possible exploration tool (preliminary stage of study completed Spring, 1977).

Evolution of volcanic caldera: an in-depth study of water-magma interaction and of modeling physical and chemical mechanisms. This work is a logical extension to 25 years of work in the Mogollon-Datil volcanic rocks of New Mexico by W. E. Elston and his students. NSF support will be requested for this work.

Geochemistry as it pertains to nuclear waste disposal site selection and evaluation, Eddy County, New Mexico; science advisory panel and consultant for Sandia Laboratories (ERDA).

Metamorphic fluids; a case history from the Placitas - Juan Tabo contact metamorphic aureole, Sandia Mountains of New Mexico, with

J. L. Berkley, J. F. Callender, and K. Keil. A comprehensive examination of metamorphic reactions, phase equilibria, trace element and isotope partitioning during dynamothermal metamorphism (chlorite - biotite/andalusite - sillimanite/k-feldspar).

Geology and geochemistry of skarn mineralization at the San Pedro mine, San Pedro Mountains, New Mexico: Computer modeling of solution fluids based upon input from geologic, fluid inclusion, stable isotope, and other geochemical studies, with M. Fulp (MS-PhD).

Geology, ore petrography, and stable isotopes of the Precambrian Terrero massive sulfide orebody, Pecos, New Mexico; with W. D. Riesmeyer (MS).

Geology, mineralogy, and geochemistry of a Tertiary fossil - geothermal system of possible acid-sulfate vapor dominated character, Alum Mountain, Gila Wilderness, New Mexico; with H. R. Northrop (MS)

Orbicular granite textures in the Precambrian intrusion of the Sandia Mountains, New Mexico; stable isotope evidence for origin.

^{36}S distribution in natural and experimentally synthesized sulfide phases, an improved sulfur isotope geothermometer (technique using SF_6 and triple collecting $12^\circ\text{-}90^\circ$ RMS, additional instrumentation development is required.

Stephen G. Wells:

Earth Cycles, An Introduction to Physical Geology, (textbook).

Co-authors: R. Ewing, J. Callender.

National Park Service, U. S. Department of Interior; \$8,053; Geomorphic Effects of Recent Forest-fire Devegetation in Frijoles Canyon Watershed, Bandelier National Monument, New Mexico; 1 year.

UNM Research Allocations Committee; \$1,490; Hydrology of Evaporite Aquifers and Surficial Geology of Contributing Catchment Areas in Semi-Arid Karst, Eddy County, New Mexico; 1 year.

U. S. Air Force and Am. Soc. Eng. Ed.; Summer Faculty Program: Nature of Prediction of Caliche in Alluvial Valleys of the Southwestern U. S.: Summer, 1977.

Un-sponsored Research: Tectonic Geomorphology of the Animas Valley in Southwestern New Mexico.

Lee A. Woodward:

Grant for \$140,846 from U. S. Geol. Survey, July 1, 1976 to June 30, 1977. Grant #14-08-0001-G-348 "Evaluation of geothermal potential of the Basin and Range Province of New Mexico" (co-investigator).

Grant for \$103,235 from New Mexico Energy Resources Board for evaluation of geothermal potential of the Basin and Range Province of New Mexico (renewal); co-investigator.

6. Activities in learned and professional societies:

Roger Y. Anderson:

Presented paper on Dissolution breccias in the Delaware Basin at Salt Dissolution Review Meeting, Union Carbide Corp., March 29, 30, 1977, Austin, Texas.

Presented 3 papers (see list of publications for titles) at Symposia on the Ochoan Rocks of Southeastern New Mexico and West Texas, May 3-7, 1977, Carlsbad, New Mexico.

Attended Geol. Soc. America annual meeting, Seattle, Washington, November, 1977.

Member: Geol. Soc. America, AAAS.

Douglas G. Brookins:

Meetings - see Item 2. Papers presented at all meetings attended.

Nominating Committee, Amer. Geophys. Union

Honor Schroll Committee, NM Inst. Chem. (chairman, 1977-78)

Amer. Assoc. Adv. Sci. -- Southwestern & Rocky Mountain Section:
Local Arrangements Program Chairman, 1977-78.

Editorial Staff, Geology.

Editorial Staff, Colo. School Mines Bull.

Two seminars on Radioactive Waste Disposal (Geology Dept.).

Jonathan F. Callender:

President-elect, Sigma Xi, UNM Chapter

President, New Mexico Geological Society

Editor, New Mexico Geological Society

Attended Geol. Soc. America annual meeting and read paper, "Tectonics and development of northern part of Rio Grande rift, New Mexico and Colorado:" Geol. Soc. America, Abs. with Programs, v. 9, p. 81-82 (with L. A. Woodward).

Attended New Mexico Geol. Soc. Fall meeting and gave Presidential address.

Read paper, NATO Advanced Study Institute, Oslo, Norway, "Structural evolution of Rio Grande rift", July 27 - August 5, invited paper (oral).

Member, Steering Committee, Conference on Rio Grande rift and world rifts (Chairman, Poster session committee; co-chairman, international participants selection committee); sponsored by International Commission on Geodynamics.

Project Correspondent, U. S. Geodynamics Committee.

Visiting Staff Scientist, Los Alamos Scientific Labs.

Wolfgang E. Elston:

Attended 11th Annual Meeting, South-Central Section, Geological Society of America, El Paso, Texas, March 17-18. Co-authored paper (with E. Erb), "Volcano-tectonic setting of the KCM No. 1 Forest Federal Well, Winkler Anticline, Hidalgo County, New Mexico": Geol. Soc. Amer. Abs. with Prog., v. 9, No. 1, p. 17 (paper read by E. Erb).

Participant, Geological Society of America Penrose Conference on Tectonic Significance of Metamorphic Core Complexes in the North American Cordillera, Tucson, Arizona, May 2-6, 1977. Contributed to discussion on regional tectonic setting: The "ignimbrite flareup" in New Mexico.

Invited participant, NASA Planetology Program Principal Investigators Conference, St. Louis, Missouri, May 23-25, 1977.

Co-leader (with L. S. Crumpler and J. C. Aubele) geologic field trip to basaltic volcanic fields Mount Taylor and Rio Grande regions for invited participants, June 6-8, 1977.

"Rifting and volcanism in the New Mexico segment of the Basin and Range province, southwestern USA," a paper presented at the NATO Advanced

Study Institute on Paleorift Systems of the World, Sundvolden, Norway, July 1977.

"Volcanism and plutonism in mid-Tertiary ignimbrite province, New Mexico, U.S.A. (Abs.): Proc. Joint Gen. Assemblies, Int. Assoc. Seismol. and Physics of the Earth's Interior-Int. Assoc. Volcanol. and Chem. of the Earth's Interior, Univ. Durham (England), p. 234. A paper read at the Joint Assemblies, IASPEI-LAVCEI, Durham, England, August 1977.

Attended Annual meeting of Geol. Soc. of Amer., Seattle, Washington, read paper "Cenozoic orogeny of southwestern United States: Ensialic analog of a backarc basin? (Abs.): Geol. Soc. Amer., Abs. w. Prog., v. 9, p. 966-967.

Rodney C. Ewing:

ERDA sponsored workshop on "Ceramic & Glass Radioactive Waste Forms:", Germantown, Maryland, January 4, 1977.

Joint meeting of the Friends of Mineralogy and the Mineralogical Society of America. Tucson, Arizona, February 10-14, 1977.

New Mexico Geological Society Annual Meeting. Farmington, New Mexico, September 15-17, 1977.

Geological Society of America and Mineralogical Society of America Annual Meeting. Seattle, Washington. November 7-9, 1977.

Exxon Faculty Forum. Houston, Texas, November 28-30, 1977.

"Metamict Minerals: Alteration and Radiation Damage Effects," ERDA workshop on "Ceramic & Glass Radioactive Waste Forms," Germantown, Maryland, January 4.

"Radiation Damage in ThSiO_4 Polymorphs," Sandia Laboratories Seminar. Albuquerque, NM, April 28, 1977.

"Properties of Natural Glasses," Battelle, PNL, Seminar. Richland, Washington, June 23, 1977.

Stephen P. Huestis:

Membership, American Geophysical Union

New Membership, Royal Astronomical Society

Paper presented at American Geophysical Union Meeting, Three-dimensional modeling of the Brunhes/Matuyama reversal boundary from deep-tow measurements, co-authors: K. C. MacDonald, S. P. Miller, 1977.

Raymond V. Ingersoll:

Attended Geol. Soc. America, Cordilleran Section annual meeting, Sacramento, California.

Field Trip Leader, Geol. Soc. America, Cordilleran Section, Sacramento, California.

Attended New Mexico Geol. Soc. Annual Field Trip to San Juan Basin, N. M.

Attended Mineralogical Soc. America short course on Zeolites, Seattle, Washington.

Attended Geol. Soc. America annual meeting, Seattle, Washington.

Chairperson, Technical Session: Tectonics, Geol. Soc. America annual meeting, Seattle, Washington.

Read professional paper at Geol. Soc. America annual meeting, Seattle, Washington.

Klaus Keil:

Secretary, Commission on Meteorites, International Union of Geological Sciences.

Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association.

Secretary, International Association for Geochemistry and Cosmochemistry.

Chairman, Leonard Medal Committee, Meteoritical Society.

Grants, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Mission" to the AIME, Jan. 15, 1977.

Albuquerque, New Mexico. Gave talk on "Composition and evolution of the Martian surface: Results of the Viking x-ray fluorescence experiment" at Sandia Laboratories, Feb. 2, 1977.

Santa Fe, New Mexico. Presented talk on: "The U.S. Viking Missions to Mars", to the Amer. Soc. of Mechanical Engineers, New Mexico Section, Feb. 4, 1977.

Albuquerque, New Mexico. Presented talk on "Scientific results of the U.S. Viking Missions to Mars", to the 21 Club, UNM, Feb. 14, 1977.

Albuquerque, New Mexico. Presented talk on "The geology of Mars: Results of the U.S. Viking Mars landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.

Albuquerque, New Mexico. Presented talk on "Exploration of Mars: The U.S. Viking Mission", to Albuquerque Rock Hounds, June 12, 1977.

Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.

Seattle, Washington. Attended Annual Meeting of the Geological Society of America and presented citation speech for the Roebling Medalist of the Mineralogical Society of America, Prof. R. Castaing of the University of Paris, Orsay, France. Nov. 7-8, 1977.

Houston, Texas. Attended the Conference on Luna 24 in the Lunar Science Institute and co-authored two talks on "Chemical distinctions

among very low-Ti mare basalts" and "Chemical and petrographic studies of 18 Luna 24 lithic fragments." Nov. 1-3, 1977.

Albuquerque, New Mexico. Meeting of the Albuquerque Geological Society. Presented talk on "Composition of the Martian surface: Mineralogical and petrological speculations." Dec. 6, 1977.

Albert M. Kudo:

Attended the Annual Meeting of the American Geophysical Union, December, 1977.

Reviewed two papers for the Geol. Soc. America.

Reviewed abstracts for the Geol. Soc. America for meeting in spring.

Barry S. Kues:

Presented talks to Society of Vertebrate Paleontologists: "The University of New Mexico/BLM Star Lake-Bisti environmental statement paleontological survey"; "Upper Cretaceous vertebrate faunas of the San Juan Basin, New Mexico"; both given Nov. 11, 1977.

Gary P. Landis:

Joined the American Mineralogical Society; presently member of Geol. Soc. Am., Am. Geophys. Union, Geochemical Society.

Review manuscripts: Kowalik, J., Rye, R. O., and Sawkins, F. J., 1977, Stable Isotope Study of the Buchans Polymetallic Sulfide Deposits; Econ. Geol. (U.S.G.S. review).

Stephen G. Wells:

Presented paper, "Remote Sensing of Surficial Geology in Desert Basins and Its Applications to Land Use Problems," Am. Assoc. for the Advancement of Science, Annual Meeting, Feb., Denver, CO., 1977.

Presented paper, "Ephemeral Wash Aggradation in Small Watersheds in the Sonoran Desert, Arizona," Geol. Soc. Am., Cord. Sec. Meeting, Sacramento, CA., 1977.

Presented Paper, "Geomorphic Controls of Alluvial Fan Deposition in the Sonoran Desert, Southwestern Arizona," invited paper presented at 8th Annual Geomorphology Symposium, SUNY at Binghamton, NY, 1977.

Presented Paper, "Fluvial Geomorphic Response to Groundwater Hydrology in Low Relief Karst," Annual Meeting of Geological Society of America, Seattle, WA., 1977.

Travel to Cord. Sec. Meeting of Geol. Soc. of America, Sacramento, CA.

Annual Meeting of American Association for the Advancement of Science, Denver, Colorado.

1977 Board of Directors Meeting, Cave Research Foundation, St. Louis, Missouri

Chief Scientist for Cave Research Foundation

Co-chairman of Advertisement Committee for New Mexico Geological Society

Lee A. Woodward:

Appointed to membership on the Joint Technical Program Committee of the Geological Society of America for 1977-79. Attended meeting in Boulder, Colorado, July 27-28, 1977.

Reviewer of articles submitted for publication in the Bulletin of the Geological Society of America.

Associate Editor of the Bulletin of the Geological Society of America.

Chairman of technical session at Geological Society of America meeting, El Paso, Texas, March 17, 1977.

Presented paper at Geological Society of America meeting, El Paso, Texas, March 17, 1977.

Attended American Association of Petroleum Geologists Rocky Mountain Section meeting in Denver, Colorado, April 3-4, 1977.

Attended Geological Society of America Penrose Conference on "Tectonic Significance of Metamorphic Core Complexes in the American Cordillera" in Tucson, Arizona, May 1-6, 1977.

Attended Geological Society of America meeting and field trips in Missoula, Montana, May 10-15, 1977.

Chairman of technical session at Geological Society of America meeting in Missoula, Montana.

Reviewer of articles submitted for publication in Geology.

Attended Geological Society of America annual meeting in Seattle, Washington, November 6-9, 1977, as member of Joint Technical Program Committee and as member of Editorial Board.

Appointed to 3-year term as a member of the Membership Committee of the Geological Society of America.

7. Other professional activities:

Roger Y. Anderson:

Member, Site Selection Peer Review Panel, ERDA, W.I.P.P. (Nuclear Waste Isolation Pilot Plant), Sandia Laboratories.

Consultant, Sandia Laboratories (W.I.P.P. Project) Geologic evaluation of nuclear waste repository.

Consultant, Gibbs & Hill, New York. Bid preparation.

Review of manuscripts for journals: Review of ms for Limnology and Oceanography, The relationship between suspended sediment in surface water and the vertical distribution of suspended sediments by Richie, J. C. and others.

Review of manuscript, "A lightweight easy to handle sediment trap device," by Alther, G. R. and Clark, R. L.

Review of manuscript, "Measurement of vertical flux of particulate organic matter with a free-drifting sediment trap," Staresinic, N., and others.

Review of manuscript, "A simple method for relocating lake seston traps", by Chambers, K. C., and Parker, A.

Review of Proposal for NSF: "The depositional environment of the Green River Fm., by R. C. Surdam.

Douglas G. Brookins:

Off-campus talks to League of Women Voters.

Off-campus talks to Alb. Gem & Mineral Club.

Workshops on radioactive waste disposal, Los Alamos Sci. Lab'y.

Consulting work for Dames and Moore on uranium feasibility study.

Reviewed books on General Geology and on Environmental Geology.

Reviewed five manuscripts for Second Int. Kimb. Conf.

Reviewer for Geology, Geol. Soc. Amer., Chem. Geology.

Reviewed NSF proposals and Amer. Inst. Chem. Proposals.

Board of Directors, Energy Exploration Education, Inc.

Jonathan F. Callender:

1977, Geologic highlights of New Mexico (filmstrip and audio tape):
New Mexico Audio Visual, Albuquerque, NM (with S. Stein).

KGGM-TV interview

Albuquerque Tribune interview

Lecture to Energy Resources Board, State of New Mexico

Lecture to UNM Nuclear Waste Seminar

Consultant, Sandia Laboratories

Albuquerque City Planning Commission Consultant

Gibbs and Hill, New York, Consultant

Consultant, Sutin, Thayer & Brown

Consultant, Bernalillo County Planning Commission

Lecture to Albuquerque Gem and Mineral Club

Community College Course, Geology of New Mexico

Wolfgang E. Elston:

Gave presentations to N. M. Energy Resources Board, January 14, 1977 and April 21, 1977.

Member, Selection Committee, Best Earth Science Teacher of the Year (for New Mexico), Southwest Section, National Association of Geology Teachers.

Attended New Mexico Geothermal Workshop, N. M. State University, Las Cruces, New Mexico, November 4, 1977. Co-chaired study group on "The Geothermal Reservoir," wrote report.

Conferred with U. S. Geological Survey personnel and went on field trip, San Francisco volcanic field, Flagstaff, Arizona, October 20-23, 1977.

Field trips to volcanic areas of southwestern New Mexico with Professor G. P. L. Walker, Imperial College, London, England, September 26, 1977 and with Professor Volker Lorenz, University of Mainz, Germany, October 13, 1977.

Reviewed papers for Geological Society of America and Earth and Planetary Science Letters.

Reviewed research proposals for the National Science Foundation.

Edited and reviewed papers for Geological Society of America Special Paper on Ash-flow Tuffs (co-editor: C. E. Chapin, N. M. Bureau of Mines and Mineral Resources).

Led student field trip of mining districts of southwestern New Mexico, November 17-19.

Consulting work for the mining industry.

Rodney C. Ewing:

Supervise the Harding Pegmatite Mine property

Supervise x-ray laboratory facilities

Supervise renovation of Mineralogy Section of Geology Museum

Reviewed manuscripts submitted for publication in the American Mineralogist.

Consultant: Sandia Laboratories

J. Paul Fitzsimmons:

Translation of 7 scientific articles from Russian for other faculty members (and graduate students), 44 pages.

Translation of Russian articles published in Lithology and Mineral Resources, Soil Mechanics and Foundation Engineering, and Soviet Materials Science, 57 articles, 341 pages, published by Plenum Publishing Corporation, New York.

Preparation of mineral and rock collections, with explanatory notes, for a boy's camp in the Sandia Mountains.

Raymond V. Ingersoll:

Taught summer school, University of New Mexico

Klaus Keil:

Consultant, Sandia Laboratories, Albuquerque, New Mexico

Reviewed four lunar sample proposals submitted to NASA for funding.

Reviewed 14 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Radio interview with Ray Herne, Jan. 24, 1977.

Radio interview with KRST-FM, March 9, 1977.

Several interviews with the Lobo, Albuquerque Journal and Albuquerque Tribune regarding U. S. Viking Mars Missions.

TV interview, channel 13, on U.S. Viking Mars Missions, Oct. 11, 1977.

TV interview, channel 7, on U.S. Viking Mars Missions, Oct. 12, 1977.

Leader of the Kenna Consortium.

Leader of the Angra dos Reis Consortium.

Hosted the Meeting of the Southwest Probe Users Group, April 21, 1977.

Hosted and organized visits of the following scientists to UNM, most of which presented seminars:

- a) Mr. Robert Clementidis, American Museum of Natural History, New York, NY, Jan. 17 - 23, 1977.
- b) Dr. Martin Prinz, American Museum of Natural History, New York, NY, Feb. 15-18, 1977.
- c) Dr. Lee Rudy, Provost, University of California, La Jolla, Calif., April 5, 1977.
- d) Dr. K. F. J. Heinrich, National Bureau of Standards, Washington, D.C., April 21-22, 1977.
- e) Dr. Robert Dietz, Arizona State University, Tempe, Arizona, April 22, 1977.
- f) Dr. James Gunnerson, Nebraska State Museum, Lincoln, Nebraska, May 23, 1977.

- g) Dr. J. Saxena, Dept. of Geology, Brooklyn College, Brooklyn, N. Y., June 23-25, 1977.
- h) Dr. H. Wakita, University of Tokyo, Japan, Sept. 3, 1977.
- i) Dr. Nikolai Sobolev, Institute of Geology, Academy of Sciences of the USSR, Siberian Branch, Novosibirsk, USSR, Oct. 18-20, 1977.
- j) Dr. C. E. Nehru, Dept. of Geology, Brooklyn College, Brooklyn, N. Y., Oct. 24-29, 1977.
- k) Dr. J. McSween, Dept. of Geology, University of Tennessee, Knoxville, Tennessee, Nov. 10-11, 1977.
- l) Dr. G. Dixon and Mr. F. Maldonado, U. S. Geological Survey, Denver, Colorado, Dec. 12, 1977.

Taught special classes as guest lecturer in the following courses:

- a) Seminar on Nuclear Waste Disposal, Dept. of Geology, UNM. Gave 2 hour seminar on "The nuclear fuel cycle". August 29, 1977.
- b) Class on General Science (D. Kidd). Gave 1 hour guest lecture on "Moon rocks" and a 2 hour lecture-guided tour of the Meteorite Museum, Institute of Meteoritics, UNM. Sept. 16, and Oct. 31, 1977.
- c) Class on Astronomy (Physics 101). Gave a guest lecture on "Viking: Exploration of Mars." Sept. 20, 1977.
- d) Class on Instrumental methods in Geology (Geology Dept., UNM). Gave guest lectures on Nov. 11 and 14, 1977, and gave a 2 hour laboratory session on Nov. 16, 1977.

Organized and guided field trip to Meteorite Crater and the San Francisco Volcanic Field, Arizona. Nov. 11-13, 1977.

Albert M. Kudo:

Reviewed proposal sent to the National Science Foundation for funding.

Taught Geochemistry and Mineral Deposit course at Sandia Corp.
Consultancy for Wyoming Minerals Corp.

Barry S. Kues:

Presentation on paleontological resources of San Juan Basin to B.L.M. public meeting, June 22.

Talk to Albuquerque chapter of Sierra Club on Late Cretaceous fossils, Sept. 8.

Talk and led field trip for Canoncito alternative school, Canoncito, N. M., Oct. 10.

Participation in panel discussion sponsored by the B.L.M. on New Mexico's paleontological resources and projected impact of strip mining for coal, Oct. 27.

Talk on fossils and strip mining impact of San Juan Basin, N. M., to executive committee, N. M. Sierra Club, Dec. 3.

Member of Governor's task force for paleontological resource management in New Mexico, Dec.

Gary P. Landis:

Consulting for Sandia Laboratories, Los Alamos Scientific Labs (CNC-11 and Geoscience), and Conoco Minerals Division.

Stephen G. Wells:

Editor for Cave Research Foundation Annual Report, submitted to National Park Service.

Chairman of CRF Karst Fellowship Committee

Reviewed articles for Geol. Soc. of America Bulletin.

Consulting Geologist for: Sandia Laboratories, Nuclear Waste Disposal Project (WIIP) and Geothermal Project of Dept. of Geology, UNM, Recent Faulting in Animas Valley and Relation to Geothermal Potential, Consulting Geologist.

Lee A. Woodward:

Reviewed grant proposals for the National Science Foundation.

8. Non-teaching University service.

Roger Y. Anderson:

Chairman, Univ. Committee on Paleoecology

Member, Research Policy Committee

Douglas G. Brookins:

Chairman, Geology Department

Advisor to geology graduate students and non-geology minors

Jonathan F. Callender:

Research Policy Committee (Chairman, Research Budget subcommittee)

General Library Liason for Geology

Undergraduate Curriculum Committee Chairman, Geology Dept.

Committee on Examinations, Geology

Department Review Committee, Geology

Department Library Advisor, Geology

Thin-section laboratory supervisor

Undergraduate and Graduate Advisor

M.S. and Ph.D. thesis Advisor and Chairman

Wolfgang E. Elston:

Semester I, Member, Graduate Committee, Chairman, Subcommittee on Evaluation and Planning, Section A. Chaired ad hoc evaluation committees for evaluation of graduate programs in Music Education, Music History

and Literature, Comparative Literature, and Portuguese. Reports of these evaluations were submitted to the Graduate Committee and the Provost.

Semester II, Member, A & S Promotion Advisory Committee for Science and Mathematics.

Semester I, in charge of inviting speakers for departmental colloquia.

Chairman of 2 Ph.D. and 6 M.S. committees, Graduate students published two papers; one is in press.

Rodney C. Ewing:

Undergraduate Curriculum Committee

Graduate Admissions Committee

General Honors Council

Graduate Advisor

NAPCOE advisor

Presidential Scholar Advisor

J. Paul Fitzsimmons:

Undergraduate advisor in Geology Department

Raymond V. Ingersoll:

Faculty representative, Dept. of Geology, Univ. of New Mexico graduation exercises.

Member, Geology Department Graduate Curriculum Committee

Member, 16 thesis and dissertation committees

Chairman, 3 thesis committees

Graduate and Undergraduate Faculty Advisor

Klaus Keil:

Administration of the Institute of Meteoritics and its collections.

Chairman and member of several theses and dissertation committees in the Department of Geology.

Member of the Dean's Committee to evaluate new proposed general science course.

Member of the A & S Committee on Academic Programs.

Member, Committee on Language Exams, UNM Department of Geology.

Member, Committee on Objectives, UNM Department of Geology.

Albert M. Kudo:

Chairman of the UNM Colloquium Committee

Chairman of the Sandia-UNM Colloquium Committee

Member of Graduate Admissions Committee, Geology Dept.

Faculty advisor for Presidential Scholar.

Barry S. Kues:

Advisor to graduate and undergraduate geology students

Membership on several intradepartmental committees

Membership on Provost's Committee for planning of Natural History Museum.

Gary P. Landis:

Graduate Programs Committee, Geology Dept.

Comm. on Exams, Geology Dept.

Dept. Review Committee

A & S Graduate Education Committee

Stephen G. Wells:

Graduate Admissions Committee, Dept. of Geology

Advisor for one Ph.D. candidate, one M.S. student, and one Graduate Research Project.

Lee A. Woodward

Chairman of three thesis and dissertation committees

9. Public Service

Roger Y. Anderson:

Lecture to C.A.N.T. on Geology of Carlsbad area.

Lecture, Unitarian Church, Laguna Beach, California, Nature of Change.

Identification of rocks and fossils for the public.

Douglas G. Brookins:

Board of Directors, Congregation Albert (Chairman, Religious School Committee)

Jewish Community Council, Budget & Allocations Committee

Geology advisor for boy scout troop.

Jonathan F. Callender:

Lectures at Sunday School classes (various denominations), Junior League of Albuquerque, Cactus & Succulent Society, high schools, Albuquerque Rockhounds, to non-Geology at UNM, and others.

Wolfgang E. Elston:

Member, Advisory Board, Explorer Post 296, Boy Scouts of America

Gave advice to the public on mineral deposits and local geology

Member, Parent-Teacher-Student Association, Albuquerque High School.

Rodney C. Ewing:

Conducted tour of Geology Museum for Sandia School (March 30).

Presentation on "Radioactive Waste Disposal" to Farmington School District In-Service Training Session, Farmington, New Mexico (September 26)

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.

Presented talk on "The geology of Mars: The U.S. Viking Mission" to the AIME, Grants, NM, Jan. 15, 1977.

Presented talk on "The U.S. Viking Missions to Mars" to the Amer. Society of Mechanical Engineers, New Mexico Section, Santa Fe, NM, Feb. 4, 1977.

Presented talk on "Exploration of Mars: The U.S. Viking program" to UNM Women's Faculty Club. April 12, 1977.

Presented talk on "The geology of Mars: Results of the U.S. Viking Mars landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.

Presented talk on "Exploration of Mars: The U.S. Viking Mission" to Albuquerque Rock Hounds, June 12, 1977.

Investigated without charge many rocks suspected to be meteorites and brought in by citizens.

Albert M. Kudo:

Various talks on Geology and Origami to Albuquerque Public School classes.

Member of Task Force on Declining Enrollment for APS (Stapleton's Committee).

Member of Executive Board of Bellehaven PTA.

Barry S. Kues:

Member, Committee to establish a State Natural History Museum

Gary P. Landis:

Boy Scouts: a) Founding (charter) comm. member and unit co-ordinator - Troup 410 and b) Pack 410, song leader, steering comm. member.

Arroyo Del Oso Elementary School Parent Teacher Association Member.

Stephen G. Wells:

Consulting with Environmental Planning Commission of City of Albuquerque.

Lee A. Woodward:

Member of Advisory and Peer Review Committee of the Energy Institute for Fossil Fuels (sponsored by New Mexico Energy Resources Board).

10. Personal Information

J. Paul Fitzsimmons:

Wife died.

S. P. Huestis:

Married July 30, 1977 - Diedra A. Huestis

Raymond V. Ingersoll

Wife, Mary Ingersoll, KGGM-TV (Ch. 13) anchorwoman and weatherperson.

Gary P. Landis:

Add one new beautiful baby girl, Kathryn Emily, born November 25, 1977.

The Report of the Institute of Meteoritics

July 1, 1968 to June 30, 1978

Klaus Keil, Director

This paper constitutes the Annual Report of the Institute of Meteoritics for the period of July 1, 1977 to June 30, 1978. However, this is also the tenth anniversary of the appointment of the present Director of the Institute, and it seemed appropriate to summarize on this occasion the activities and achievements of the Institute of Meteoritics and of its staff and students for this ten year time period from July 1, 1968 to June 30, 1978. Accordingly, the present report covers this ten year time period and summarizes the activities and achievements of Institute of Meteoritics personnel in the areas of teaching, research and public service and documents the important role the Institute plays at UNM as one of the major and most-respected research institutions in extraterrestrial geology and cosmochemistry in the world.

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I. REPORT OF THE INSTITUTE OF METEORITICS, 1968-1978

1. Introduction

The Institute of Meteoritics was founded in 1944 and is the oldest institution of its kind in the world. It was initially founded as an individual unit in the College of Arts and Sciences. Since 1968, when the present Director took office, the Institute has been a Division within the Department of Geology and is housed in the same building (Northrop Hall). The Director of the Institute is also a Professor in the Geology Department but administers the Institute as a separate unit, with separate budget, staff, etc. The incorporation of the Institute as a Division into the Department of Geology has been extremely beneficial to both the Institute and Department. For example, students interested in thesis or dissertation work on topics within the framework of the Institute's research mission (e.g. meteorite and lunar sample studies; geology of Mars; comparative planetology; terrestrial and planetary volcanology; etc.) can work on such topics with personnel of the Institute but obtain an advanced degree in geology, thus providing for the broadest possible employment opportunities. In turn, the availability of the sophisticated research equipment in the Institute, the extensive out-side grant support received by members of the Institute, the involvement of geology students in research in the forefront of meteoritics and cosmochemistry etc., have been extremely beneficial to students and faculty of the Department of Geology.

The Institute of Meteoritics has changed and evolved dramatically since 1968, both in size and in scope. Then, the staff consisted of the Director, 1/2 time Secretary, 1/2 time Graduate Research Assistant, and the Electron Microprobe Specialist. Now, in addition, the Institute has a full-time Secretary, a Senior Research Associate (Ph.D), 2 Post-doctoral Fellows (Ph.D), a Staff Scientist (M.S.), 12 graduate Research Assistants (see appendixes 1,2), and about 2-4 U.S. and foreign Visiting Scholars (Ph.D) per year. Except for the Director, the Senior Research Associate, the Electron Microprobe Specialist, the Secretary and 1/2 time Staff Scientist, all other personnel is funded by outside grants and contracts (see appendix 1). Since 1968, about \$2.7 million have been attracted from the outside to the Institute (see appendix 3), whereas the UNM budget is presently about \$75,000.00 per year. Thus, the overhead generated annually by the Institute approaches the Institute's UNM budget. In addition, many salaries for professionals (see appendix 1) and all for students are paid from outside grant and contract funds (e.g. since 1968, approximately \$400,000.00 have been spent for 72 graduate and 37 undergraduate student salaries; see appendix 2) and about \$300,000.00 have been spent on equipment

The scope and functions of the Institute have also evolved and changed dramatically since 1968 and now concern 3 main areas, namely teaching, research, and public service.

2. Teaching

Teaching concerns classroom teaching by members of the Institute of Meteoritics as part of the curriculum of the Department of Geology and includes courses on "Meteoritics and cosmochemistry", "Microprobe analysis", "Petrography of opaque ores", "Instrumental methods in geochemistry", "Physical geology", and "Seminar on current topics in geology". A considerable portion of the teaching by the staff of the Institute is done outside the classroom in the form of supervision of Senior Theses, Masters Theses, and Ph.D Dissertations, as well as other research assignments and projects to undergraduate and graduate students. Since 1968, this has resulted in the completion of 2 Senior Theses, 6 M.S. Theses (3 in progress), 3 Ph.D. Dissertations (3 in progress) (see appendix 4), and 40 scientific papers (see appendix 5) and 37 abstracts (see appendix 6) published in national and international scientific journals that were authored or co-authored by students of the Institute (note that this does not include assistance in student research by Institute personnel for students working with other Professors in the Geology Department). Furthermore, students in the Institute attended 35 scientific professional meetings and conferences and presented scientific papers (see appendix 7). Finally, many Department of Geology students not working in the Institute have profited from classes and seminars taught by Institute personnel, have received supervision and advice from Institute personnel and have used Institute equipment for thesis, dissertation and other research.

3. Research

Research in the Institute of Meteoritics is carried out by faculty, staff, post-doctoral fellows, visiting scholars, graduate and undergraduate research assistants. Since 1968, 8 post-doctorals fellows and 66 U.S. and 35 foreign visiting scholars have visited and worked in the Institute (see appendix 8),

and 72 graduate research and 37 undergraduate research assistantships totalling about \$404,000.00 have been awarded from outside funds to students (see appendix 2). Research support comes largely from outside grant and contract agencies (e.g. NASA, NSF, DOE). Since 1968, 52 grants and contracts totalling \$2.7 million have been in effect (most of them are forwarded-funded) with the present annual support being about \$390,000.00 (see appendix 3).

Research in the Institute before 1968 was largely in the field of Meteoritics proper. Now, research is carried out in the forefront of planetary mineralogy, petrology, and chemistry and is aimed at all aspects required for an understanding of the origin of our solar system, the planets, and their evolution through time. Presently, research is carried out to that end in basically 6 areas. These are 1) The origin and history of meteorites and their parent bodies; 2) origin and evolution of the earth's moon, based on studies of lunar samples returned by the U.S. Apollo 11, 12, 14, 15, 16 and 17 manned missions and the Soviet Luna 16, 20 and 24 unmanned missions; 3) the origin and evolution of the surface rocks and soils of Mars, based on the results of the U.S. Viking unmanned landings on the planet, as well as theoretical and laboratory analog studies; 4) the experimental study of the nucleation kinetics and textures of highly super-cooled molten silicates as indicators for the origin of meteoritic and lunar chondrules and, ultimately, the cooling conditions of the solar nebula from which our solar system condensed and agglomerated; 5) the origin and evolution of terrestrial basaltic and ultramafic rocks from Hawaii, drilled by JOIDES from the ocean floor, and collected in New Mexico, as analogs to extraterrestrial basaltic and ultramafic rock types; and 6) geological aspects of the disposal of high-level nuclear wastes in geologic media, particularly shale, tuff, and deep basement rocks. In addition, personnel of the Institute devotes a great amount of time to planning of future space missions in an advisory capacity to NASA. One important mission presently considered, for

example, is the exciting prospect of an unmanned mission to Mars that will allow surface exploration, discriminatory sample selection, and sample return for study to earth. We are convinced that some of the most basic cosmological questions, such as the question of life on Mars and the complex weathering processes on the planet can only be solved by detailed, well-planned studies of returned samples, and not remotely. Of course, as priorities in planetary geology and cosmochemistry change, so will the research emphases in the Institute of Meteoritics: Our goal is to always work in the forefront of planetary-and space geology - related areas that are most likely to help advance man's knowledge of the origin and evolution of our solar system and the planets.

Since 1968, members of the Institute of Meteoritics have published the results of their research in the above-mentioned 6 areas in the form of 207 scientific publications in major national and international journals and, in addition in the form of 105 abstracts of talks given before national and international conferences and symposia. Since there are only 2 permanent UNM academic employees in the Institute of Meteoritics (the Director and the Senior Research Associate; see appendix 1), this calculates to 10.3 publications and 5.3 abstracts per academic employee per year. When calculating these ratios on the basis of all Ph.D.-level personnel in the Institute (i.e. the Director, The Senior Research Associate, and 2 rotating Post-doctoral Fellows funded by outside grant money; see appendix 1), this still amounts to 5.2 major publications and 2.6 abstracts per year per Ph.D in the Institute. Note, however, that the Senior Research Associate and the 2 Post-doctoral Fellow positions have become available only since 1970 and 1972, respectively. Thus, before 1970, the publication load was carried by only one and before 1972 by only 2 Ph.D's. Today, the publication rate is therefore considerably higher: in 1977, for example, 41 major scientific publications were published in

national and international scientific journals, amounting to 20.5 publications per permanent Ph.D or 10.3 publications per Ph.D. in the Institute! (see appendix 5). Thus, the Institute's personnel has consistently been extremely productive over the years, both in quality and quantity of the published research. In addition, members of the Institute have participated in 315 professional travels (see appendix 9) and 269 professional meetings (see appendix 7), the vast majority of which was funded by outside grants and contracts. Also, members of the Institute have been involved in a multitude of other professional activities, such as editorships of journals and books, consultantships; served as reviewers of proposals submitted to funding agencies and of papers submitted for publication in national and international journals; organized exhibits of moon rocks and meteorites, gave many radio and television interviews and TV shows on subjects related to space research, etc. (see appendix 10).

4. Public Service

Public service is the third major function of the Institute of Meteoritics. As part of this public service, the Institute maintains a meteorite museum where samples of stone and iron meteorites, tektites, impactites and meteorites of New Mexico are displayed, together with color photomicrographs illustrating their texture. This Museum is open to the public, and it is estimated that approximately 10,000 citizens visit the Museum per year.

Public service of members of the Institute further includes inspection, without charge, of rocks suspected to be of meteoritic origin, as well as special guided tours of the Meteorite Museum and of the moon rocks in our laboratory that are not on public display. In addition, members of the Institute present many talks to school classes, civic groups etc. and arrange special meteorite exhibits, for example, at the New Mexico State Fair, at Gem and Mineral Club exhibitions, etc. (for details, see appendix 11).

5. Importance of the Institute of Meteoritics to the University of New Mexico.

The Institute of Meteoritics enjoys a national and international reputation as a leading institution in the field of extraterrestrial geology and cosmochemistry in the world and has brought considerable recognition to the University of New Mexico. This recognition has come in various forms, for example, in the many honors that have been bestowed by professional organizations, government agencies etc. upon individuals of the Institute: Since 1968, members of the Institute have been honored on 29 occasions by such bodies (see appendix 12). Furthermore, recognition has also come to the Institute from professional societies, for which Institute members served on 58 occasions since 1968 as officers, editors, etc. (see appendix 13). The national and international reputation of the Institute is also evidenced by the 66 U.S. and 35 foreign visiting scholars that have come to the Institute since 1968 (see appendix 8), and the academic excellence of the Institute is indicated by the 207 publications (see appendix 5) and 105 abstracts (see appendix 6) published by members of the Institute since 1968, by the 269 professional meetings attended and talks given (see appendix 7), as well as by the 52 grants and contracts received, totalling about \$2.7 million since 1968. The Institute further contributes greatly to UNM by training graduate students and by providing the basics for some of the most outstanding and exciting research done at UNM. The Institute has consistently attracted the most gifted students in the Department of Geology, as is evidenced by their outstanding academic records. In fact, many students come here largely because of the Institute and the special research and training opportunities it provides. There is a considerable demand for students trained in this field, as is evident from the fact that all our students have found employment in major Universities, research and industrial laboratories, as well as mining and other industries (see appendix 14). Thus,

the Institute of Meteoritics is an outstanding asset to the University of New Mexico and our State.

6. Future role and requirements

It is anticipated that the role of the Institute will continue as it has in the past few years, always with emphasis shifting to what appear to be the most exciting and important areas of research. The Institute is sufficiently small to allow for such shifts to take place over short time intervals, an important aspect of the unique role this Institute plays at UNM.

Personnel of the Institute should remain as is, with one important exception. That is the addition of a full-time, permanently employed, Ph.D level Research Associate. The present permanent scientific staff of the Institute consists only of two Ph.D's (the Director and the Senior Research Associate), and one M.S. (the Staff Scientist; 1/2 time). All other scientific personnel is on contract and grant salaries. The addition of a permanent Research Scientist on UNM funding to the staff would allow us to even further 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 larger scale in the study of oceanic basalts drilled from the ocean floor, as well as Mars soil analog studies, projects that the present scientific personnel cannot do full justice. Consideration of an additional Research Associate (Ph.D) for the Institute of Meteoritics is therefore urgently requested.

Appendix 1

Present staff of the Institute of Meteoritics (in 1978), and sources of salary support.

<u>Name</u>	<u>Position</u>	<u>Source of Salary Support</u>
1. Dr. Klaus Keil	Director and Professor	UNM 9 months NASA 2 months
2. Dr. G. J. Taylor	Sr. Research Associate	UNM 80% NASA 20%
3. Dr. R. D. Warner	Post-doctoral Fellow	NASA 100%
4. Dr. J. L. Berkley	Post-doctoral Fellow	NASA 100%
5. D. Lange (M.S.)	Staff Scientist	UNM 50% NASA 50%
6. S. H. Conrad	Electron Microprobe Specialist	UNM 100%
7. M. Fillmon	Secretary	UNM 100%
8. P. Longmire	Graduate Research Assistant	UNM 1/2 time
9. J. Gooding	Graduate Research Assistant	NASA 1/2 time
10. G. Huss	Graduate Research Assistant	NASA 1/2 time
11. G. Lux	Graduate Research Assistant	NASA 1/2 time
12. W. Mansker	Graduate Research Assistant	NASA 1/2 time
13. S. Wentworth	Graduate Research Assistant	NASA 1/2 time
14. R. Nielsen	Graduate Research Assistant	NASA 1/2 time
15. H. Planner	Graduate Research Assistant	DOE 1/2 time
16. T. Pink	Graduate Research Assistant	DOE 1/2 time
17. G. Smith	Graduate Research Assistant	DOE 1/2 time
18. S. Griffith	Graduate Research Assistant	DOE 1/2 time
19. J. Dean	Undergraduate Research Assistant	Work/Study 80% NASA 20%
20. My Van Vu	Undergraduate Research Assistant	Work/Study 80% NASA 20%

Appendix 2

Number of undergraduate and graduate students in the Institute of Meteoritics since 1968, supported by outside grants and contracts.

Year	# of undergraduate students	# of graduate students	Total
1968-1969	0	1	1
1969-1970	3	5	8
1970-1971	6	4	10
1971-1972	5	9	14
1972-1973	5	8	13
1973-1974	4	9	13
1974-1975	3	7	10
1975-1976	4	9	13
1976-1977	3	8	11
1977-1978	4	12	16
	<u>37</u>	<u>72</u>	<u>109</u>
Estimated total cost to outside grants	<u>\$55,500.00</u>	<u>\$349,000.00</u>	<u>\$404,500.00</u>

Appendix 3

Outside grants and contracts awarded to K. Keil as Principal Investigator in
the Institute of Meteoritics since 1968.

1968 - 1969

- | | |
|--|----------------------|
| 1. Research contract with NASA Manned Spacecraft Center,
Houston, Texas, entitled "Electron microprobe analysis
of the returned lunar sample". Duration: February 1,
1969-July 31, 1969. | \$ 41,940.00 |
| 2. Research contract with NASA Goddard Space Flight Center,
Goddard Space Flight Center, Greenbelt, Maryland,
entitled "Preparation of standards for electron micro-
probe analysis". Duration: March 14-September 14,
1969. | \$ 4,416.00 |
| 3. Cooperative working agreement with NASA Ames Research
Center, Moffett Field, California, entitled "Mineralogy
and petrology of Hawaiian basalts". Duration: April 15,
1969 to September 15, 1970. | \$ 14,403.00 |
| 4. Grant from UNM Research Allocations Committee, entitled
"Mineralogy, petrology, and chemistry of the Burdett,
Kansas, stone meteorite". Duration: November 7, 1969
to June 30, 1969. | \$ 500.00 |
| 5. Laser beam microprobe, Moseley X-Y recorder, several
strip-chart recorders, and other equipment was brought
from NASA Ames Research Center to UNM for work on
meteorites and rocks. Estimated value of equipment. | \$ 42,000.00 |
| Total grants and equipment in effect in 1968-1969. | \$ <u>103,259.00</u> |

1969 - 1970

- | | |
|---|----------------------|
| 6. Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". | \$ 88,490.00 |
| 7. Grant from NASA Headquarters via University of California, Los Angeles, entitled "Mineralogy and petrology of Type II and III carbonaceous chondrites". | \$ 3,000.00 |
| 8. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of the Crab Nebula". | \$ 4,800.00 |
| 9. Research contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Study of microparticles by electron microprobe and x-ray techniques". | \$ 14,632.00 |
| 10. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of collisionless damping". | \$ 5,200.00 |
| Total grants and contracts in effect in 1969-1970: | \$ <u>116,122.00</u> |

1970 - 1971

- | | |
|--|--------------|
| 11. Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". | \$ 46,550.00 |
| 12. Amendment to cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts. | \$ 840.00 |

13. Research contract with NASA Manned Spacecraft Center,
Houston, Texas, entitled "Electron microprobe and
laser microprobe study of the returned lunar samples". \$ 28,500.00
14. Research Grant from NASA Headquarters via the
University of California, Los Angeles, California,
entitled "Mineralogical and chemical study of carbonaceous
chondrites". \$ 3,500.00
15. Research Grant from NASA Manned Spacecraft Center,
Houston, Texas, entitled "Electron microprobe and
laser microprobe study of Apollo 14 to 17 returned
lunar samples". Duration: Feb. 1, 1971 - Jan. 31, 1974. \$ 140,000.00
16. Research Contract with Sandia Corporation, Albuquerque,
New Mexico, entitled "Preparation of thin sections and
x-ray patterns of micron-sized refractory spherules".
Duration: June 1, 1971 - Sept. 31, 1971. \$ 3,000.00
17. Research Grant from NASA Headquarters, Washington,
D.C., entitled "Mineralogy and chemistry of polymict-
brecciated stone meteorites". Duration: June 1, 1971 -
May 30, 1974. \$ 88,150.00
18. Cooperative working agreement with NASA Ames Research
Center, Moffett Field, California, entitled
"Mineralogy and petrology of Hawaiian basalts".
Duration: June 1, 1971 - May 31, 1972. \$ 8,400.00
19. Cooperative working agreement with NASA Ames
Research Center, Moffett Field, California, entitled
"Study of collisionless damping". Duration: June 1,
1971 - May 31, 1972. \$ 5,600.00
- Total grants and contracts in effect in 1970-1971: \$ 324,540.00

1971 - 1972

20. Research Grant from NASA Headquarters, Washington, D.C., via University of California, Los Angeles, California entitled "Carbonaceous chondrites: Their mineralogy and petrology."
Duration July 1, 1971 - June 30, 1972. \$ 3,000.00
21. Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled, "Preparation of thin sections and x-ray diffraction patterns of micron-sized refractory spherules."
Duration: October 1, 1971 - June 30, 1972. \$ 6,200.00
22. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "On mass loss from RSO's; galactic nuclei, and early type stars; cyclotron and strong Landau damping in relativistic plasma."
Duration: July 1, 1972 - June 30, 1973 \$ 5,600.00
23. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples".
Duration: February 1, 1972 - January 31, 1972. \$ 147,600.00
24. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy and chemistry of polymict-brecciated stone meteorites."
Duration: June 1, 1972 - May 31, 1975 \$ 130,000.00
25. Research Grant from the National Science Foundation entitled "Petrologic study of ultramafic inclusions, San Carlos, Arizona". (M. Prinz, P.I.) \$ 10,600.00

Total grants and contracts in effect in 1971-1972: \$ 303,000.00

1972 - 1973

26. Research Contract with Sandia Corporation, Albuquerque, New Mexico entitled "Preparation of thin sections and x-ray diffraction patterns of micron-sized refractory spherules".
Duration: July 1, 1972- June 30, 1973. \$ 6,077.00
27. Research Grant from NASA Langley Research Center, Hampton, Virginia, entitled "X-ray fluorescence analysis of Martian soil during the 1975-1976 U.S. Viking unmanned Landing on Mars."
Duration: July 1, 1972 - March 31, 1977. \$ 75,464.00
28. Research Grant from NASA Headquarters via the University of California, Los Angeles, California, entitled "Mineralogical and chemical study of carbonaceous chondrites".
Duration: July 1, 1972 - June 30, 1973. \$ 3,000.00
29. Research Grant from NASA Manned Spacecraft Center, Houston, Texas entitled "Electron microprobe study of returned lunar samples".
Duration: February 1, 1972 - January 31, 1973 \$ 1,975.00
30. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe study of returned lunar samples".
Duration: February 1, 1972-January 31, 1973. \$ 170,200.00

31. Research Grant from NASA Ames Research Center,
Moffett Field, California, entitled "Physical models
of quasi-stellar objects; relativistic effects
in wave propagation and damping in relativistic
plasmas".
- Duration: June 30, 1973 - June 30, 1974. \$ 5,600.00
32. Research Grant from NASA Headquarters, Washington,
D.C. entitled "Mineralogy and chemistry of polymict-
brecciated stone meteorites."
- Duration: June 1, 1973 - May 31, 1976. \$ 87,693.00
- Total grants and contracts in effect in 1972-1973. \$ 350,009.00
- 1973 1974
33. Research Grant from NASA Headquarters, via the
University of California, entitled "Mineralogical
and petrological study of carbonaceous lithic
fragments in ordinary chondrites."
- Duration: July 1, 1973 - June 30, 1974 \$ 3,000.00
34. Research Contract with Sandia Corporation, Albuquerque,
New Mexico, entitled "Preparation of thin sections
and electron microprobe, x-ray diffraction and ion
microprobe analyses of micron-sized spherules of
refractory matrices".
- Duration: July 1, 1973 - June 30, 1974. \$ 6,184.00
35. Research Grant from NASA Manned Spacecraft Center,
Houston, Texas, entitled "Electron microprobe analysis
of returned lunar samples".
- Duration: February 1, 1974 - January 31, 1977 \$ 165,436.00

36. Research Grant from NASA Johnson Space Center,
Houston, Texas, entitled "Electron microprobe
study of returned lunar samples".
- Duration: February 1, 1974 - January 31, 1975 \$ 1,350.00
- Total grants and contracts in effect in 1973-1974. \$ 175,970.00

1974 -1975

37. Research Grant from NASA Ames Research Center,
Moffett Field, California, entitled "Variability
of quasi-stellar objects and galaxies; relativistic
effects in wave propagation and damping in
relativistic plasmas".
- Duration: July 1, 1974 - June 30, 1975 \$ 6,250.00
38. Amendment to No. 37 \$ 453.00

39. Research Grant from NASA Headquarters, Washington,
D.C., entitled "Mineralogy, petrology and chemistry
of polymict-brecciated stone meteorites."
- Duration June 1, 1974 - May 31, 1977 \$ 91,475.00

40. Research Grant from NASA Headquarters, Washington,
D.C. entitled "Mineralogy, petrology and chemistry
of brecciated stone meteorites: Impact and
igneous histories of meteorite parent bodies".
- Duration: June 1, 1975 - February 29, 1976. \$ 78,700.00
- Total grants and contracts in effect in 1974-1975 \$ 176,878.00

1975 - 1976

41. Research Grant from NASA Headquarters, Washington,
D.C., entitled "Mineralogy, petrology, and chemistry
of brecciated stone meteorites".
- Duration: March 1, 1976 -Feb. 28, 1979. \$ 153,490.00

42. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites".
Duration: March 1, 1976 - Feb. 28, 1978 \$ 67,041.00
43. Research Grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled: "Electron microprobe analysis of returned lunar samples".
Duration: March 1, 1976 - Jan. 31, 1979. \$ 184,772.00
Total grants and contracts in effect in 1975-1976: \$ 405,303.00

1976 - 1977

44. Research grant from NASA Langley Research Center Hampton, Virginia, entitled: "x-ray fluorescence Analysis of Martian soil via the Viking x-ray fluorescence spectrometer".
Duration: April 1, 1977 - June 30, 1979 \$ 36,000.00
45. Research grant from NASA Headquarters, Washington D.C., "Mineralogy, petrology, and chemistry of brecciated stone meteorites."
Duration: March 1, 1977 - Feb. 28, 1980. \$ 153,380.00
46. Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples."
Duration: Feb. 1, 1977 - Jan. 31, 1980. \$ 185,548.00
Total grants and contracts in effect in 1975-1976. \$ 374,928.00

1977 - 1978

47. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Technical services with steam -

explosion experimental program".

Duration: Oct. 1, 1977 - Sept. 30, 1978 \$ 10,741.00

48. Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Mineralogy, petrology and chemistry of breccias, mare basalts and cores".

Duration: Feb. 1, 1978 - Jan. 31, 1981 \$ 180,966.00

49. Research contract with Sandia Laboratories, Albuquerque, N.M. entitled "Preparation of compressed pellets".

Duration: May 4, 1978 - Sept. 1, 1978. \$ 4,194.00

50. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Particle size analyses of powdered oxide samples".

Duration: March 1, 1978 - Sept. 30, 1978. \$ 3,519.00

51. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Shale and tuff in Nevada as potential media for disposal of high-level nuclear waste".

Duration: Dec. 1977 - Sept. 30, 1978. \$ 49,000.00

52. Research grant from NASA Headquarters, Washington, D.C., entitled "The formation and evolution of stony meteorites."

Duration: March 1, 1978 - Feb. 28, 1981. \$ 145,597.00

Total grants and contracts in effect in 1977 - 1978: \$ 394,017.00

Thus, since 1968, outside grant and contract funds awarded amount to \$2,724,026.00.

Appendix 4

Dissertations and theses in the Institute of Meteoritics, with degrees in
Geology, since 1968.

DISSERTATIONS

1. F. Busche (1975): Major and minor element contents of coexisting olivine, orthopyroxene, and clinopyroxene in ordinary chondritic meteorites.
2. T. Steinborn (1976): Particle-size effects in energy dispersive x-ray fluorescence analysis.
3. J. Berkley (1977): A petrochemical characterization of certain DSDP subaqueous basalts and andesites from the Indian Ocean.

In progress

4. H. Planner: Olivine homogeneity in synthetic, haplo-chondritic melts (~ 1978).
5. W. Mansker: Petrogenesis of nephelinites and melilite nephelinites of the Honolulu volcanic series, Oahu, Hawaii (1978).
6. J. Gooding: Mineralogy, petrology and chemistry of individual meteorite chondrules: Implications for origin (~ 1978).

THESES

1. J.A. Green (1974): A petrologic and quantitative compositional study of four rocks from the Mid-Atlantic Ridge.
2. P. Hlava (1974): Unusual lavas from Molokai, Hawaii: Alkalic olivine basalts transitional to hawaiites and strontium-rich mugearites.
3. H. Planner (1974): An experimental investigation of highly undercooled magnesium silicate chondrule-like spherules.
4. H.G. Brown (1977): Petrology and geochemistry of shonkinite, kawaiite, and nepheline monzonite of the Island of Kauai, Hawaii.
5. S.S. Sibrary (1977): Mineralogy, petrology, and geochemistry of some lavas from Kohala Volcano, Hawaii.

6. R.G. Warren (1978): Characterization of the lower crust-upper mantle of the Engle Basin, Rio Grande Rift, from a petrochemical and field geologic study of basalts and their inclusions.

In progress

7. S. Wentworth: Mineralogy, petrology and chemistry of highlands fragments in the Apollo 17 deep drill core (~ 1979).
8. G. Lux: Bulk chemistry, mineralogy, and petrology of chondrules from H3 to H6 chondrites: Effects of recrystallization (~ 1979).
9. G. Huss: Chemistry and petrology of matrix material of unequilibrated ordinary chondrites (~ 1979).

Appendix 5Publications of the Institute of Meteoritics since 1968.

Scientific articles published in major national and international journals;
scientific publications published by the Institute of Meteoritics; as well
as books: Note: names of student co-authors are underlined.

1. R. Fitzgerald, K. Keil, and K.F.J. Heinrich: Solid-state energy dispersion spectrometer for electron microprobe x-ray analysis. *Science* 159, 528-530, 1968.
2. K. Keil: Zincian daubreelite from Kota-Kota and St. Mark's enstatite chondrites. *Amer. Mineral.* 53, 491-495, 1968.
3. K. Keil: Chemical and mineralogical relationships among enstatite chondrites. *J. Geophys. Res.* 73, 6945-6976, 1968.
4. K.G. Snetsinger, T.E. Bunch, and K. Keil: Electron microprobe analysis of vanadium in the presence of titanium. *Amer. Mineral.* 53, 1770-1773, 1968.
5. K. Keil: Review of "Elektronenstrahl-Mikroanalyse. Vol. IV of Handbuch der mikrochemischen Methoden. H. Malissa, Springer-Verlag, Wien - New York, 1966", in *Amer. Mineral.* 53, 2107, 1968.
6. K. Keil: Special applications, cathode luminescence. In "The electron microanalyzer and its application. Proc. Meeting sponsored by the National Science Foundation of Science, East-West Center, Univ. of Hawaii, Honolulu, Hawaii, November, 1968", pp. 65-69, 1969.
7. J.Z. Frazer, K. Keil, and A.M. Reid: Lattice parameters of kamacite by the Kossel technique. *Amer. Mineral.* 54, May, 1969.
8. K. Keil, G.I. Huss, and H.B. Wiik: The Leoville, Kansas meteorite: a polymict breccia of carbonaceous chondrites and achondrite. In "Meteorite Research" (ed. P.M. Millman), D. Reidel Publishing Company, 1969.

9. K. Keil: Meteorite composition. Chapter 4 in "Handbook of Geochemistry", Springer Publishing Company (ed. K.H. Wedepohl), vol. 1, 78-115, 1969.
10. K.G. Snetsinger and K. Keil: Ilmenite in ordinary chondrites. *Amer. Mineral.* 54, 780-786, 1969.
11. C.B. Moore, E.K. Gibson, and K. Keil: Nitrogen abundances in enstatite chondrites. *Earth and Planet. Sci. Lett.* 6, 457-460, 1969.
12. K. Keil: Titanium distribution in enstatite chondrites and achondrites, and its bearing on their origin. *Earth and Planet. Sci. Lett.* 7, 243-248, 1969.
13. M. Prinz: The Great Rift and King's Bowl lava field, Snake River Plain, Idaho. Second Conf. on Planetology and Space Mission Planning, Ann. New York Acad. Sci. 163, 90-93, 1969.
14. M. Prinz and L.H. Larson: Arie Poldervaart 1918-1964. In Tribute, in *Igneous and metamorphic geology* (ed. L.H. Larsen, M. Prinz, and V. Manson), *Geol. Soc. Amer. Mem.* 115, 561 p., 1969.
15. L.H. Larsen, M. Prinz and V. Manson (eds.): *Igneous and metamorphic geology*. A volume in honor of Arie Poldervaart. *Geol. Soc. America Mem.* 115, 561 p., 1969.
16. M. Prinz: A review of geology in 1968. In "Collier's Encyclopedia Yearbook for 1968, 1969", Crowell-Collier Educational Corp., 261-262, 1969.
17. K. Keil, M. Prinz, and T.E. Bunch: Mineral chemistry of lunar samples. *Science* 167, 597-599, 1970.
18. C. Ponnampertuma, K. Kvenvolder, S. Chang, R. Johnson, G. Pollock, D. Philpott, I. Kaplan, J. Smith, J.W. Schopf, C. Gohrke, G. Hodgson, I.A. Breger, B. Holpern, A. Duffield, K. Kraushopf, E. Banghorn, H. Holland, and K. Keil: Search for organic compounds in lunar dust from the Sea of Tranquility. *Science* 167, 760-762, 1970.

19. T.E. Bunch, K. Keil, and E. Olsen: Mineralogy and petrology of silicate inclusions in iron meteorites. *Contrib Mineral. Petrol.* 25, 297-340, 1970.
20. K. Keil, T.E. Bunch, and M. Prinz: Mineralogy and composition of Apollo 11 lunar samples. *Geochim. Cosmochim. Acta*, Supplement 1 (Apollo 11 issue), 561-598, 1970.
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104. W.L. Mansker, R.C. Ewing and K. Keil: Barian-titanian biotites in nephelinites from Oahu, Hawaii. Geol. Soc. Amer., 1978.
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Translations from French

These translations are available from the National Speleological Society, Washington, D.C.

1. The physico-chemical evolution of moon-milk. R. Bernasconi, ATTI del Symposium Internazionale di Speleogia, 1960 (W.L. Mansker)
2. Actual status of the question of moonmilk. B. Geze, 1956 (W.L. Mansker)
3. Study of moonmilk from caves of Cambodia. C. Jatou (W.L. Mansker)
4. Nature of occasional lining of the Inner Walls or ground in caves (moon-milk). B. Geze, Academy of Sciences, 1956 (W.L. Mansker).

Appendix 7

Meetings and professional papers by members of the Institute of Meteoritics
since 1968.

Klaus Keil, Director

1. Annual Meeting of the Meteoritical Society, Cambridge, MA, October 7-11, 1968, Presented two papers:
 - a) Mineral composition and petrology of silicate inclusions in iron meteorites.
 - b) Chemistry of chromite in non-chondritic meteorites.
2. Joint Japanese-American discussion on "Progress in Electron Microprobe Analysis", University of Hawaii.
3. Honolulu, Hawaii, November 11-15, 1968. Presented paper on: Special applications of the electron microprobe.
4. Annual Meeting of the American Chemical Society, Symposium on Returned Lunar Sample, Minneapolis, MN, April 14-18, 1969. Presented paper on: Electron Microprobe x-ray analysis.
5. American Institute of Mining Engineers, Western Skies Motel, Albuquerque, NM, October 19, 1968. Presented talk on: Extraterrestrial rocks: their origin and significance.
6. University of Arizona, Tucson, AZ. Talk on "Apollo 11 and 12 returned lunar samples: Origin and history of the Moon", March 16-17, 1970.
7. Kiwanis, Albuquerque, NM. Talk on "The Apollo program". March 18, 1970.
8. American Association of Mining Engineers, Grants, NM. Talk on "Scientific exploration of the Moon". March 21, 1970.
9. Sigma Xi lecturer, University of New Mexico, Albuquerque, NM. Talk on "Apollo 11 and 12 rocks: Origin and history of the Moon." March 22, 1970.

10. Society of Plastic Materials, Albuquerque, NM. Talk on "The Moon", March 23, 1970.
11. Series of three (3) lectures at Sandia Laboratories, Albuquerque, NM, on "Minerals and rocks", March 23-25, 1970.
12. Series of three (3) lectures at Sandia Laboratories, Albuquerque, NM, on "meteorites and the Moon", March 30 - April 1, 1970.
13. Symposium on Meteorites and the Moon, London, England. Chairman of session on "mineralogy and petrology of meteorites", April 6-8, 1970.
14. Eleven (11) lectures given as part of lecture tour in Europe ("Scientific results of the Apollo program"), England, Switzerland, and West Germany, April 6-26, 1970.
15. Southwest Electron Probe Users Group, Sandia Laboratories, Albuquerque, NM, Talk on "Application of the electron microprobe x-ray analyzer in geology", May 1, 1970.
16. Intermountain Association of Geologists and Utah Geological Society, Salt Lake City, Utah, Talk on "Origin and History of the Moon". May 7, 1970.
17. American Chemical Society, New Mexico Chapter, Los Alamos, NM. Talk on "Apollo 11 and 12: History and origin of the Moon", May 15, 1970.
18. Albuquerque Rock Hounds. Talk on "Minerals, rocks, and the Moon". May 19, 1970.
19. The Society of American Military Engineers, Albuquerque, NM. Talk on "Exploration of the Moon", May 21, 1969.
20. Gordon Research Conference on Chemistry and Physics of Space, Tilton, New Hampshire. Invited talk on "Polymict-brecciated chondrites and implications to the history of meteorite parent bodies", July 2-11, 1969
21. Fourth Annual Meeting of the Electron Microprobe Society of America, Pasadena, CA. Chairman of session on "Geological applications", July 15-18, 1969.

22. Rotary Club, Albuquerque, NM. Talk on "Apollo Program", October 10, 1969.
23. Annual Meeting of the Meteoritical Society, Houston, TX. Presented two (2) talks on "Heating of a basalt with a CO₂ laser", and "The Burdett, Kansas, stone meteorite", October 28-31, 1969.
24. Industrial College of the Armed Forces, Sandia Base, Albuquerque, NM. Talk on "The Moon", December 15, 1969.
25. Apollo 11 Conference, Houston, TX. Talk on "Mineral chemistry of returned lunar samples", January 4-8, 1970.
26. Los Alamos Scientific Laboratory, Los Alamos, NM. Talk on "Origin and history of the Moon", January 13, 1970.
27. Albuquerque Geological Society. Talk on "Apollo 11: Scientific implications", January 22, 1970.
28. Harvard-Princeton-Yale Club, Albuquerque, NM. Talk on "Origin of the Moon" February 2, 1970.
29. Albuquerque Gem and Mineral Club. Talk on "Scientific exploration of the Moon", February 23, 1970.
30. Sandia Laboratories, Albuquerque, NM. Lecture series (3) on "Minerals and rocks". February 24-26, 1970.
31. New Mexico Highlands University, Las Vegas, NM. Two talks as Sigma Xi lecturer on "Scientific results of the Apollo program", and "Geology of the Moon", March 5, 1970.
32. Meeting of the International Mineralogical Association, Tokyo, and Kyoto, Japan, August 29 - September 10, 1970. Presented invited paper on "Apollo 11 rocks; origin and history of the Moon."
33. 28th Annual Meeting of the Electron Microscopy Society of America, Houston, TX. October 5-8, 1970. Presented invited paper on "Electron microprobe analysis of returned lunar samples".

34. Pacific Conference on Chemistry and Spectroscopy, San Francisco, CA, October 6-9, 1970. Presented invited talk on "Apollo 11 rocks and the history of the Moon".
35. Annual meeting of the New Mexico Mining Association and the Southwest International Mining Association, Carlsbad, NM. October 22-24, 1970. Presented invited talk on "Significance of Apollo 11 and 12 rocks to hypotheses on the origin of the Moon".
36. Annual Meeting of the Meteoritical Society, Shenandoah National Park, Skyland, VA, October 25-27, 1970. Co-author on two talks entitled "Lithic fragments and glasses from Apollo 12" and "Preparation of chondrule-like spherules with a CO₂ laser."
37. Penrose Conference on ultramafic rocks and the origin of the earth's mantle, Mesa, AZ, November 30 - December 4, 1970.
38. Apollo 12 Lunar Science Conference, Houston, TX, January 11-14, 1971. Presented paper on "Lithic fragments and glasses in Apollo 12".
39. First Plenary Conference on NASA Cooperative working agreements, Santa Clara, CA, February 3-6, 1971.
40. Annual Meeting of the Southwest Branch of AAAS and the Arizona Academy of Sciences. Presented invited Powell-Memorial lecture on "Origin and history of the Moon".
41. Annual meeting of the Meteoritical Society, Tübingen, West-Germany, August 23-26, 1971. Co-author of three papers: "The Landes silicate-bearing iron meteorite"; "A lunar feldspathic peridotite (12036) and its melt inclusions;" and "Chondrules of Lunar Origin."
42. Annual meeting of the Electron Microprobe Analysis Society of America, Pittsburgh, PA, July 27-30, 1971.
43. Albuquerque Astronomers, October 7, 1971. Presented talk on "Apollo rocks: Origin and history of the Moon."

44. Department of Physics, University of New Mexico, October 8, 1971.
Presented talk on "The earth's Moon :Origin and History."
45. 21 Club, University of New Mexico, October 18, 1971. "Apollo rocks and implications."
46. Annual meeting of the Geological Society of America, Washington, D.C., November 1-3, 1971. Presented talk on "Lithic fragments, glasses, and chondrules in Luna 16 samples." Co-author on two talks: "Zirkelite, a lunar uranium-bearing phase," and "Spinels and the petrogenesis of lunar rocks."
47. American Association of Aeronautical Engineers, Albuquerque, NM, November 11, 1971. Talk on "Lunar rocks and their origin."
48. New Mexico Paving Conference, December 9, 1971. Talk on "Lunar rocks and their origin."
49. Cordilleran Section of the Geological Society of America, Honolulu, Hawaii, March 29 - April 1, 1972. Presented talk on "Mineral chemistry of volcanic rocks from Maui, Hawaii: Feldspar." and co-author on a paper entitled "Mineral chemistry of volcanic rocks from Maui, Hawaii: Olivines ."
50. Third Lunar Science Conference, Houston, TX, January 10-14, 1972. Presented talk on "A chondrite of lunar origin: Textures, lithic fragments, glasses, and chondrules."
51. Alumni Association, University of New Mexico, Albuquerque, NM, February 15, 1972. Presented talk on "Apollo rocks: Origin and history of the Moon."
52. NASA Ames Research Center, Moffett Field, CA, April 30, 1972. Presented talk on "Synthetic, lunar, and meteorite chondrules."
53. University of California, La Jolla, May 2, 1972. Presented talk on "Synthetic, lunar, and meteoritic chondrules."

54. Annual Meeting, Electron Probe Analysis Society of America , San Francisco, CA, July 17-21, 1972. Presented invited talk on "Application of the electron microprobe in earth sciences".
55. International Geological Congress, Montreal, Canada, August 21-30, 1972. Presented invited talk on "Meteorite parent bodies."
56. Department of Geology and Center for Meteorite Studies, Arizona State University, Tempe, AZ, October 19-20, 1972. Presented talk on "Synthetic, lunar, and meteoritic chondrules."
57. Annual Meeting of the Group for the Analysis of Carbon Compounds in Meteorites and the Moon, Houston, TX, October 27-28, 1972. Presented talk on "Carbonaceous lithic fragments in ordinary chondrites."
58. Annual Meeting of the Geological Society of America, Minneapolis, MN, November 12-15, 1972. Co-author on two talks entitled "Non-Mare rock types in Apollo 15 rake samples" and "Mineral chemistry of volcanic rocks from Maui, Hawaii: Fe-Ti oxides."
59. Annual Meeting, Meteoritical Society, (Chicago, IL, November 16-18, 1972. Co-author on four talks entitled "Composition and origin of glasses and chondrules in Apollo 15 rake samples from Spur Crater." "Carbonaceous and non-carbonaceous lithic inclusions in the Plainview, Tx, chondrite;" "(Ti,Fe,Cr) $_{3+x}$ S₄, a new mineral in the Bustee enstatite achondrite;" and "The origin of chondrules: Experimental investigation of metastable liquid silicates."
60. American Society of Metals, Albuquerque, NM, February 16, 1973. Talk on "Geology of the Moon and Mars."
61. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, February 20-22, 1973.

62. Fourth Lunar Science Conference, Houston, TX, March 4-8, 1973. Talks on "Chemistry, mineralogy, and petrology of mare basalts from Apollo 15 rake samples" (with E. Dowty and M. Prinz), and "Ion microprobe study of high-alumina basaltic glasses" (with M. Prinz, E. Dowty, C.A. Andersen, and J. C. Hinthorne).
63. Questors, Albuquerque, NM, March 11, 1973. Talk on "Geology of the Moon: A Summary".
64. Edison Foundation Meeting, Albuquerque, NM, March 19, 1973. Talk on "Origin and history of the Moon."
65. New Mexico Highlands University, Las Vegas, NM, March 24, 1973. Talk on "What have we learned from the Apollo Program?"
66. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, March 27-30, 1973.
67. Industrial Conference, Department of Geology, University of New Mexico, Albuquerque, NM, March 31, 1973. Talk on "Electron microprobe analysis and application."
68. Viking Science Week on the Geology of Mars, NASA Langley Research Center, Newport News, Virginia, April 2-6, 1973. Talk on "Present state of knowledge of the geology of Mars."
69. Sigma Xi, Banquet Speaker, Nacodogches, TX, April 11, 1973. Talk on "The geology of Moon and Mars."
70. U.S. National Committee of Geochemistry, National Academy of Sciences, Semi-annual Meeting, Washington, D.C., April 12-13, 1973.
71. Sandia Laboratories, Albuquerque, NM, April 24, 1973. Talk on "The geological exploration of the Moon."
72. Electron Microscopy Society of New Mexico, Albuquerque, NM, April 25, 1973. Talk on "Electron microprobe analysis and applications."

73. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, May 1-2, 1973.
74. American Institute of Astronautics and Aeronautics, Albuquerque, NM, May 3, 1973. Talk on "Geology of Moon and Mars."
75. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, May 29-31, 1973.
76. University of Houston, Houston, TX, June 14-15, 1973. Talk on "The Geology of Mars."
77. Albuquerque Civitan Club, Albuquerque, NM, July 3, 1973. Talk on "The Geology of Moon and Mars."
78. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, July 9-10, 1973.
79. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, July 17-20, 1973.
80. Annual Meeting, Meteoritical Society, Davos, Switzerland, August 27 - September 2, 1973. Talks on "Composition and origin of LL-group chondrites," (with R. V. Fodor) and "Composition and origin of L- and H-group chondrites" (with R. V. Fodor).
81. Alumni Association, University of New Mexico, Roswell, NM, September 8, 1973. Talk on "The exploration of Moon and Mars."
82. Inorganic Analysis Science Team Meeting, Viking Mars Mission, Martin-Marietta Company, Denver, CO, September 20-21, 1973.
83. Department of Geology and Center for Meteoritic Studies, Arizona State University, Tempe, AZ, October 18-19, 1973. Talk on "Lithic inclusions in chondrites: Origin and history of parent meteorite bodies."
84. U.S. National Committee for Geochemistry, National Academy of Sciences Semi-annual meeting, Dallas, TX, November 9-10, 1973.

85. Inorganic Analysis Science Team Meeting, Viking Mars Mission and International Mars Colloquium, Jet Propulsion Laboratory, Pasadena, CA, November 28-29, 1973.
86. New Mexico Medical Association, Annual Meeting, Albuquerque, NM, December 7, 1973. Talk on "Exploration of the Moon and beyond."
87. Inorganic Analysis Science Team, Viking Mars Mission, Martin-Marietta Company, Denver, CO, December 11-12, 1973.
88. Meeting of Program Chairmen for Spring Annual Meeting, Washington, D.C., January 31 - February 1, 1974.
89. Viking Inorganic Chemical Analysis Team Meeting; St. Louis, MI, February 19-22, 1974.
90. Fifth Lunar Science Conference, Lunar Science Institute, Houston, TX, March 18-22, 1974. Co-author talk on "Crystalline rocks from Apollo 16 rake samples."
91. Annual meeting of the Cordilleran Section, Geological Society of America, Las Vegas, NV, March 29 - April 1, 1974. Co-author of talk on "Composition and origin of ultramafic nodules and megacrysts in rhyodacite from Oahu, Hawaii."
92. Meeting of the U.S. National Committee for Geochemistry, Washington, D.C. April 7, 1974.
93. Annual Meeting of the American Geophysical Union. Washington, D.C., April 8-10, 1974. Co-author of paper entitled "Cataclastic anorthosites from Apollo 16 rake samples."
94. Viking Inorganic Chemical Analysis Team Meeting, Denver, CO, April 11-12, 1974.
95. Lunar Sample Analysis Planning Team Meeting (LSAPT), Johnson Space Center, Houston, TX, April 21-28, 1974.

96. Training for Viking Mars Mission, Jet Propulsion Laboratory, Pasadena, CA, May 14-16, 1974.
97. Photographers of the Southwest, Santa Fe, NM, May 14-16, 1974. Talk on "To the Moon and On to Mars."
98. University of California, La Jolla, CA, June 25-29, 1974. Talk on "Brecciated chondrites, lunar breccias, and the origin and history of parent meteorite bodies."
99. University of California, La Jolla, CA, June 25-29, 1974. Talk on "Brecciated chondrites, Lunar breccias, and the origin and history of parent meteorite bodies."
100. Lunar Sample Analysis Planning Team Meeting (LSAPT), Johnson Space Center, Houston, TX, July 16-20, 1974.
101. Lunar Sample Analysis Planning Team Meeting (LSAPT), Johnson Space Center, Houston, TX, September 3-9, 1974.
102. Meeting of the International Mineralogical Association, Regensburg, West-Germany, September 15-21, 1974. Talk on "Origin and significance of lunar glasses."
103. Lunar Sample Analysis Planning Team Meeting (LSAPT), Johnson Space Center, Houston, TX, October 8-14, 1974.
104. Series of 25 lectures on "The origin of the solar system," Department of Geosciences, University of São Paulo, Brazil, October 21 - November 15, 1974.
105. Meeting of Geological Society of Brazil, Porto Alegre, Brazil, October 28 - November 1, 1974. Invited talk on "The geology of the Moon."
106. Public lecture on "To the moon and on to Mars." São Paulo, Brazil, November 13, 1974.
107. Meeting of the U.S. National Committee for Geochemistry, National Academy of Sciences. Miami Beach, FL, November 17, 1974.

108. Meeting of the Geological Society of America, Miami Beach, FL, November 18-20, 1974. Co-author on two papers entitled "Lithic fragments of granitic composition in Apollo 16 breccias," and "Inclusions of unusual composition in the Adams County chondrite."
109. Chemistry Department, University of California, La Jolla, CA, December 3, 1974. Talk on "Achondrites."
110. Lunar Sample Analysis Planning Team (LSAPT), Johnson Space Center, Houston, TX, December 4-9, 1974.
111. Chemistry Department, University of California, La Jolla, CA, December 11, 1974. Talk on "Lunar Breccias."
112. Chemistry Department, University of California, La Jolla, California, December 18, 1974. Talk on "Ca-Al-rich inclusions in Type II and HL-group chondrites."
113. Institute of Geophysics and Department of Chemistry, University of California, Los Angeles, CA, January 7, 1975. Talk on "Meteoritic, lunar and synthetic chondrules: Origin and history."
114. Lunar Sample Analysis Planning Team Meeting (LSAPT), NASA John Space Center, Houston, TX, January 23-27, 1975.
115. Martin-Marietta Company, Denver, CO. Meeting of the Viking Inorganic Analysis Science Team, March 6-8, 1975.
116. U.S. Geological Survey, Reston, VA, Meeting of the Viking Inorganic Analysis Science Team, March 13, 1975.
117. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, March 6, March 21-23, 1975.
118. Sixth Annual Lunar Science Conference, Johnson Space Center. Co-authored talk on "Mineralogy and petrology of mare basalts from Apollo 17 rake samples." March 17-20, 1975.

119. Facilities Subcommittee Meeting, Lunar Sample Analysis Planning Team, NASA Johnson Space Center, Houston, TX, April 27-30, 1975.
120. Sandia Laboratories, Albuquerque, presented talk on "Geological exploration of Mars: The U.S. Viking Program," May 1, 1975.
121. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, May 15-19, 1975.
122. Harvard University, Boston, MA, Chaired U.S. National Committee for Geochemistry, May 21-22, 1975.
123. Facilities Subcommittee meeting, LSAPT, NASA Johnson Space Center, Houston, TX, May 22-25, 1975.
124. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX. June 24 - June 30, 1975.
125. Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, Houston, TX, August 23-24, 1975.
126. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, Houston, TX, September 5-7, 1975.
127. Viking Inorganic Analysis Science Team Meeting, Institute of Meteoritics, Albuquerque, NM, September 19, 1975.
128. Facilities subcommittee meeting, LSAPT, NASA Johnson Space Center, Houston, TX, September 27-28, 1975.
129. Co-authored talk on "Supercooling of laser-melted silicates: Application to the formation of meteorites". Electrochemical Society, Dallas, TX, October 7, 1975.
130. Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, Houston, TX, October 23-26, 1975.
131. Field trip to U.S.G.S. Astrogeology Branch, Flagstaff,, AZ, and Meteorite Crater, Arizona, November 3-4, 1975.

132. Talk on "To the Moon and Beyond," for the Rock and Mineral Club, Carlsbad NM, November 17-18, 1975.
133. Facilities subcommittee meeting (LSAPT), NASA Johnson Space Center, Houston, TX, November 21-23, 1975.
134. Viking Inorganic Analysis Science Team Meeting, Jet Propulsion Laboratory Pasadena, CA, and Cal Tech, December 2-3, 1975.
135. Organized symposium on "Interrelationships among lunar and meteoritic breccias," served as session chairman, gave introductory lecture on "Interrelationships among lunar and meteoritic breccias", and presented talk on "The Melrose (b) howardite: A meteoritic parent body regolith breccia," Western AGU meeting; Jack Tar Hotel, San Francisco, CA, December 11, 1975.
136. Facilities subcommittee meeting (LSAPT), NASA Johnson Space Center, Houston, TX, December 12-15, 1975.
137. Visited California Institute of Technology, Pasadena, CA, and UCLA, December 29, 1975.
138. San Antonio, TX. Chaired Meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), January 18-20, 1976.
139. San Antonio, TX. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), February 5, 1976.
140. Houston, TX. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, February 6-8, 1976.
141. Pasadena, CA. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, February 26 - March 1, 1976.
142. Houston, TX. Chaired Facilities Subcommittee meeting, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, March 12-14, 1976.
143. Houston, TX. Seventh Annual Lunar Science Conference, NASA Johnson Space Center, Houston, TX, March 15-18, 1976.

144. Pasadena, CA. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, April 12-14, 1976.
145. Houston, TX. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, L.B. Johnson Space Center, Houston, TX, April 29 - May 2, 1976.
146. Pasadena, CA. Viking Flight to Mars, Jet Propulsion Laboratory, May 23-26, 1976, Uplink exercise.
147. Pasadena, CA. Viking Flight to Mars, Jet Propulsion Laboratory, June 1-19, 1976.
148. Houston, TX. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, June 20-24, 1976.
149. Pasadena, CA. Viking Flight to Mars, Jet Propulsion Laboratory, June 25-30, 1976.
150. Houston, TX. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, September 8-12, 1976.
151. Albuquerque, NM. Geological Society of Albuquerque, gave talk on "Geology of Mars: The U.S. Viking Missions", September 21, 1976.
152. Albuquerque, NM. American Society of Heating, Refrigerating, and Air-conditioning Engineers, Inc., presented talk on "The U.S. Viking Missions: Scientific Results." September 21, 1976.
153. La Jolla, CA. Presented talk on "Geochemistry of Mars: Preliminary results of the Viking X-ray fluorescence spectrometer," Department of Chemistry, University of California, September 30, 1976.
154. Albuquerque, NM. Presented talk in Popejoy Hall, University of New Mexico, on "The story of Viking: The U.S. Landings on Mars". This talk was attended by 1,700 people ! October 13, 1976.
155. Bethlehem, PA. Co-authored three talks at the Meteoritical Society Meeting Lehigh University, entitled "Notes on the chondrites from Northeastern New

- Mexico," "The Shaw meteorite: Evidence for an igneous origin", and "Studies of Brazilian meteorites III. Origin and history of the Angra dos Reis achondrite". Also, organized and chaired session on the Angra dos Reis Consortium and gave introductory address.
156. Miami, FL. Gave talks on "The origin and significance of meteorites" and "The Geology of Mars: The results of the U.S. Viking missions", Florida International University, October 21-22, 1976.
 157. Quoro Preto, Minas Gerais, Brazil. Participated as invited speaker at the meeting of the Geological Society of Brazil and presented an invited lecture on "The Geology of Mars: The U.S. Viking Mission". Furthermore, I presented nine (9) talks on Brazilian meteorites, entitled, "Estudo mineralogico, petrologico e quimico de meteoritos Brasileiros: revisao de um programa des pesquisa", "Evidencias de metamorfismo de choque no meteorito Paranaiba", "O augita achondrito Angra dos Reis e sua importancia para a origem e historia de seu corpo parental", "Meteorito Sao Jose do Rio Preto", "Meteorito Avandava", "Meteorito Conquista", "Meteorito Uberaba", "Meteorito Patrimonio", and "Meteorito Sete Lagoas".
 158. São Paulo, Brazil. Taught course on "Meteoritics" in the Graduate school of the Department of Geology, University of São Paulo, November 2-30, 1976.
 159. Brasilia, Brazil. Gave talk on "The geology of Mars: Results of the U.S. Viking Mission" at the Department of Geology, Federal University of Brasilia, November 18-19, 1976.
 160. Salvadore, Bahia, Brazil. Presented talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Departments of Geology and Chemistry, University of Bahia, as well as a popular talk on "The U.S. landings on Mars" before the Salvadore Rotary Club, December 4-9, 1976.

161. Recife, Pernambuco, Brazil. Presented lectures on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission", Department of Geology, University of Pernambuco, and presented popular talk on "The U.S. landings on Mars", December 10-13, 1976.
162. Grants, NM. Gave talk on "The geology of Mars: The U.S. Viking Mission" to the AIME, January 15, 1977.
163. Albuquerque, NM. Gave talk on "Composition and evolution of the Martian surface: Results of the Viking x-ray fluorescence experiment" at Sandia Laboratories, February 2, 1977.
164. Santa Fe, NM. Presented talk on "The U.S. Viking Missions to Mars" to the American Society of Mechanical Engineers, New Mexico Section. February 4, 1977.
165. Albuquerque, NM. Presented talk on "Scientific results of the U.S. Viking Missions to Mars", to the 21 Club, UNM, February 14, 1977.
166. Albuquerque, NM. Presented talk on "The geology of Mars: Results of the U.S. Viking Mars Landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.
167. Albuquerque, NM. Presented talk on "Exploration of Mars: The U.S. Viking Mission," to Albuquerque Rock Hounds, June 12, 1977.
168. Taos, NM. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.
169. São Paulo, Brazil. Presented talk on "Meteorites: Their significance for the origin of the planets and their bearing on hypotheses on the earth's interior", Department of Astronomy and Astrophysics, University of Sao Paulo, Brazil, 1977
170. Vancouver, British Columbia, Canada. Presented invited keynote address on "Evolution of the planets: Evidence from meteorites and lunar samples",

University of British Columbia, 1977.

171. Grants, NM. Ambassador Program, UNM, January 16, 1978.
172. Houston, TX. Lunar Sample Analysis Planning Team Meeting, February 2-5, 1978.
173. Santa Fe, NM. Presented talk on "Composition of the surface of Mars" to Santa Fe Geological Society, February 8, 1978.
174. San Diego, Ca. Presented talk on "Geological aspects of nuclear waste disposal", Edison Foundation Meeting, February 9-11, 1978.
175. Houston, TX. Attended Lunar and Planetary Science Conference and co-authored eight (8) papers on "Ureilites: Origin as related magmatic cumulates", "Martian surface materials: sample chemical differences and the trace element problem", "Search for pieces of the ancient lunar crust: A study of clasts in rock 67915", "Chemical trends among VLT mare basalts and glasses: Clues to the nature of their parent magmas", "Petrology of Apollo 17 deep drill core II. Agglutinates as recorders of fossil soil compositions", "Petrology of recrystallized ANT rocks from Apollo 17 rake samples: 72559 (anorthositic troctolite) and 78527 (norite)", "Clasts in breccias 77517 and 77538: Evidence for deep-seated and immiscible melt origins", and "Green glassy rock 78526: An impact melt of very low - Ti mare basalt?".
176. Albuquerque, NM. Presented talk on "Meteorites: Visitors from space", Albuquerque Gem and Mineral Club, April 8, 1978.
177. Albuquerque, NM. Presented talk on "Geological aspects of nuclear waste disposal", to Albuquerque Petroleum Club, April 25, 1978.
178. Tucson, AZ. Presented talk on "Speculations on the surface mineralogy and petrology of Mars", Planetary Sciences Department, University of Arizona, May 9, 1978.

Martin Prinz, Senior Research Associate

1. Apollo 11 Lunar Science Conference, Houston, TX. Talk on "Mineral chemistry of returned lunar samples", January 6-8, 1970.
2. Keynote speaker, Top Teen Conference, Boy Scouts and Girl Scouts of New Mexico, Albuquerque, NM, April 18, 1970.
3. First United Presbyterian Church, Adult Study Group, Albuquerque, NM. Talk on "Study of lunar samples", April 19, 1970.
4. Annual meeting of the Meteoritical Society, Shenandoah National Park, Skyland, VA, October 27-30, 1970. Co-author of paper on "lithic fragments and glasses from Apollo 12".
5. Annual meeting of the Geological Society of America, Milwaukee, WI, November 11-13, 1970. Presented talk on "Composition and origin of Apollo 11 lithic fragments and glasses".
6. Penrose conference on ultramafic rocks and the origin of the earth's mantle, Mesa, AZ, November 30 - December 4, 1970. Presented two talks on the San Carlos, AZ, ultramafic inclusion locality.
7. Apollo 12 Lunar Science Conference, Houston, TX, January 11-14, 1971. Co-author on a paper on "Lithic fragments and glasses in Apollo 12".
8. Meteoritical Society Meeting, Tübingen, West Germany, August 20-28, 1972. Presented two papers: "Chondrules of lunar origin," and "A lunar feldspathic peridotite (12036) and its melt inclusions."
9. Geological Society of America, Washington, D.C. November 1-3, 1971. Presented one paper on "Zirkelite in Apollo 12 and 14 rocks:" and co-authored four others, entitled "Spinels and the petrogenesis of some Apollo 12 samples:" "Ultramafic nodules from San Carlos, Arizona: Mineralogy and chemical composition:" "High pressure pyroxenite dikes in xenoliths from San Carlos, Arizona, and Salt Lake Crater, Hawaii:" and "Lithic fragments, glasses and chondrules from Luna 16 fines."

10. Third Lunar Science Conference, Houston, TX. January 10-13, 1972. Co-authored talk on "A chondrite of lunar origin: Textures, lithic fragments, glasses and chondrules."
11. Annual Meeting of the Geological Society of America, Minneapolis, MN, November 12-15, 1972. Co-author on a talk entitled "Non-mare rock types in Apollo 15 rake samples."
12. Annual Meeting, Meteoritical Society, Chicago, IL. November 16-18, 1972. Co-author on a paper entitled "Composition and origin of glasses and chondrules in Apollo 15 rake samples from Spur Crater."
13. Fourth Lunar Science Conference, Houston, TX, March 4-8, 1973. Co-author on two talks entitled "Chemistry, mineralogy, and petrology of mare basalts from Apollo 15 rake samples." and "Ion microprobe study of high-alumina basaltic glasses."
14. American Geophysical Union Meeting, Washington, D.C., April 13-19, 1973. Co-author on three talks entitled "Oxide minerals from Luna 20 fines" (with R. Brett, R. Gooley, K. Keil, C.E. Nehru, and E. Dowty); "Spinel and ilmenite from Apollo 15 igneous rocks" (with C.E. Nehru, K. Keil, and E. Dowty), and "A Model for the origin of Apollo 17 orange soil" (with E. Dowty and K. Keil).
15. Lunar Science Institute Conference on Lunar Petrology, July, 1973. Co-author of paper on "Rock types in the lunar highlands."
16. Geological Society of America Meeting, Dallas, TX, November 11-13, 1973. Co-author of paper on "Major element vapor fractionation on the lunar surface: An unusual lithic fragment from the Luna 20 fines."
17. Fifth Lunar Science Conference, Houston, TX. Co-author on paper entitled "Apollo 16 igneous rocks from the rake samples."
18. American Geophysical Union Meeting, Washington, D.C. April, 1974. Co-author on talk entitled "Cataclastic anorthosites from the Apollo 16 rake samples."

19. Soviet-American Conference on the Moon and the Planets, Moscow, June 4-8, 1974. Co-author of paper entitled "Comparison of lunar rocks and meteorites: Implications to histories of the Moon and parent meteorite bodies."
20. Gave lectures on the moon, meteorites, and terrestrial rocks during study assignment to Max-Planck Institute for Nuclear Physics, Heidelberg, West-Germany, January 15 - August 15, 1975, at the following institutions:
 - Max Planck Institute for Nuclear Physics, Heidelberg.
 - Department of Mineralogy, University of Heidelberg.
 - Max-Planck Institute for Chemistry, Mainz.
 - Department of Mineralogy, University of Göttingen.
 - Department of Petrology, University of Braunschweig.
 - University of Vienna, Austria.
 - Austrian Mineralogical Society, Vienna, Austria.
 - German Petrology Discussion Group , Annual Meeting, Heidelberg, West-Germany.

G. J. Taylor, Senior Research Associate

1. Bethlehem, PA. Attended Meteoritical Society meeting, Lehigh University and presented paper on "Cooling rates of LL-chondrites" and co-authored a paper on "The Shaw meteorite: Evidence for an igneous origin", October 18-21, 1977.
2. Houston, TX. Attended Lunar Science Conference, John Space Center, and presented paper on "Petrology of Apollo 17 deep drill core I. Depositional history based on modal analysis of 70009, 70008, and 70007," March 14-18, 1977.
3. Cambridge, England. Attended 40th Annual Meeting, Meteoritical Society, University of Cambridge, and gave talk on "Very low-Ti mare basalts", July 24-29, 1977.

4. Houston, TX. Attended Conference on Luna 24, Lunar Science Institute, and gave talk on "Chemical distinctions among very low-Ti mare basalts", December 1-3, 1977.
5. Houston, TX. L. B. Johnson Space Center, Attended Ninth Lunar and Planetary Science Conference and gave talk entitled "Chemical trends among VLT mare basalts and glasses: Clues to the nature of their parent magmas", March 13-17, 1978.

Eric Dowty, Post-doctoral Fellow

1. Third Lunar Science Conference, Houston, TX, January 10-13, 1972.
2. American Crystallographic Society Meeting, Albuquerque, NM, April 5, 1972. Presented talk on "Borate framework of Boracite and its relationship to the ferroelectric effects."

R. Fodor, Post-doctoral Fellow

1. Geological Society of America Meeting, Honolulu, Hawaii, April 1, 1972. Presented paper on "Mineral chemistry of volcanic rocks from Maui, Hawaii: Pyroxenes," and "Chemistry and petrology of the basalts and andesites of the Black Range, New Mexico," and co-authored a paper on "Mineral chemistry of volcanic rocks from Maui, Hawaii: Feldspars."
2. Annual Meeting, Geological Society of America, Minneapolis, MN. November 12-15, 1972. Co-author on talk entitled "Mineral chemistry of volcanic rocks from Maui, Hawaii: Fe-Ti oxides" (with K. Keil and T. E. Bunch).
3. Annual Meeting, Meteoritical Society, Chicago, IL, November 16-18, 1972. Co-author on talk entitled "Carbonaceous and non-carbonaceous lithic inclusions in the Plainview, TX, chondrite" (with K. Keil).
4. Travel to Europe, studying meteorite collections, and to present talk at the Meteoritical Society Meeting, Davos, Switzerland, August-September, 1973.

5. Salt Lake City, Utah. Annual Meeting, Geological Society of America, October 20-22, 1975.
6. Lamont-Doherty Geological Observatory, New York. Deep Sea Drilling Project, December, 1975.
7. Edinburgh, Scotland. Presented talk at the Oceanographic Congress on "Petrology of volcanic rocks from an aseismic rise: implications for the origin of the Rio Grande Rise, South Atlantic Ocean, September 15-24, 1976.
8. Seattle, WA. Gave talk on "Brecciated ordinary chondrites: Their origins and histories" at the Department of Oceanography, University of Washington, January 12-14, 1977.
9. Raleigh, NC. Presented talk on "Mineral chemistry of Hawaiian volcanic rocks" at the Department of Geology, North Carolina State University, March 13-15, 1977.

Richard D. Warner, Post-doctoral Fellow

1. Fifth Lunar Science Conference, Johnson Space Center, Houston, TX. March 18-22, 1974.
2. Salt Lake City, Utah. Annual Meeting, Geological Society of America, October 20-22, 1975.
3. Houston, TX. Conference on the origin of Mare basalts, Lunar Science Institute, November 17-19, 1975.
4. Houston, TX. NASA Johnson Space Center, Seventh Lunar Science Conference, March 15-19, 1976.
5. Houston, TX. Attended Eighth Lunar Science Conference, Johnson Space Center, and presented talk on "Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation". March 14-18, 1977.

6. Granville, OH. Presented talk on "Lunar basalts" at Owens-Corning Fiberglass Corporation Technical Center, March 28-29, 1977.
7. Houston, TX. Attended Ninth Lunar and Planetary Science Conference, Johnson Space Center, and co-chaired session on "Genesis and evolution of Mare basalts", March 13-17, 1978.
8. Laramie, WY. Presented talks on "Lunar mare basalts" and "Opaque oxide mineral crystallization in lunar high-titanium mare basalts", Department of Geology, University of Wyoming, March 28-29, 1978.

John Berkley, Post-doctoral Fellow

1. Attended Cordilleran Section Meeting, Geological Society of America, Las Vegas, Nevada, March 29-31, 1974.
2. Corvallis, OR. Oregon State University, October 15 - December 8, 1975.
3. Tours, France. Meteoritical Society Meeting, August, 1975.
4. Bethlehem, PA. Attended Meteoritical Society Meeting, Lehigh University and co-authored talk, October 18-21, 1976.
5. Denver, CO. Attended Annual Meeting of The Geological Society of America November 8-11, 1976.
6. Houston, TX. Johnson Space Center, Attended Ninth Lunar and Planetary Science Conference and gave talk on "Ureilites: Origin as related magmatic cumulates", March 13-17, 1978.

Gero Kurat, Post-doctoral Fellow

1. Apollo 12 Lunar Science Conference, Houston, TX. January 11-14, 1971.

D. Lange, Staff Scientist

1. Bethlehem, PA. Attended Meteoritical Society Meeting at Lehigh University and presented talk on "Notes on the chondrites from northeastern New Mexico," October 18-21, 1976.

2. Cambridge, England. Attended Meteoritical Society Meeting, University of Cambridge, and gave talk on "The Hickiwn, Arizona meteorite: An oriented stone" July 24-29, 1977.

Georgé Conrad, Electron Microprobe Specialist

1. Fifth Annual National Conference on Electron Probe Analysis, July 22, 1970.

F. Busche, Graduate Research Assistant

1. Albuquerque, Gem and Mineral Club, Talk on "Geology of the State of Hawaii" September 22, 1969.
2. Santa Fe Gem and Mineral Club. Talk on "Lunar sample geology", March 25, 1970.
3. Los Alamos Gem and Mineral Club. Talk on "Geology of the returned Apollo 11 samples", May 19, 1970.
4. Jacksonville, IL. Rotary Club. Talk on "Geology of the returned Lunar samples", June 12, 1970.
5. Apollo 12 Lunar Science Conference, Houston, TX. January 11-14, 1971.
6. Professional Engineers, Albuquerque, NM, October 27, 1972. Presented talk on "The Moon and what it has taught us."
7. Geological Society of America Meeting, Washington, D.C. November 1-3, 1971. Presented talk on "Spinels and the petrogenesis of some Apollo 12 samples"
8. Jeepherders Club, Albuquerque, NM, January 2, 1972. Presented talk on "What we have learned from trips to the Moon"
9. Heights Optimist Club, Albuquerque, NM, March 2, 1972. Presented talk on "The Moon and what it is made of"
10. National Secretarial Association, Albuquerque, NM, May 9, 1972. Presented talk on "The Moon and why it fascinates us"

11. New Mexico Nuclear Engineering Society, Albuquerque, NM, May 12, 1972.
Presented talk on "Apollo rocks and the origin of the Moon"

H. Gassaway Brown, Graduate Research Assistant

1. Attended Cordilleran Section Meeting, Geological Society of America, Las Vegas, Nevada, March 29-31, 1974.

J. L. Gooding, Graduate Research Assistant

1. Pasadena, CA. Assoc. Member of Inorganic Chemical Analysis Team, Viking Flight to Mars, June 1-Dec.30, 1976.
2. Albuquerque, NM. Gave talk on "The Viking Missions to Mars" to UNM Geology Department Seminar, February 15, 1977.
3. Socorro, NM. Invited speaker at Sigma Xi panel discussion on "Extra-terrestrial life" at New Mexico Institute of Mining and Technology, October, 1977.
4. Houston, TX. Johnson Space Center, Attended Ninth Lunar and Planetary Science Conference and presented talk on "Mineralogy, petrology and chemistry of individual chondrules". March 13-17, 1978.
5. Pasadena, CA. Jet Propulsion Laboratory. Presented talk on "Rock weathering on Mars" "A review of possible processes and products", March, 1978.

Paul Hlava, Graduate Research Assistant

1. Attended Lunar Petrology Conference, Houston, TX, July, 1973.

William Mansker, Graduate Research Assistant

1. Annual Meeting of the Geological Society of America, Dallas, TX, November, 1973. Presented talk on "Preliminary investigation of a Southeast-Missouri Kimberlite."

2. Salt Lake City, Utah. Annual Meeting Geological Society of America, Oct. 20-22, 1975.
3. Ann Arbor, Michigan. Attended Meeting of the American Geophysical Union (mid-western region), and presented talk on "Post-devonian diatremes in Southeast Missouri: Investigation of the Avan Kimberlite and some emplacement parameters", October 21-23, 1976.
4. Santa Fe, NM. Attended Second International Kimberlite Conference, Oct. 3-7, 1977.
5. Princeton, NJ. Attended Conference on Physics of Magma Genesis, Nov. 1977.
6. Albuquerque, NM. Dept. of Geology, UNM, seminar on "Kimberlites", Dec. 1977.
7. Provo, Utah. Attended Rocky Mountain Regional Meeting, Geological Society of America, April 27-30, 1978.

H. N. Planner, Graduate Research Assistant

1. Dallas, TX. 148th Annual Meeting, Electrochemical Society, Oct 5-9, 1975.

Steven Sibray, Graduate Research Assistant

1. Annual Meeting of the Geological Society of America, Dallas, TX, Nov. 1973.
2. Rocky Mountain Section Meeting, Geological Society of America, Flagstaff, AZ.
3. Attended Base Metals and Flourspar Deposits Conference, June, 1974. Socorro, NM.

R. Skaggs, Graduate Research Assistant

1. Annual Meeting of the Meteoritical Society, Houston, TX Talk on "Heating of a basalt with a CO₂ laser", October 28-31, 1969.

2. Annual Meeting of the Meteoritical Society, Shenandoah National Park, Skyland, VA, October 27-30, 1971. Presented paper on "Preparation of chondrule-like spherules with a CO₂ laser"

Terry Steinborn, Graduate Research Assistant

1. Cordilleran Section Meeting, Geological Society of America, March, 1974, Las Vegas, Nevada.
2. Rocky Mountain Section Meeting, Geological Society of America, Flagstaff Arizona, April 1974.

R. G. Warren, Graduate Research Assistant

1. Denver, CO. Summer geologic assistant, Exxon Company, May 25 - August 31, 1976.

Georgianna Honea, Undergraduate Research Assistant

1. Attended Geological Society of America Meeting, Flagstaff, AZ

Since 1968, members of the Institute of Meteoritics have participated in 269 meetings and presented papers at most of them. Of these, 35 were papers presented by students (at meetings attended by students).

Appendix 8

U.S. and foreign visiting scholars in the Institute of Meteoritics since 1968.

These U.S. and foreign visiting scholars came to UNM for periods ranging from days up to 1 year, for the purpose of research and lecturing. Note that only outside, non-UNM funds were used to attract these scholars to the Institute.

1. U.S. visiting scholars at the Institute of Meteoritics since 1968

1968

Dr. Milton Blander
North American Rockwell Science Center,
Thousand Oaks, California

Dr. Arch M. Reid
Geological Research Division
University of California, San Diego
La Jolla, California

Dr. Kurt Fredriksson
Smithsonian Institution
U.S. National Museum
Washington, D.C.

1969

Dr. Milton Blander
North American Rockwell Science Center,
Thousand Oaks, California

Dr. Theodore E. Bunch
Space Sciences Division
NASA Ames Research Center
Moffett Field, California

Professor Truman P. Kohman
Department of Chemistry
Carnegie-Mellon University
Pittsburgh, Pennsylvania

Dr. K.G. Snetsinger
Space Science Division
NASA Ames Research Center
Moffett Field, California.

1970

Mr. Tom Teska
Planetary Sciences Laboratory
University of Arizona
Tucson, Arizona

Dr. C.E. Nehru
Department of Geology
Brooklyn College
New York, New York

Dr. C.P. Sonett
Space Sciences Division
NASA Ames Research Center
Moffett Field, California

Prof. H.E. Suess
Chemistry Department
University of California
La Jolla, California

1971

Dr. M. Blander
North American Rockwell Science Center
Thousand Oaks, California

Dr. D. Fisher
Department of Oceanography
University of Miami
Miami, Florida

Prof. Carleton B. Moore
Center for Meteorite Research
Arizona State University
Tempe, Arizona

1972

Dr. Howard Wilshire
U.S. Geological Survey
Menlo Park, California

Prof. G. Kuiper
Planetary Sciences Department
University of Arizona
Tucson, Arizona

Dr. C.E. Nehru
Dept. of Geology
Brooklyn College
Brooklyn, New York

1973

Dr. Harrison H. Schmitt, Science Astronaut
L.B. Johnson Space Center
Houston, Texas

Prof. Cornelis Klein
Dept. of Mineralogy
Indiana University
Bloomington, Indiana

Dr. T.E. Bunch
Space Sciences Division
NASA Ames Research Center
Moffett Field, California

Dr. Peter R. Buseck
Department of Chemistry
Arizona State University
Tempe, Arizona

1974

Dr. C.E. Nehru
Department of Geology
Brooklyn College
Brooklyn, New York

Dr. A. Boettcher
Department of Mineralogy
Pennsylvania State University
College Park, Pennsylvania

Dr. John Wasson
Chemistry Department
University of California
Los Angeles, California

Dr. H.S. Yoder
Carnegie Institution
Geophysical Laboratory
Washington, D.C.

Dr. M. Blander
Argonne National Laboratory
Argonne, Illinois

Dr. Eric Lifshin
General Electric Research Laboratories
Schenectady, New York

Dr. Bevan French
National Science Foundation
Washington, D.C.

1975

Dr. C.E. Nehru
Department of Geology
Brooklyn College
Brooklyn, New York

Dr. L. Haskin
L.B. Johnson Space Center
NASA
Houston, Texas

Dr. J. Soffen
NASA Langley Research Center
Hampton, Virginia

Dr. J. Peaupeau
Washington University
McDonnell Center for the Space Sciences
St. Louis, Missouri

1976

Dr. Laurel Wilkening,
Dept. of Planetology,
University of Arizona
Tucson, Arizona

Prof. W.C. Luth
Geology Dept.
Stanford University
Stanford, California

Dr. G.J. Taylor
Dept. of Geology
Washington University
St. Louis, Missouri

Prof. Hans E. Suess
Chemistry Department
University of California
La Jolla, California

Dr. T.E. Bunch
Space Sciences Division
NASA Ames Research Center
Moffett Field, Calif.

Dr. James Hinthorne,
Applied Research Laboratories
Goleta, California

Dr. G.W. Lugmair,
Chemistry Dept.
University of California
La Jolla, Calif.

Dr. Robin Brett
U.S. Geological Survey
Reston, Virginia

Dr. Odette James
U.S. Geological Survey,
Reston, Virginia

Dr. Buford Price
Physics Dept.
University of California
Berkley, Calif.

Mr. John Harris
NASA L.B. Johnson Space Center
Houston, Texas

Dr. David Curtis,
Los Alamos Scientific Laboratory
Los Alamos, NM

Dr. C.E. Nehru
Dept. of Geology,
Brooklyn College
New York, N.Y.

Dr. Ross Heath
Dept. of Oceanography
University of Rhode Island
Kingston, Rhode Island

Dr. Milton Blander
Argonne National Laboratory
Argonne, Illinois

Dr. Usman Sayeed
Florida International University
Miami, Florida

1977

Dr. C.H. Simonds
Lunar Science Institute
Houston, Texas

Dr. K.F.J. Heinrich
Nat'l. Bureau of Standards
Washington, D.C.

Dr. Martin Prinz
Dept. of Mineral Sciences
American Museum of Natural History
New York, New York

Dr. M. Blander
Argonne Natl. Laboratory
Argonne, Ill.

Dr. Usman Sayeed
Florida International University
Miami, Florida

Dr. Lee Rudy
University of California
La Jolla, California

Dr. James Gunnerson
Nebraska State Museum
Lincoln, Neb.

Dr. J. Saxena
Dept. of Geology
Brooklyn College
Brooklyn, New York

Dr. Robert Clementidis
Dept. of Mineral Sciences
American Museum of Natural History
New York, New York

Dr. Robert Dietz
Dept. of Geology
Arizona State University
Tempe, Arizona

Dr. C.E. Nehru
Dept. of Geology
Brooklyn College
Brooklyn, N.Y.

Dr. J. McSween
Dept. of Geology
University of Tennessee
Knoxville, Tenn.

Dr. G. Dixon
U.S. Geological Survey
Denver, Col.

Mr. F. Maldonado
U.S. Geological Survey
Denver, Colorado

1978

Dr. C.E. Nehru
Dept. of Geology
Brooklyn College
Brooklyn, New York

Dr. E. Simpson
U.S. Geological Survey
Denver, Colorado.

Dr. Martin Prinz
Dept. of Mineralogy
American Museum of Natural History
New York, N.Y.

Dr. David Joy
Bell Laboratories
Murray Hill, N.J.

2. Foreign visiting scholars at the Institute of Meteoritics since 1968

1968

Prof. Theodore Ernst
Mineralogisches Institut der Universität
Erlangen, Germany

Dr. A.A. Smales
Atomic Research Establishment
Harwell, England

Dr. Hans Voshage
Max Planck Institut für Chemie
Mainz/Rhein, West Germany

Prof. H. Wänke
Max Planck Institut für Chemie
Mainz/Rhein, West Germany

1970

Prof. M. O'Hara
Grant Institute of Geology
Edinburgh, Scotland

1971

Dr. A. Schreiber
Geological Survey
Hannover, West-Germany

Dr. Y.U. Frolov
Academy of Sciences, USSR
Moscow, USSR

Dr. Th. Weiser
Geological Survey
Hannover, West-Germany

Mr. Clive Feathers
South Africa Diamond Concern
Cape Town, South Africa

1972

Prof. S.R. Taylor
Department of Geology and Geophysics
Australian National University
Canberra, Australia

Prof. Howard Axon
Department of Metallurgy
Manchester University
Manchester, England

Dr. Dieter Stöffler
Department of Mineralogy and Petrology
University of Tübingen
Tübingen, West Germany

1973

Prof. David Green
Geology Department
Australian National University
Canberra, Australia

Prof. F. Freund
Mineralogy and Geochemistry Department
University of Cologne
Cologne, West-Germany

Prof. W. von Engelhardt
Department of Mineralogy
University of Tübingen
Tübingen, West-Germany

Dr. Peter Jakeš
Czechoslovakian Geological Survey
Prague, Czech.

1974

Dr. Dieter Stöffler
Department of Mineralogy
University of Tübingen
Tübingen, West-Germany

Dr. D. Szimtenings
Gutenberg University
Mainz, West-Germany

Dr. Gero Kurat
Department of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

1975

Dr. Gero Kurat
Department of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

Dr. W. Paar
Department of Mineralogy
University of Salzburg
Salzburg, Austria

Prof. Hans Korkish
Department of Analytical Chemistry
University of Vienna
Vienna, Austria

1976

Dr. Ahmed El Goresy
Max Planck Institute for Nuclear Chemistry
Heidelberg, West-Germany

Dr. Heinz Scharbert
Dept. of Petrology
University of Vienna
Vienna, Austria

Prof. C.B. Gomes
Dept. of Mineralogy and Petrology
University of São Paulo,
São Paulo, Brazil

Prof. Ralph Kretz
Dept. of Geology
McGill University
Ottawa, Canada

Dr. Gero Kurat,
Dept of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

Dr. A.R. Binder
Dept. of Geophysics
University of Kiel
Kiel, West-Germany

Dr. Elisabeth Kirchner,
Dept. of Mineralogy,
University of Salzburg
Salzburg, Austria

1977

Dr. Robert Hutchison,
British Museum,
London, England

Dr. H. Wakita
University of Tokyo
Tokyo, Japan

Dr. Nikolai Sobolev
Institute of Geology
Academy of Sciences of the USSR
Siberian Branch
Novosibirsk, USSR

1978

Dr. Celso B. Gomes
Institute of Geosciences
University of Sao Paulo
Sao Paulo, Brazil

Dr. A. Kracher
Dept. of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

Since 1968, 66 U.S. and 35 foreign scholars have visited the Institute of Meteoritics for periods of days to one year for study, research, and seminars. Note that only outside grant moneys were used to attract these scholars to UNM.

Appendix 9

Professional travel of members of the Institute of Meteoritics since1968Klaus Keil, Director

1. Annual Meeting of the Meteoritical Society, Cambridge, Mass., October 7-11, 1968.
2. Joint Japanese-American discussion on "Progress in Electron Microprobe Analysis". Sponsored by the National Academy of Sciences and the Japan Society for Promotion of Science (10 selected Japanese and U.S. participants). East-West Center, University of Hawaii, Honolulu, Hawaii, November 11-15, 1968.
3. Meteorite expedition to Pueblito de Allende, Chihuahua, Mexico, February 12-15, 1969.
4. Annual Meeting of the American Chemical Society, Symposium on the Returned Lunar Sample, Minneapolis, Minn., April 14-18, 1969.
5. Meeting of Principal Investigators of the Returned Lunar Sample, NASA Manned Spacecraft Center, Houston, Texas, April 28-30, 1969.
6. Tilton, New Hampshire; Gordon Research Conference on Chemistry and Physics of Space, July 6-10, 1969.
7. Pasadena, California; 4th National Conference on Electron Microprobe Analysis, July 15-18, 1969.
8. La Jolla, California; University of California, July 19-22, 1969.
9. Moffett Field, California; NASA Ames Research Center, August 4-8, 1969.
10. Houston, Texas; Manned Spacecraft Center, September 16-17, 1969.
11. Houston, Texas; Annual Meeting of the Meteoritical Society, October 28-31, 1969.
12. Houston, Texas; Manned Spacecraft Center, Apollo 11 Conference, January 4-8, 1970.

13. Los Alamos, New Mexico; Scientific Laboratory, U.S. Atomic Energy Commission, January 13, 1970.
14. Las Vegas, New Mexico, New Mexico Highlands University, Sigma Xi Speaker, March 5-6, 1970.
15. Tucson, Arizona; University of Arizona, March 16-17, 1970.
16. Grants, New Mexico; Mining Engineers, March 21, 1970.
17. London, England; Symposium on Meteorites and the Moon, April 6-8, 1970.
18. Switzerland (Zürich, Berne) and West-Germany (Augsburg, Hannover, Mainz, Bonn, Cologne); lecture tour, April 9-25, 1970.
19. Washington, D.C.; Annual Meeting of the National Academy of Sciences, April 27-28, 1970.
20. Los Alamos, New Mexico; American Chemical Society, May 15, 1970.
21. Salt Lake City, Utah; Intermountain Association of Geologists and Utah Geological Society Meeting, May 7-8, 1970.
22. Islands of Oahu, Maui, and Hawaii: field work, July 28 - August 28, 1970.
23. Tokyo and Kyoto, Japan; meeting of the International Mineralogical Association (U.S. Representative on the Commission on Cosmic Mineralogy), with field trips to Mt. Fuji and the Nagatoro area, August 29 - September 10, 1970.
24. Houston, Texas: 28th Annual Meeting of the Electron Microscopy Society of America, October 5-8, 1970.
25. San Francisco, California; Pacific Conference on Chemistry and Spectroscopy, October 6-9, 1970.
26. Carlsbad, New Mexico: Annual Meeting of the New Mexico Mining Association and the Southwest International Mining Association, October 22-24, 1970.
27. Shenandoah National Park, Skyland, Virginia, Annual Meeting of the Meteoritical Society, October 25-27, 1970.

28. Saguaro Guest Ranch, Mesa, Arizona; Penrose Conference on ultramafic rocks and the origin of the earth's mantle. November 30, - December 4, 1970.
29. Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.
30. Santa Clara, California; First Plenary Conference with NASA Ames Research Center, Moffett Field, California, February 3-6, 1971.
31. Socorro, New Mexico; New Mexico Institute of Mining and Technology, March 17, 1971.
32. Phoenix, Arizona; Meeting of the Southwest Branch of the American Association for the Advancement of Science and the Arizona Academy of Sciences, April 22-24, 1971.
33. Islands of Maui, Kauai, and Oahu; field work, June 7 - July 10, 1971.
34. Pittsburgh, Pennsylvania, Sixth Ann. Conf. on Electron Microprobe Analysis, July 27-30, 1971.
35. Washington, D.C.; Ann. Meeting of the Geological Society of America; November 1-3, 1971.
36. Washington, D.C., Meeting of the National Committee on Geochemistry of the National Academy of Sciences, November 1-3, 1971.
37. Houston, Texas; pick-up of Apollo 15 rocks and study of thin sections at the Lunar Receiving Laboratory; December 9-10, 1971.
38. Houston, Texas; Third Lunar Science Conference; January 10-13, 1972.
39. Los Alamos, New Mexico; talk on "Apollo rocks: Origin and History of the Moon," February 15, 1972.
40. Honolulu, Hawaii; Ann. Meeting, Cordilleran Section, Geological Society of America; March 29-April 1, 1972.
41. Moffett Field, California; talk on "Synthetic, lunar, and meteoritic chondrules;" April 30, 1972.
42. La Jolla, California; talk on "Synthetic, lunar, and meteoritic chondrules," May 2, 1972.

43. Petrified Forest; Flagstaff, San Francisco Volcanic Field, and Meteorite Crater; Field trip for students taking course on "Meteorites, the Moon, and the Origin of the Solar System;" May 22-25, 1972.
44. Islands of Molokai and Oahu, Hawaii; field work on volcanic rocks; June 13 - July 16, 1972.
45. San Francisco, California; Ann. Meeting, Electron Probe Analysts Society of America, July 17-21, 1972.
46. Manned Spacecraft Center, Houston, Texas; preliminary examination of 151 Apollo 16 rake samples, July 30-August 4, 1972.
47. Martin Marietta Company, Denver, Colorado; Viking Inorganic Analysis Team Meeting, August 7-9, 1972.
48. Montreal, Canada; International Geological Congress, August 21-30, 1972.
49. Martin Marietta Company, Denver, Colorado; Viking Inorganic Analysis Team Meeting, September 18-21, 1972.
50. U.S. Geological Survey, Washington, D.C.; Viking Inorganic Analysis Team Meeting, October 11-13, 1972.
51. New Orleans, Louisiana; U.S. National Committee for Geochemistry, National Academy of Sciences, Semi-Ann. Meeting, October 13-14, 1972.
52. Arizona State University, Tempe, Arizona; talk on "Synthetic, lunar, and meteoritic chondrules," October 19-20, 1972.
53. Jet Propulsion Laboratory, Pasadena, California; Briefing for Viking Inorganic Analysis Team, October 25-26, 1972.
54. Lunar Science Institute, Houston, Texas; Ann. Meeting of the Group for the Analysis of Carbon Compounds in meteorites and the Moon, October 27-28, 1972.
55. Lunar Science Institute, Houston, Texas; Lunar Science Review Board Meeting, October 29-31, 1972.

56. Minneapolis, Minnesota; Ann. Meeting, Geological Society of America, November 12-15, 1972.
57. University of Chicago, Chicago, Illinois; Ann. Meeting, Meteoritical Society, November 16-18, 1972.
58. Cape Kennedy, Florida, and Vero Beach, Florida; Launch of Apollo 17 and Lunar Science Review Board Meeting, December 8-21, 1972.
59. Hasler Research Center, Goleta, California; Ion microprobe work on meteorites, December 26-30, 1972.
60. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science Team meeting. February 20-22, 1973.
61. Houston, Texas; Fourth Lunar Science Conference. Talks on "Chemistry mineralogy, and petrology of mare basalts from Apollo 15 rake samples" (with E. Dowty and M. Prinz), and "Ion microprobe study of high-alumina basaltic glasses" (with M. Prinz, E. Dowty, C.A. Andersen, and J.R. Hinthorne). March 4-8, 1973.
62. Martin-Marietta company, Denver, Colorado. Viking Mission to Mars, Science Team meeting, March 27-30, 1973.
63. NASA Langley Research Center, Newport News, Virginia. Viking Science Week, entitled "Geology of Mars". Talk on "Present state of knowledge of the geology of Mars". April 2-6, 1973.
64. Nacodogches, Texas. Sigma Xi Banquet Speaker. Talk on "The geology of Moon and Mars". April 11, 1973.
65. National Academy of Sciences, Washington, D.C. Meeting of the U.S. National Committee of Geochemistry (Chairman). April 12-13, 1973.
66. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science Team Meeting. May 1-2, 1973.
67. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science Team Meeting. May 29-31, 1973.

68. University of Houston, Houston, Texas. Talk on: "The geology of Mars".
June 14-15, 1973.
69. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science
Team Meeting, July 9-10, 1973.
70. Manned Spacecraft Center, Houston, Texas. Work on Apollo 17 Rake Samples.
July 11-13, 1973.
71. Martin-Marietta Company, Denver, Colorado. Work on X-ray fluorescence
instrument, Viking Mission to Mars, July 17-20, 1973.
72. Germany, Austria and Switzerland. Lecture tour and study leave. July
29-September 4, 1973.
73. Max Planck Institute of Chemistry, Mainz, Germany. July 30-August 2, 1973.
74. Department of Mineralogy, University of Salzburg, Austria. August 15-19,
1973.
75. National Museum for Natural History, Vienna, Austria. August 20-26,
1973.
76. Annual Meeting, Meteoritical Society, Davos, Switzerland. August 27-
September 2, 1973.
77. Roswell, New Mexico. Exhibition of lunar samples and talk on "The
exploration of Moon and Mars". September 8, 1973.
78. Lunar Science Institute, Houston, Texas. Meeting of the Lunar Science
Review Panel (Chairman, Mineralogy-Petrology Section). September 9-17, 1973.
79. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science
Team Meeting. September 20-21, 1973.
80. Lunar Science Institute, Houston, Texas. Meeting of the Lunar Science
Review Panel (Chairman, Mineralogy-Petrology Section). October 11-15, 1973.
81. Department of Geology and Center for Meteorite Studies, Arizona State
University, Tempe, Arizona. Talk on "Lithic inclusions in chondrites:
Origin and history of parent meteorite bodies". October 18-19, 1973.

82. NASA Headquarters, Washington, D.C. Meeting of the Lunar Synthesis Review Board. November 4-10, 1973.
83. National Academy of Sciences, U.S. National Committee of Geochemistry (Chairman). Semi-annual meeting in Dallas Hilton Hotel, Dallas, Texas. November 9-10, 1973.
84. Jet Propulsion Laboratory, Pasadena, California. Viking Mission to Mars, Science Team Meeting, and International Colloquium on Mars. November 28-29, 1973.
85. Martin-Marietta Company, Denver, Colorado. Viking Mission to Mars, Science Team Meeting, December 11-12, 1973.
86. Washington, D.C. Meeting of Program Chairmen for Spring Annual Meeting. January 31-February 1, 1974.
87. St. Louis, Missouri. Viking Inorganic Chemical Analysis Team Meeting and wind tunnel tests. February 19-22, 1974.
88. Houston, Texas. Fifth Lunar Science Conference, Lunar Science Institute. March 18-22, 1974.
89. Las Vegas, Nevada. Ann.Meeting of the Cordilleran Section, Geological Society of America. March 29-April 1, 1974.
90. Washington, D.C. Meeting of the U.S. National Committee for Geochemistry. April 7, 1974.
91. Washington, D.C. Ann. Meeting of the American Geophysical Union. April 8-10, 1974
92. Denver, Colorado. Viking Inorganic Chemical Analysis Team Meeting. April 11-12, 1974.
93. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, Johnson Space Center. April 21-28, 1974.
94. Pasadena, California. Training for Viking Mars Mission. May 14-16, 1974.

95. Santa Fe, New Mexico. Talk to Photographers of the Southwest. May 17, 1974.
96. La Jolla, California. Talk and research at University of California, Ocean Deep Drilling Project. June 25-29, 1974.
- Sabbatical leave, fall semester, 1974. During this time, the following travel took place, including research away from UNM, presentation of lectures, participation in professional meetings, field work, public service on committees, etc. (items 97 to 113).
97. La Jolla, California. Talk and Research at University of California, Ocean Deep Drilling Project. June 25-29, 1974.
98. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, Johnson Space Center, July 15-19, 1974.
99. Honolulu, Hawaii, with one week stops each on Kauai and Hawaii. Field work with two students. July 30-August 30, 1974.
100. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting at Johnson Space Center. September 3-9, 1974.
101. Mainz, West-Germany. Max-Planck Institute for Chemistry. September 11-14, 1974.
102. Regensburg, West-Germany. Annual Meeting of the German Mineralogical Society, under the auspices of the Meeting of the International Mineralogical Association. Presented invited talk and served as Session Chairman, as well as Chairman of the Commission on Cosmic Mineralogy, International Mineralogical Association. September 15-22, 1974.
103. Vienna, Austria. Museum for National History. Studied meteorites and wrote paper with G. Kurat. September 24-29, 1974.
104. Heidelberg, West-Germany. Max-Planck Institute for Nuclear Physics. Arranged exchange of meteorites with University of New Mexico. September 30, 1974.

105. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, Johnson Space Center. October 10-14, 1974.
106. São Paulo, Brazil. Department of Geosciences, University of São Paulo, Brazil. Was invited to present 25 lectures on "The Origin of the Solar System" (Distinguished Visiting Professorship), assisted in their electron microprobe laboratory and gave lectures. October 17-November 15, 1974.
107. Porto Alegre, Brazil. Presented invited talk at the Annual Meeting of the Geological Society of Brazil, Porto Alegre, Brazil. October 28-November 1, 1974.
108. Rio de Janeiro, Brazil. Studied meteorite collection at the Brazilian National Museum, Rio de Janeiro, Brazil. November 8-10, 1974.
109. Miami Beach, Florida. Chaired meeting of the U.S. National Committee for Geochemistry, National Academy of Sciences. November 17, 1974.
110. Miami Beach Florida. Presented talk at the Annual Meeting of the Geological Society of America. November 18-20, 1974.
111. La Jolla, California. Presented three talks and worked on meteorites and lunar samples in the Dept. of Chemistry, University of California, La Jolla, California. November 30, 1974-January 15, 1975.
112. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, Johnson Space Center, December 4-9, 1974.
113. Los Angeles, California. Presented talk at Institute of Geophysics and Department of Chemistry, University of California, Los Angeles, California. January 7, 1975.
114. Houston, Texas. Started mapping and cutting of lunar consortium breccia 67435 (K. Keil, Consortium Leader) in the Lunar Receiving Laboratory, NASA Johnson Space Center, Houston, Texas, January 21-23, 1975.
115. Houston, Texas, Lunar Sample Analysis Planning Team (LSAPT) Meeting NASA Johnson Space Center. January 23-27, 1975.

116. Denver, Colorado. Meeting of Viking Inorganic Analysis Science Team, Martin Marietta Company. March 6-8, 1975.
117. Reston, Virginia. Meeting of Viking Inorganic Analysis Science Team, U.S. Geological Survey. March 13, 1975.
118. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, March 16, March 21-23, 1975.
119. Houston, Texas, Sixth Annual Lunar Science Conference, Johnson Space Center. March 17-20, 1975.
120. Houston, Texas. Facilities Subcommittee Meeting. LSAPT, NASA Johnson Space Center, April 27-30, 1975.
121. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, May 15-19, 1975.
122. Boston, Massachusetts. U.S. National Committee for Geochemistry Meeting, Harvard University, May 21-22, 1975.
123. Houston, Texas. Facilities Subcommittee Meeting, LSAPT, NASA Johnson Space Center, May 22-25, 1975.
124. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting NASA Johnson Space Center, June 24-June 30, 1975.
125. Moffett Field, California. Discussion of joint meteorite research with Dr. T.E. Bunch, Ames Research Center, July 7, 1975.
126. Honolulu, Hawaii. Field work and collection of cores of basaltic rocks to be shipped to UNM for research in the Institute of Meteoritics, July 27-August 20, 1975.
127. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, August 23-24, 1975.
128. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, September 5-7, 1975.

129. Houston, Texas. Facilities Subcommittee Meeting, LSAPT, NASA Johnson Space Center, September 27-28, 1975
130. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, October 23-26, 1975.
131. Flagstaff, Arizona, and Meteorite Crater, Arizona. Field trip for students to U.S.G.S. Astrogeology Branch and study of Meteorite Crater, November 3-4, 1975.
132. Carlsbad, New Mexico. Talk before the Rock and Mineral Club, November 17-18, 1975.
133. Houston, Texas. Facilities Subcommittee Meeting, LSAPT, NASA Johnson Space Center, November 21-23, 1975.
134. Pasadena, California. Viking Inorganic Analysis Science Team Meeting, Jet Propulsion Laboratory, California Institute of Technology, December 2-3, 1975.
135. San Francisco, California. Annual meeting of the American Geophysical Union, Jack Tar Hotel, December 11, 1975.
136. Houston, Texas. Facilities Subcommittee Meeting, LSAPT, NASA Johnson Space Center, December 12-15, 1975.
137. Pasadena, California, and Los Angeles, California. Visited California Institute of Technology and UCLA and organized joint consortium work on meteorites, December 29, 1975.
138. San Antonio, Texas. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), January 18-20, 1976.
139. San Antonio, Texas. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), February 5, 1976.
140. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT), NASA-Johnson Space Center, February 6-8, 1976.
141. Pasadena, California. Viking Flight to Mars, uplink training session,

Jet Propulsion Laboratory, February 26-March 1, 1976.

142. Houston, Texas. Chaired Facilities Subcommittee meeting, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, March 12-14, 1976.
143. Houston, Texas. Seventh Annual Lunar Science Conference, NASA Johnson Space Center, Houston, Texas, March 15-18, 1976.
144. Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, April 12-14, 1976.
145. Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, April 29, May 2, 1978.
146. Pasadena, California. Viking Flight to Mars, uplink exercise, Jet Propulsion Laboratory, May 23-26, 1976.
147. Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 1-19, 1976.
148. Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, June 20-24, 1976.
149. Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 25-30, 1976.
150. Pasadena, California. Jet Propulsion Laboratory. Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars.
151. Houston, Texas. Chaired Lunar Sample Analysis Planning Team meeting, Johnson Space Center, Sept. 9-12, 1976.
152. La Jolla, California. Gave talk on "Geochemistry of Mars: Preliminary results of the Viking x-ray fluorescence spectrometer", Dept. of Chemistry, University of California, Sept. 30, 1976.
153. Bethlehem, Pa. Attended Meteoritical Society Meeting, chaired session and gave talks, Lehigh University, Oct. 18-20, 1976.

154. Miami, Florida. Gave talk on "The origin and significance of meteorites" and "The Geology of Mars: The results of the U.S. Viking Mission", Florida International University, Oct. 21-22, 1976.
155. São Paulo, Brazil. Research on Brazilian meteorites at the University of São Paulo, Brazil, Oct. 25-29, 1976.
156. Ouro Preto, Minas Gerais, Brazil. Participated as invited speaker at the meeting of the Geological Society of Brazil and presented nine (9) talks on Brazilian meteorites and one invited lecture on "The Geology of Mars: The U.S. Viking Mission", Oct. 29-Nov. 1, 1976.
157. São Paulo, Brazil. Research on Brazilian meteorites and class on "Meteoritics" at the University of São Paulo, Nov. 2-Nov. 30, 1976.
158. Brasília, Brazil. Talk on "The Geology of Mars: Results of the U.S. Viking Mission" at the Department of Geology, Federal University of Brasília, Nov. 18-19, 1976.
159. Rio de Janeiro, Brazil. Studied Brazilian meteorites in the Museu Nacional, Nov. 30-Dec. 3, 1976.
160. Salvadore, Bahia, Brazil. Talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Department of Chemistry and Geology, University of Bahia, as well as a popular lecture on "The U.S. Landings on Mars" for the Salvadore Rotary Club., Dec. 4-9, 1976.
161. Recife, Pernambuco, Brazil. Lectured on "The origin and significance of meteorites" and "The geology of Mars; Results of the U.S. Viking Mission" in the Department of Geology, University of Pernambuco, as well as presented popular talk on "The U.S. landings on Mars", Dec. 10-13, 1976.
162. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, Jan. 13-14, 1977.

163. Grants, New Mexico. Talk on the "Geology of Mars: The U.S. Viking Missions" to the AIME, Jan. 15, 1977.
164. Houston, Texas. Chaired meeting of the Lunar Sample Analysis Planning Team, Johnson Space Center, Jan. 26-30, 1977.
165. Washington, D.C. Participated in meeting of the Lunar and Planetary Council, Universities Research Association, Feb. 17-18, 1977.
166. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, March 1-2, 1977.
167. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, March 11-13, 1977.
168. Santa Fe, New Mexico. Presented talk on "The U.S. Viking Missions to Mars", the American Society of Mechanical Engineers, New Mexico Section Feb. 4, 1977.
169. Houston, Texas. Attended Lunar Science Conference and co-authored three talks, Johnson Space Center, March 14-17, 1977.
170. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, April 18-20, 1977.
171. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, April 27-May 1, 1977.
172. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Houston, Texas, June 17-20, 1977.
173. Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.
174. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, July 10-22, 1977.

175. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Sept. 8-11, 1977.
176. São Paulo, Brazil. Research on Brazilian meteorites and nuclear waste disposal in the Institute of Geology, University of São Paulo, Sept. 26-Oct. 14, 1977.
177. Vancouver, British Columbia, Canada. Invited keynote Speaker at the "Science Spectrum '77", University of British Columbia. Nov. 4-6, 1977.
178. Seattle, Washington. Attended Geological Society of America Annual Meeting and served as Citation Speaker to award the Roebling Medal of the Mineralogical Society of America to Prof. R. Castaing, University of Paris at Orsay, France. Nov. 7-8, 1977.
179. Meteorite Crater and San Francisco Volcanic Field, Arizona. Lead field trip for my students in course #513 & 513L. (Meteoritics and Cosmochemistry). Nov. 11-13, 1977.
180. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center. Nov. 17-20, 1977.
181. Houston, Texas. Attended meeting on Luna 24 Russian returned lunar samples, and co-authored 4 papers. Lunar Science Institute. Dec. 1-3, 1977.
182. Moffett Field, California. Meeting of the Lunar and Planetary Science Council, Universities Space Research Association, NASA Ames Research Center. Dec. 3-10, 1977.
183. Grants, New Mexico. UNM Ambassador program. June 16, 1978.
184. Las Vegas, Nevada. Meeting on potential of shale at Nevada test site for disposal of high-level nuclear waste. Jan. 26-27, 1978.
185. Houston, Texas, Chaired Lunar Sample Analysis Planning Team Meeting, NASA Johnson Space Center, Feb. 2-5, 1978.

186. Santa Fe, New Mexico. Presented talk on "Chemical and mineralogical composition of the surface of Mars" to Santa Fe Geological Society, Feb. 8, 1978.
187. San Diego, California. Presented invited talk on "Geological aspects of nuclear waste disposal" before the Edison Foundation Meeting, Feb. 9-11, 1978.
188. Houston, Texas. Meeting of Lunar and Planetary Science Council, Lunar Science Institute, March 11-12, 1978.
189. Houston, Texas. Lunar and Planetary Science Conf., NASA Johnson Space Center, co-authored eight (8) talks, March 13-16, 1978.
190. Tucson, Arizona. Presented talk on "Speculations on the surface mineralogy and chemistry of Mars", Planetary Sciences Dept., Univ. of Arizona, May 9-10, 1978.
191. Houston, Texas. Meeting of the Antarctic Meteorite Working Group, Lunar Science Institute, May 11-12, 1978.
192. Houston, Texas. Chaired Meeting of the Lunar Sample Analysis Planning Team, NASA Johnson Space Center, May 13-15, 1978.
193. Taos, New Mexico. Gave talks on "Meteorites and their significance for hypotheses on the origin of the solar system" and "What next in space" to the UNM German Summer School (in German), June 29-30, 1978.

Martin Prinz, Senior Research Associate

1. Atlantic City, New Jersey; Geological Society of America, November 10-12, 1969.
2. Houston, Texas; Apollo 11 Lunar Science Conference, January 4-8, 1970.
3. Flagstaff, Arizona; International Symposium on Mechanical Properties and Processes in the Mantle (with 4 day field trip to diatremes and kimberlite pipes of northern Arizona), June 24-July 3, 1970.
4. Shenandoah National Park, Skyland, Virginia; Annual Meeting of the Meteoritical Society, October 27-30, 1970.

5. Miami, Florida; Visit to Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, October 31-November 2, 1970.
6. Milwaukee, Wisconsin; Annual Meeting of the Geological Society of America, November 11-13, 1970.
7. New York, New York; visit to Brooklyn College, Department of Geology, November 14-15, 1970.
8. Mesa, Arizona; Penrose Conference on ultramafic rocks and the earth's mantle, November 30-December 4, 1970.
9. Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.
10. Moffett Field, California; visit Space Science Division, NASA Ames Research Center, and conduct research, June 1-July 31, 1971.
11. Tübingen, West-Germany; Ann. Meeting of the Meeting of the Meteoritical Society; August 20-28, 1971.
12. Washington, D.C.; Ann. Meeting of the Geological Society of America; November 1-3, 1971.
15. Houston, Texas; Third Lunar Science Conference; January 10-13, 1972.
14. Minneapolis, Minnesota; Ann. Meeting, Geological Society of America, November 12-15, 1972.
15. University of Chicago, Chicago, Illinois; Ann. Meeting, Meteoritical Society, November 16-18, 1972.
16. Houston, Texas; Fourth Lunar Science Conference, March 4-8, 1973.
17. Washington, D.C. American Geophysical Union Ann. Meeting, November 14-19, 1973.
18. Travel to Africa to attend First International Kimberlite Conference. Studied geological features in Kenya (African Rift Valley and associated volcanics), Tanzania (Ngorogoro caldera), South Africa and Lesotho (about 30 diamond-bearing kimberlite pipes, including two underground mines).

19. Travel to study meteorite collections for future research at American Museum of Natural History, New York; British Museum Museum National d'Histoire Naturelle, Paris; Mineralogical Museum, Leningrad, and Mineralogical Museum, Moscow.
20. Travel to NASA Johnson Space Center, Houston, Texas, to study lunar samples for preparation of a catalogue and also to study lunar thin section collections.
21. Work and study assignment at the Max-Planck Institute of Nuclear Physics, Heidelberg, West-Germany, January 15, 1975-August 15, 1975.

G.J. Taylor, Senior Research Associate

1. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, and presented a paper on "Cooling rates of LL-chondrites" and co-authored a paper on "The Shaw meteorite: Evidence for an igneous origin", Oct. 18-21, 1976.
2. Houston, Texas. Attended Lunar Science Conference, Johnson Space Center, and presented paper on 'Petrology of Apollo 17 deep drill core I. Depositional history based on modal analyses of 70009, 70008, and 70007", March 14-18, 1977.
3. Cambridge, England. 40th Annual Meeting, Meteoritical Society, July 24-29, 1977. Gave talk on "Very low-Ti mare basalts".
4. Houston, Texas. Lunar Science Institute. Conference on Luna 24, Dec. 1-3, 1977. Gave talk on "Chemical distinctions among very low-Ti mare basalts".

Dave Lange, Staff scientist

1. Madison, Wisconsin, to attend Tracor Northern Scientific Training School, May 13-17, 1974.
2. Los Angeles, California, 37th Annual Meeting of the Meteoritical Society, UCLA, August 7-9, 1974.

3. Bethlehem, Pa. Attended Meteoritical Society Meeting at Lehigh University and presented talk on "Notes on the chondrites from northeastern New Mexico", Oct. 18-21, 1976.
4. Washington, D.C. Visited meteorite collection of the U.S. National Museum, Smithsonian Institution, October 22-25, 1976.
5. New York, N.Y. Visited Meteorite Collection of the American Museum of Natural History, Oct. 26-28, 1976.
6. Denver, Colorado. Attended Ann. Meeting of the Geological Society of America, Nov. 8-12, 1976.
7. Cambridge, England. 40th Ann. Meeting, Meteoritical Society, July 24-29, 1977. Presented paper on "The Hickiwan Arizona, chondrite: an oriented stone".

Eric Dowty, Postdoctoral Fellow

1. Houston, Texas; Third Lunar Science Conference; January 10-13, 1972.
2. Houston, Texas. Fourth Lunar Science Conference, March 4-8, 1973.

R.V. Fodor, Postdoctoral Fellow

1. Houston, Texas; Annual Meeting of the Meteoritical Society, October 28-31, 1969.
2. Tempe, Arizona; studied Nininger meteorite collection at Arizona State University; March 1972.
3. Honolulu, Hawaii; Ann. Meeting, Cordilleran Section, Geological Society of America; March 29-April 1, 1972.
4. Kauai, Hawaii; Field work on volcanic rocks; April 2-10, 1972.
5. Laramie, Wyoming; Ann. Meeting, Geological Society of America; May 11, 1972.
6. Washington, D.C.; study of Meteorite Collection of the U.S. National Museum; May, 1972.
7. New York, N.Y.; study of Meteorite Collection, American Museum of Natural History; May, 1972.

8. Minneapolis, Minnesota; Ann. Meeting, Geological Society of America, November 12-15, 1972.
9. University of Chicago, Chicago, Illinois; Ann. Meeting, Meteoritical Society, November 16-18, 1972.
10. Study leave (one week) at the Field Museum of Natural History, Chicago, Illinois, to select meteorite for study. March, 1973.
11. Travel to Europe, to visit and study meteorite collections in European Museums, and to present a talk at the Meteoritical Society Meeting, Davos, Switzerland, August-September, 1973.
12. South Atlantic Ocean. Igneous petrologist on board of the Glomar Challenger for Deep Sea Drilling Project, Leg 39B, November 1-December 25, 1974.
13. Salt Lake City, Utah. Ann. Meeting, Geological Society of America, Oct. 20-22, 1975.
14. Lamont-Doherty Geological Observatory, New York. Deep Sea Drilling Project, Dec. 1975.
15. Edinburgh, Scotland. Presented talk at the Oceanographic Congress, on "Petrology of volcanic rocks from an aseismic rise: implications for the origin of the Rio Grande Rise, South Atlantic Ocean", Sept. 15-24, 1976.
16. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, Oct. 18-20, 1976.
17. Seattle, Washington. Gave talk on "Brecciated ordinary chondrites: their origins and histories" at the Department of Oceanography, University of Washington, Jan. 12-14, 1977.
18. Raleigh, N.C. Presented talk on "Mineral chemistry of Hawaiian volcanic rocks" at the Department of Geology, North Carolina State University, March 13-15, 1977.

R.D. Warner, Postdoctoral Fellow

1. Houston, Texas. To map lunar consortium breccia 67435, NASA Johnson Space Center, January 21-24, 1975.
2. Houston, Texas. Sixth Lunar Science Conference, NASA Johnson Space Center, March 16-21, 1975.
3. Washington, D.C. American Geophysical Union Meeting, June 13-22, 1975.
4. Salt Lake City, Utah. Ann. Meeting, Geological Society of America, Oct. 20-22, 1975.
5. Houston, Texas. Conference on the origin of Mare basalts, Lunar Science Institute, Nov. 17-19, 1975.
6. Houston, Texas. NASA Johnson Space Center, Seventh Lunar Science Conf., March 15-19, 1976.
7. Denver, Colorado. Attended the Ann. Meeting of the Geological Society of America, Nov. 8-11, 1976.
8. Houston, Texas. Attended Eighth Lunar Science Conference, Johnson Space Center, and presented talk on "Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation, " March 14-18, 1977.
9. Granville, Ohio, Presented talk on "Lunar basalts" at Owens-Corning Fiberglass Corporation Technical Center, March 28-29, 1977.
10. Houston, Texas. Ninth Lunar Science Conf., March 13-17, 1978. Co-chaired session on "Genesis and evolution of basalts".
11. Laramie, Wyoming. Presented talks on "Lunar mare basalts" and "Opaque oxide crystallization in lunar high-titanium mare basalts", March 28-29, 1978.

J.L. Berkley, Postdoctoral Fellow

1. Corvallis, Oregon. Oregon State University, Oct. 15-Dec. 8, 1976.
2. Tours, France. Meteoritical Society Meeting, August, 1975.

3. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, and co-authored talk, Oct. 18-21, 1976.
4. Denver, Colorado. Attended Ann. Meeting of the Geological Society of America, Nov. 8-11, 1976.
5. Houston, Texas. Ninth Lunar and Planetary Science Conf., March 13-17, 1978. Presented talk on "Ureilites; Origin as related magmatic cumulates".

Gero Kurat, Postdoctoral Fellow

1. Houston, Texas; Apollo 12 Lunar Science Conference, Jan. 11-14, 1971.
2. Houston, Texas; visit Lunar Science Institute, March 17-22, 1971.
3. Southwest New Mexico; field trip with Prof. Kelley, April 1-4, 1971.
4. San Carlos, Arizona; field trip to ultramafic rock locality, May 16, 1971.
5. Moffett Field, California; visit Space Sciences Division, NASA Ames Research Center, May 24-June 1, 1971.

George Conrad, Electron Microprobe Specialist

1. Pasadena, California; Conference of Electron Microprobe Analysis Society of America, July 15-18, 1969.
2. New York, New York; National Conference on Electron Probe Analysis, July 22-24, 1970.
3. New Orleans, Louisiana. Electron Probe Analysis Society of America, Annual Meeting, August 10-15, 1973.
4. Travel to Madison, Wisconsin, to attend Tracor Northern Scientific Training School, May 13-17, 1973.
5. Miami, Florida. Attended Eleventh Ann. Conf. of the Microprobe Society of America, August 9-13, 1976.
6. São Paulo, Brazil. Assisted Prof. C.B. Gomes in setting-up and maintenance of the electron microprobe laboratory, Department of Geology, University of São Paulo, Sept. 1-30, 1976.

H. Gassaway Brown, IV, Graduate Research Assistant

1. Travel via automobile to the University of Wisconsin, Madison; Cornell University, Ithaca, New York; and Baltimore, Maryland. August, 1973.
2. Los Angeles, California. Cordilleran Section Meeting of the Geological Society of America, March 25-27, 1975.

Fred Busche, Graduate Research Assistant

1. Houston, Texas; Annual Meeting of the Meteoritical Society, October 28-31, 1969.
2. Santa Fe, New Mexico; Gem and Mineral Club, March 25, 1970.
3. Los Alamos, New Mexico, Gem and Mineral Club, May 19, 1970.
4. Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.
5. San Carlos, Arizona; field trip to ultramafic rock locality, May 16, 1971.
6. Moffett Field, California; Research on lunar samples; June 1-August 1, 1971.
7. Washington, D.C.; Ann. Meeting, Geological Society of America; November 1-3, 1971.
8. Houston, Texas; Third Lunar Science Conference; January 10-13, 1972.

G.R. Huss, Graduate Research Assistant

1. Pasadena, Calif. Jet Propulsion Laboratory, was an Associate member of the Inorganic Chemical Analysis Science Team, U.S. Viking Mars Missions, Jan. 1-Aug. 15, 1977.
2. Pasadena, Calif. Jet Propulsion Laboratory. Work on Viking mission for 2 weeks each in Oct. 1977, Dec., 1977, Jan., 1978, April, 1978, and June, 1978.

J.L. Gooding, Graduate Research Assistant

1. Pasadena, California. Assoc. Member of Inorganic Chemical Analysis Team, Viking Flight to Mars, June 1-June 30, 1976.
2. Pasadena, Calif. Jet Propulsion Laboratory, was an Associated Member of the Inorganic Chemical Analysis Science Team, U.S. Viking Mars Missions, May 15-Dec. 30, 1976.

3. Corvallis, Oregon. Studied at the Radiation Center, Oregon State University, June 1-30, 1977.
4. Socorro, New Mexico. New Mexico Institute of Mining and Technology, Oct. 16, 1977. Invited speaker, Sigma Xi panel discussion on "Extraterrestrial life".
5. Houston, Texas. Ninth Lunar and Planetary Science Conf., March 13-17, 1978. Presented paper on "Mineralogy, petrology and chemistry of individual meteorite chondrules".
6. Pasadena, California. Jet Propulsion Laboratory, May 25,26, 1978. Presented invited talk on "Rock weathering on Mars: A review of possible processes and products."
7. Corvallis, Oregon. Studied at the Radiation Center, Oregon State University, June 1-30, 1978.

Gayle Lux, Graduate Research Assistant

1. New York, N.Y. New York Academy of Sciences Conf. on "expanding the role of Women in science", March 6-8, 1978.

W.L. Mansker, Graduate Research Assistant

1. Salt Lake City, Utah. Ann. Meeting, Geological Society of America, Oct. 20-22, 1975.
2. Ann Arbor, Michigan. Attended meeting of the American Geophysical Union (midwestern Region), and presented talk on "Post-devonian diatremes in Southeast Missouri: Investigation of the Avan Kimberlite and some emplacement parameters", Oct. 21-23, 1976.
3. Denver, Colorado. Attended the Ann. Meeting of the Geological Society of America. Nov. 8-11, 1976.
4. Santa Fe, New Mexico. Second International Kimberlite Conference and pre-meeting field trip, Oct. 3-7, 1977.

5. Washington, D.C. Visited Carnegie Institution, Geophysical Laboratory, Nov. 6-8, 1977.
6. Princeton, N.J. Conference on Physics of magma Genesis, Nov. 12-15, 1977.
7. Provo, Utah. Rocky Mt. Regional Geol. Soc. Amer. Meeting, April 27-30, 1978.

H.N. Planner, Graduate Research Assistant

1. Dallas, Texas. 148th Ann. Meeting, Electrochemical Society, Oct. 5-9, 1975.
2. Sonoma, Calif. Attended the Geological Society of America Penrose Conference on "The application of crystal growth theory and experiments to rock-forming processes, " Nov. 28-Dec. 3, 1976.

Steve Sibray, Graduate Research Assistant

1. Attended the Annual Meeting of the Geological Society of America, Dallas, Texas.
2. Attended the Rocky Mountain Section Meeting of the Geological Society of America, Flagstaff, Arizona, and participated in field trips to Hopi Buttes-Buell Park Diatremes.

Robert Skaggs, Graduate Research Assistant

1. Shenandoah National Park, Skyland, Virginia; Annual Meeting of the Meteoritical Society, October 27-30, 1970.
2. Moffett Field, California; visit Space Sciences Division, NASA Ames Research Center, March 2, 1971.

Terry Steinborn, Graduate Research Assistant

1. Attended the Rocky Mountain Section Meeting of the Geological Society of America, Flagstaff, Arizona.
2. Attended the Cordilleran Section Meeting of the Geological Society of America, Las Vegas, Nevada, March 1974.

Richard Warren, Graduate Research Assistant

1. Los Angeles, California. Cordilleran Section Meeting of the Geological Society of America, March 25-27, 1975.

2. Denver, Colorado, Summer geologic assistant, Exxon Comp., May 25-August 31, 1976.
3. Denver, Colorado. Summer employment as exploration geologist for Exxon Co., USA, Uranium Division, May 24-Aug. 20, 1976.
4. Los Alamos, New Mexico. Summer employment as geologist, for Los Alamos Scientific Laboratory, May 23-Aug. 19, 1977.

Dorothy Boyer, Undergraduate Research Assistant

1. Fort Stanton Cave: frequent trips for the purpose of studying the cave environment.

R. Cox, Undergraduate Research Assistant

1. Three-day field trip to Four Corners Region, to study petroleum production.

Georgianna Honea, Undergraduate Research Assistant

1. Geological Society of America Meeting, Flagstaff, Arizona. May, 1974.
2. Los Angeles, California. Cordilleran Section Meeting of the Geological Society of America, March 25-27, 1975.

Total number of professional travel by members of the Institute of Meteoritics since 1968: 315. Note that the overwhelming majority of these professional travels to meeting etc. were financed by out-side grants and contracts.

Appendix 10

Other professional activities by members of the Institute of Meteoritics since 1968.

Klaus Keil, Director

1968 - 1969

Sandia Research Colloquium, Sandia Laboratories, Albuquerque, November 27, 1968.

Presented talk on: Origin and history of meteorites.

Albuquerque Astronomy Club, December 11, 1968. Presented talk on "Meteorites."

Albuquerque Geological Society, January 21, 1969. Presented talk on "Mineralogy and petrology of the surface of the Moon: the returned lunar sample program".

Albuquerque Gem and Mineral Club, January 27, 1969. Presented talk on "Meteorites."

Department of Chemistry, New Mexico Highlands University, Las Cruces, NM. Presented talk on "origin and significance of meteorites". May 25, 1969.

Initiated joint colloquium series between Sandia Laboratories and the Department of Geology and Institute of Meteoritics.

Editorial consultant, Plenum Press, New York.

Reviewed papers for The American Mineralogist; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Reviewed two proposals submitted for funding to NASA.

1969 - 1970

Reviewed three (3) proposals submitted to NASA for funding.

Reviewed approximately twelve (12) papers for publication in the following journals: American Mineralogist, Geochimica et Cosmochimica Acta, Meteoritics, and Science.

Consultant, Sandia Laboratories, Albuquerque, NM.

Organized exhibition and presentation of results of Moon rocks for New Mexico State Legislators and public. Gave talk on "Apollo Program."

Organized exhibition of Moon rocks for Engineering Open House, UNM College of Engineering.

Several live and taped TV and radio appearances dealing with work on the returned lunar samples.

1970 - 1971

Reviewed two (2) scientific proposals submitted for funding to the National Science Foundation.

Reviewed three (3) scientific proposals submitted for funding to the National Aeronautics and Space Administration.

Reviewed eleven (11) scientific articles submitted for publication in American Mineralogist, Geochimica et Cosmochimica Acta, Meteoritics, Science, and Earth and Planetary Science Letters.

Consultant, Sandia Corporation, Albuquerque, NM.

Seven (7) taped and live television broadcasts and four (4) live radio shows dealing with the scientific results of the Apollo missions.

Trained Mr. Tom Teska, technician, University of Arizona, Tucson, Arizona, as a microprobe operator.

Dr. Th. Weiser, Geological Survey, Hannover, West-Germany, spent three (3) months in the Institute (on the expense of the West-German government) to study electron microprobe techniques.

Chairman of a meeting at UNM's Department of Geology and Institute of Meteoritics of the Group for the Analysis of Carbon Compounds in Carbonaceous Chondrites and Returned Lunar Samples.

Presented talk before the Optimist Club, Albuquerque, NM, concerning the Apollo program. (September 25, 1970).

Presented two (2) talks at the New Mexico Institute of Mining and Technology, Socorro, NM, concerning returned lunar samples. (March 17, 1971).

Presented a talk before the New Mexico Medical Association, Albuquerque, NM, (April 1, 1971), on "Origin of the Moon."

Presented two (2) talks at New Mexico Highlands University, entitled "Origin and history of the crust of the moon," and "Composition of deeper parts of the earth's crust." (May 16, 1971).

Presented three (3) talks at Highland High School, Albuquerque, NM, concerning the scientific aspects of the Apollo program (May 18, 1971).

1971 - 1972

Reviewed two (2) scientific proposals submitted for funding to the National Science Foundation.

Reviewed eight (8) scientific proposals submitted for funding to the National Aeronautics and Space Administration.

Reviewed fourteen (14) scientific articles submitted for publication in American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Consultant, Sandia Corporation, Albuquerque, NM.

Consultant, Nord Resources Corporation, Albuquerque, NM.

Eight (8) live and taped television broadcasts and four (4) live radio shows dealing with the scientific results of the Apollo missions.

Trained Dr. Th. Weiser, Geological Survey of Germany, in the use of the electron microprobe x-ray analyzer and data reduction by computer.

1972 - 1973

Reviewed one (1) scientific proposal submitted for funding to the National Science Foundation.

Reviewed one hundred and twenty-four (124) scientific proposals submitted for funding to the National Aeronautics and Space Administration.

Reviewed twenty-two (22) scientific articles submitted for publication in American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Consultant, Sandia Corporation, Albuquerque, NM.

Eight (8) live and taped television broad casts and seven (7) live radio shows dealing with the scientific results of Apollo missions and the Viking Program to study Mars.

Trained Professor C. B. Sclar, Lehigh University, Bethlehem, Pennsylvania in the use of the electron microprobe (July 31 - August 10, 1972).

Trained Mr. Glenn Bauer, Honolulu Board of Water Supply, Honolulu, Hawaii, in the use of the electron microprobe (August 1 - 24, 1972).

Consortium leader, Mineralogy-Petrology, to organize and study in the U.S. the Luna 20 Lunar samples returned by the Russians.

Chaired the meeting of the Commission on Meteorites of the International Geological Congress, Montreal, Canada.

Chaired the meeting of the Commission on Cosmic Mineralogy of the International Mineralogical Association, Montreal, Canada.

Chaired session on "Moon: Mineralogy and Petrology," Annual Meeting, Meteoritical Society, Chicago, IL, November 15, 1972.

Presented talk on "Composition of Mars: The U.S. Viking Program," to the Albuquerque Geological Society, October 17, 1972.

Presented talk on "From Moon to Mars" to the Albuquerque Chapter, Mechanical Engineering Society, December 13, 1972.

1973 - 1974

Reviewed 138 proposals submitted to NASA for funding, via the Lunar Sample Analysis Panel.

Reviewed 38 proposals submitted to NASA for funding, via the Ad hoc Panel for Lunar Data Synthesis.

Reviewed 24 scientific articles submitted for publication in The American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics, and Science.

Consultant, Sandia Corporation, Albuquerque, NM.

Two live TV and 2 live radio appearances (30 minutes each), concerning the Apollo Program.

Chaired session at The Meteoritical Society Meeting, Davos, Switzerland.

Presented talk on "University response to national priorities: The U.S. Space Program," Seminar on Higher Education in the Americas, UNM, Albuquerque, NM.

Chaired session on "Characterization and evolution of the lunar crust" at the Fifth Lunar Science Conference, Houston, TX.

1974 - 1975

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed hundreds of lunar sample requests submitted by scientists to the Lunar Sample Analysis Planning Team.

Reviewed 16 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Several taped and live TV and radio shows on the Apollo Program and The U.S. Viking Program.

1975 - 1976

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed six lunar sample proposals submitted to NASA for funding.

Reviewed 17 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

TV interview with Kathy Schroeder on the U.S. Viking Program, August 27, 1975.

TV interview with Mr. Wellington on the U.S. Viking Program.

Hosted Inorganic Chemical Analysis Science Team, U.S. Viking mission to Mars, in the Institute of Meteoritics (Drs. A. Baird, Pomona, CA; H. Rose and P. Toulmin, U.S.G.S., Reston, Virginia; B. Clark and A. Castro, Martin Marietta, Denver, CO; and W. Kelliher, NASA Langley Research Center, Hampton, VA), September 18-19, 1975.

Radio interview on "The U.S. Viking Program: Exploration of Mars", December 18, 1975.

Radio interview on "The U.S. Mars Mission", KRKE 610, January 4, 1976.

Television interview with channel 5 on "Mission to Mars," January 29, 1976.

1976 - 1977

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed four lunar sample proposals submitted to NASA for funding.

Reviewed 14 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Radio interview with Ray Herne, January 24, 1977.

Radio interview with KRST-FM, March 9, 1977.

Several interviews with the Lobo, Albuquerque Journal and Albuquerque Tribune regarding U.S. Viking Mars Missions.

TV interview, channel 13, on U.S. Viking Mars Missions, October 11, 1977.

TV interview, channel 7, on U.S. Viking Mars Missions, October 12, 1977.

Leader of the Kenna Consortium.

Leader of the Angra dos Reis Consortium.

Hosted the Meeting of the Southwest Probe Users Group, April 21, 1977.

Martin Prinz, Senior Research Associate

1969 - 1970

Reviewed several proposals and articles submitted to the National Science Foundation, American Journal of Science, Geochimica et Cosmochimica Acta, and Journal of Geology.

TV appearance with K. Keil on "Project 7 Documentary" (Ken Dunnagan, host), dealing with results of Moon rock studies (August, 1969).

Became a member of the Meteoritical Society and the American Geophysical Union.

1970 - 1971

Presented talk at Department of Geology, Institute of Meteoritics Petrology Discussion Group entitled "The Idaho Rift System" (October 10, 1970).

Led field trip to ultramafic inclusion locality at San Carlos, Arizona, for 50 conferees of Penrose Conference. (December 1, 1970).

Presented talk to New Mexico Junior Science and Humanities Symposium entitled, "Study of lunar samples" (April 22, 1971).

Reviewed five (5) scientific papers submitted for publication in American Journal of Science, Geological Society of America Bulletin, and Geochimica et Cosmochimica Acta.

1971 - 1972

Organized the Petrology Discussion Group at the UNM Department of Geology and conducted program of research talks one or two times per month during academic year.

Reviewed several NSF proposals and numerous papers for Science, Journal of Geophysical Research; Geological Society of America; and American Journal of Science.

1972 - 1973

Reviewed 15 papers submitted for publication in Bulletin of the Geological Society of America; Earth and Planetary Sciences Letters; Science; Geochimica et Cosmochimica Acta; and Lunar Science Conference Proceedings.

1973 - 1974

Several talks to school classes, church, and civic groups on lunar geology, diamonds, and Africa.

G. J. Taylor, Senior Research Associate

1976 - 1977

Associate Editor, Proceedings of the Eighth Lunar Science Conference.

Reviewed five (5) scientific papers submitted for publication in Geochimica et Cosmochimica Acta, and one for Meteoritics.

Reviewed three grant proposals submitted for funding to NASA.

Gero Kurat, Post-doctoral Fellow

1970 - 1971

Presented talk at the Lunar Science Institute, Houston, TX, on "The Cooling history of lunar glass spherules" (March 18, 1971).

Presented talk before the Department of Geology - Institute of Meteoritics Petrology Discussion Group entitled "On the origin of chondrules" (March 3, 1971).

Presented talk at NASA Ames Research Center, Moffett Field, CA, entitled "The Lance Carbonaceous chondrite" (May 27, 1971).

Reviewed paper for the Proceedings of the Apollo 12 Lunar Science Conference.

TV - interview with Channel 5, Albuquerque, and radio interview with a Columbian radio station.

David Lange, Staff Scientist

1974 - 1975

Prepared meteorite exhibit for Albuquerque Gem and Mineral Show.

G. Conrad, Electron Microprobe Specialist

1970 - 1971

Presented talk at Manzano High School Science Club entitled "Returned lunar samples" (February 11, 1971).

F. Busche, Graduate Research Assistant

1969 - 1970

Judge of Gem and Mineral display at New Mexico State Fair, September, 1969.

P. Hlava, Graduate Research Assistant

1972 - 1973

Judge, 1973 Rock and Mineral Show, Albuquerque, NM, April, 1973.

Judge, Mineral Show, New Mexico State Fair, September, 1972.

H. Planner, Graduate Research Assistant

1972 - 1973

Judge, Junior High School Science Fair, Earth Sciences Discussion, UNM Arena,
March, 1973.

Public service by members of the Institute of Meteoritics since 1968.Klaus Keil, Director

1968 - 1969

Two talks on "Meteorites" to Albuquerque Highschool students, October 15, 1969.

Talk on "Meteorites" for Questers, First United Presbyterian Church, Albuquerque, New Mexico, March 9, 1969.

Examined some twenty rocks of suspected meteoritic nature donated by citizens.

1969 - 1970

Many private showings of moon rocks to interested citizens, school classes, etc.

Many private showings of meteorite collection to interested citizens, school classes, etc.

Organized three (3) public exhibitions of moon rocks, slides, films, etc., concerning the Apollo program. These exhibitions were seen by approximately 18,000 New Mexicans.

Examined some fifteen (15) rocks of suspected meteoritic nature donated by citizens.

1970 - 1971

Twenty-four (24) private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Approximately nine (9) private showings of the meteorite collection to interested citizens, school classes, and civic groups.

Organized showing of moon rocks and material on UNM and its science departments at the New Mexico State Fair. This exhibition was visited by nearly 70,000 people.

Examined seventeen (17) rocks of suspected meteoritic nature donated by citizens, one was recognized as a new meteorite. This specimen is presently being studied and will be known as the Orogrande, New Mexico, chondrite.

1971 - 1972

Thirty-one (31) private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Twelve (12) private showings of the meteorite collection to interested citizens, school classes, and civic groups.

Examined twenty-one (21) rocks of suspected meteoritic nature donated by interested citizens.

1972 - 1973

Eighteen (18) private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Fourteen (14) private showings of the meteorite collection to interested citizens, school classes, and civic groups.

Public lecture, organized by UNM Speakers Committee, entitled "The Moon: Origin and History." UNM, Kiva, October 18, 1972.

1973 - 1974

Private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Private showings of the meteorite collection to interested citizens, school classes, and civic groups.

Talk on "To the moon and on to Mars," Rotary Club, Albuquerque, February 7, 1974.

1974 - 1975

Albuquerque Rock Hounds. Presented talk on "Geology of the Moon: What next?" February 4, 1975.

Albuquerque Senior Citizens. Tour of UNM Meteorite Museum, March 26, 1975.

U.S. Viking Mission to Mars, Public Symposium, including several TV interviews and shows; talks in the UNM Geology Department and Institute of Meteoritics, at S. Johns College (Santa Fe); as well as presentation of Mars Globe to Governor Apodaca; April 3-4, 1975.

Albuquerque Gem and Mineral Club, presented talk on "Exploration of Mars: The U.S. Viking Program," April 21, 1975.

Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite collection to interested citizens, school classes and civic groups.

1975 - 1976

Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite collection to interested citizens, school classes and civic groups.

Organized meteorite exhibit at the New Mexico State Fair, Albuquerque, September, 1975.

Talk on "Non-destructive analysis of the soil of Mars: The X-ray Fluorescence spectrometer on board of Viking," Association for Non-destructive Testing, Albuquerque, NM, February 17, 1976.

Talk on "Exploration of Mars: The U.S. Viking Program," 21 Club, UNM March 8, 1976.

Talk on "To the Moon and Beyond: Geological exploration of the planets," Rock Founder, Santa Fe, NM March 9, 1976.

Talk on "Geological exploration of Mars: The U.S. Viking Program," Physics Department, UNM, April 2, 1976.

1976 - 1977

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.

Talk on "Geology of Mars: The U.S. Viking Missions," to the Albuquerque Geological Society, September 21, 1976.

Talk on "The U.S. Viking Missions: Scientific results," to the New Mexico Chapter of the American Society of Heating, Refrigerating, and Airconditioning Engineers, Albuquerque, September 21, 1976.

Presented talk in Popejoy Hall, UNM, attended by 1,700 citizens on "The Story of Viking: The U.S. landings on Mars," October 13, 1976.

Presented talk on "The Geology of Mars: The U.S. Viking Mission," to the AIME, Grants, NM, January 15, 1977.

Presented talk on "The U.S. Viking Missions to Mars," to the American Society of Mechanical Engineers, New Mexico Section, Santa Fe, NM, February 4, 1977.

Presented talk on "The Geology of Mars: Results of the U.S. Viking Mars landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.

Presented talk on "Exploration of Mars: The U.S. Viking Mission" to Albuquerque Rock Hounds, June 12, 1977.

Investigated without charge many rocks suspected to be meteorites and brought in by citizens.

Martin Prinz, Senior Research Associate

1969 - 1970

Many private showings of Moon rocks to interested citizens and school classes.

1970 - 1971

Many private showings of moon rocks to interested citizens, school classes, etc.

1971 - 1972

Many private showings of Moon rocks to interested citizens.

1972 - 1973

Several talks to school children on moon rocks.

Several private showings of moon rocks to interested citizens and visiting scientists.

G. J. Taylor, Senior Research Associate

1976 - 1977

Showed lunar samples to a Cub Scout group and to numerous other visitors.

Gave "Planetary Science" lecture to monthly meeting of Kiwanis Club, Albuquerque.

R. D. Warner, Post-doctoral Fellow

1976 - 1977

Led guided tour of Meteorite Museum for members of the Association of Science Editors, October 17, 1976.

Gero Kurat, Post-doctoral Fellow

1970 - 1971

Five (5) private showings of moon rocks to interested citizens, school classes, etc.

David Lange, Staff Scientist

1974 - 1975

Short lecture tours, often at night or on weekends, to 12 groups totalling about 200 persons, including 3 High School classes, 6 grade school classes, 2 Community College classes, and 1 Rock and Mineral Club.

1975 - 1976

5 guided tours of Meteorite Museum to special Community College classes, 2 University classes, Gem and Mineral Club, and Senior Citizen group.

Gave 2 talks on meteorites to local organizations.

Elected Vice-President, Central New Mexico Audubon Society.

1976 - 1977

Vice-President, Central New Mexico Audubon Society.

President, Central New Mexico Audubon Society.

Member of the Candelaria Farms Nature Preserve task force which is setting up and designing a nature center.

Provided guided tours to 6 grade school classes to the Meteorite Museum.

Inspected without charge many rocks suspected to be meteorites and brought in by citizens.

Designed and carried out meteorite display for New Mexico Mineral Exhibition.

George Conrad, Electron Microprobe Specialist

1970 - 1971

Approximately five (5) private showings of moon rocks to interested public.

1971 - 1972

Many private showings of Moon rocks to interested citizens.

1976 - 1977

Provided 11 guided tours of the Microprobe laboratory.

Paul Hlava, Graduate Research Assistant

1973 - 1974

Election Judge, Primary Election, June 4, 1974, Albuquerque, NM.

G. R. Huss, Graduate Research Assistant

1976 - 1977

Many talks on recognizing meteorites to laymen.

Gave talk on "The U.S. Viking Missions" at Los Angeles, CA Auto Show, February, 1977.

Gave talk on "The U.S. Viking Missions" to Lakewood, CA, Jaycees, May, 1977.

W. L. Mansker, Graduate Research Assistant

1976 - 1977

Gave tour of Institute of Meteoritics, Meteorite Museum, and Dept. of Geology to Albuquerque Senior Citizens Club.

Committee Chairman, Rodney C. Rhodes Memorial Scholarship Committee (Sigma Gamma Epsilon).

H. N. Planner, Graduate Research Assistant

1976 - 1977

Six (6) donations of blood to United Blood Services, Albuquerque.

Appendix 12

Honors bestowed on members of the Institute of Meteoritics since 1968.Klaus Keil, Director

1. Elected Fellow, Mineralogical Society of America (1968).
2. Elected Fellow, American Association for the Advancement of Science (1969).
3. Recipient of the Apollo Achievement Award, National Aeronautics and Space Administration, Washington, D.C. (1970).
4. First recipient of the George P. Merrill Award, National Academy of Sciences, Washington, D.C. (1970).
5. Recipient of the Blue Ribbon Award of the Western Fairs Association and the New Mexico State Fair (Moon Rock Exhibit) (1970). This is only the third time that this award has been presented.
6. Elected Fellow, American Institute of Chemists (1971).
7. Powell Memorial Lecturer, Arizona Academy of Sciences and SW-Branch, Amer. Assoc. for the Advancement of Science (1971).
8. Named "Outstanding Educator of America" (1973).
9. Elected Honorary Member, Phi Eta Sigma (Freshman Honorary) (1973).
10. Awarded the Plaque of the American Federation of Mineralogical Societies (1974).
11. Named Correspondent Member of the Natural History Museum, Vienna, Austria, by the Minister of Education and Science of the Republic of Austria and the Director of the Museum. (1975).
12. Awarded the Exceptional Scientific Achievement Medal, National Aeronautics and Space Administration, Washington, D.C. (1976).
13. Theodore von Karman Award of the Air Force Association, collectively as a member of the Viking Flight Team.
14. Named Honorary Research Associate, Dept. of Mineral Sciences, American Museum of Natural History, New York, N.Y.

Martin Prinz, Senior Research Associate

1. Elected Fellow, Mineralogical Society of America (1974).

J.L. Berkley, Graduate Research Assistant

1. Penrose Bequest Award, Geological Society of America, for assistance with dissertation (1974).
2. Student Speaker Award, Meteoritical Society Meeting, Tours, France (1975).
3. Albuquerque Gem and Mineral Club award (1975).
4. Elected to membership in Phi Kappa Phi Honor Society

Fred Busche, Graduate Research Assistant

1. Elected Associate Member, Sigma Xi (1970).

J.L. Gooding, Graduate Research Assistant

1. Sun Oil Company Scholarship (1977).
2. Albuquerque Gem and Mineral Club Award (1978)

W.L. Mansker, Graduate Research Assistant

1. Dept. of Geology, UNM Scholarship, for presentation of paper at the American Geophysical Union (Midwestern) Meeting in Ann Arbor, Michigan (1976).
2. UNM Dept. of Geology Scholarship for travel to magma genesis conference.

Harry Planner, Graduate Research Assistant

1. V.C. Kelly Award, UNM Dept. of Geology, for excellence in field geology (1973).

Richard G. Warren, Graduate Research Assistant

1. New Mexico Geological Society Award, for field work towards M.S. degree (1975).

Dorothy Boyer, Undergraduate Research Assistant

1. Awarded UNM Academic Scholarship (1969-1971).

Georgianna E. Honea, Undergraduate Research Assistant

1. El Paso Natural Gas Geology Scholarship (1975).

Appendix 13

Activities of members of the Institute of Meteoritics as officers in
professional societies and associations since 1968:

Klaus Keil, Director

1. President of the Meteoritical Society (1968-1970)
2. Secretary, Commission on Meteorites, The International Union of Geological Sciences (1968-1977).
3. U.S. representative, Commission on Meteorites and Extraterrestrial Mineralogy, International Mineralogical Association (1968-1970).
4. Member, Planetology Advisory Subcommittee of the Space Science and Applications Steering Committee, National Aeronautics and Space Administration, Washington, D.C. (1968-1969).
5. Associate Editor, Proceedings of the Apollo 11 Lunar Science Conference, Houston, Texas (1970).
6. Co-Chairman, Organizing Committee, Symposium on Meteorites and the Moon, London, England (1970). Jointly sponsored by the Mineralogical Society of Great Britain and Ireland, and the Meteoritical Society.
7. Member, Committee on Electron Microprobe Standards, Geochemical Society (1970).
8. Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association (1970-present).
9. General Chairman, National Meeting of the Electron Probe Analysis Society of America (1970).
10. Member, 21 Club, University of New Mexico (1970).
11. Past-President, Meteoritical Society (1970-1972).
12. Member, International Platform Association (1970).

13. Associate Editor, Proceedings of the Apollo 12 Lunar Science Conference, published by the Geochemical Society and the Meteoritical Society (1970).
14. President-elect, Electron Probe Analysis Society of America (1971).
15. Member, American Geophysical Union (1971).
16. Member, International Association of Geochemistry and Cosmochemistry (1971).
17. Member, Lunar Science Review Board, Lunar Science Institute (1971-1973).
18. President, Electron Probe Analysis Society of America (1972)
19. Member, National Committee on Geochemistry, National Academy of Sciences (1972-1974).
20. Member, MSA Award Committee, Mineralogical Society of America (1972-1973).
21. Chairman, Mineralogy and Petrology Division, Lunar Science Review Board, Lunar Science Institute (1972-1974).
22. Vice-Chairman, U.S. National Committee on Geochemistry, National Academy of Sciences (1972-1974).
23. Chairman, Nominating Committee, Electron Probe Analysis Society of America (1972-1973).
24. Secretary, International Association of Geochemistry and Cosmochemistry (1973-1977).
25. Member, Leonard Medal Committee, Meteoritical Society (1973-1977).
26. Chairman, U.S. National Committee for Geochemistry, National Academy of Sciences (1973-1975).
27. Ex-officio member, Subcommittee on the Geochemical Environment in Relation to Health and Disease, U.S. National Committee for Geochemistry, National Academy of Sciences (1974-1975).
28. Member, Ad hoc Lunar Data Synthesis Review Panel, National Aeronautics and Space Administration (NASA), Washington, D.C. (1973-1974).
29. Chairman, Nominating Committee, Meteoritical Society (1974).

30. Member, Editorial Board, Journal "Chemical Geology" (1973-present).
31. Chairman, Program Committee, Planetology Section, 55th Annual Meeting, American Geophysical Union, Washington, D.C. (1974).
32. Member, Geophysics Research Board, National Academy of Sciences, Washington, D.C. (1974-1976).
33. Member, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas (1974-1978).
34. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado (1974-present).
35. Member, Committee on Public Education and Information, Mineralogical Society of America (1974-1976).
36. Chairman, U.S. Geodynamics Committee, Subcommittee on Chemical Differentiation of Magmas, Geophysics Research Board, National Academy of Sciences, Washington, D.C. (1973-1975).
37. Member, Editorial Board, Lunar Science Studies, NASA, Houston, Texas (1974-1978).
38. Invited Speaker, International Mineralogical Association, Regensburg, West-Germany (1975).
39. Invited Speaker, Geological Society of Brazil, Porto Alegre, Brazil (1975).
40. Chairman, Facilities Subcommittee, Lunar Sample Analysis Planning Team, NASA Johnson Space Center, Houston, Texas (1974-1976).
41. Member, Surface Sampler Team, Viking Mars Mission (1975-1978).
42. Co-chairman, Organizing Committee, Symposium on "Interrelationships among meteoritic and lunar breccias", American Geophysical Union Meeting (1975).
43. Member, Viking Mars Flight Team, Jet Propulsion Laboratory, Pasadena, California (1971-present).

44. Chairman, Leonard Medal Committee, Meteoritical Society (1977).
45. Member, Lunar and Planetary Science Council, Universities Space Research Association, Houston, Texas (1977-present).
46. Member, Antarctic Meteorite Working group, National Science Foundation, Washington, D.C. (1977-present).

Martin Prinz, Senior Research Associate

1. Assistant Secretary, International Association for Geochemistry and Cosmochemistry (1973-1976).
2. Member, Lunar Science Review Panel, NASA Johnson Space Center, Houston, Texas.

H. Gassaway Brown, Graduate Research Assistant

1. President, student chapter, Amer. Institute of Mining Engineers (1974-1975).

Roger Fisher, Graduate Research Assistant

1. Secretary-Treasurer, Beta-Mu chapter, Sigma Gamma Epsilon.

J.L. Gooding, Graduate Research Assistant

1. Associate Member, Inorganic Chemical Analysis Team, NASA Project Viking Mission to Mars (1976-1977).

William L. Mansker, Graduate Research Assistant

1. President, Sigma Gamma Epsilon, Earth Science Honorary, Beta Mu chapter, UNM (1976).

Steven Sibray, Graduate Research Assistant

1. Member, Geological Society of America.
2. Student member, Geological Society of New Mexico.

Terry Steinborn, Graduate Research Assistant

1. Member, American Geophysical Union
2. Member, Geological Society of America.

Richard Warren, Graduate Research Assistant

1. Student member, Mineralogical Society of America (1975),
2. Member, Sigma Gamma Epsilon, Earth Science Honorary, Beta Mu Chapter, UNM (1976).

Since 1968, members of the Institute of Meteoritics served on 58 occasions as officers in professional societies and associations. Of these, 10 offices were held by students.

Appendix 14

Present positions of former academic employees, post-doctoral fellows, and
graduate students of the Institute of Meteoritics.

<u>Name</u>	<u>Former Position in Inst. of Meteoritics</u>	<u>Present Position</u>	<u>Address</u>
1. Dr. Martin Prinz	Sr. Research Associate	Chairman	Dept. of Mineralogy Am. Museum of Natural History, New York,
2. Dr. Eric Dowty	Post-doctoral Fellow	Assistant Professor	Dept. of Geology, Princeton University Princeton, NJ
3. Dr. R. V. Fodor	Post-doctoral Fellow	Assistant Professor	Dept. of Geology, North Carolina State University, Raleigh
4. Dr. Gero Kurat	Post-doctoral Fellow	Chairman	Dept. of Mineralogy Petrology, and Meteoritics, National Museum of Natural History, Vienna, Austria
5. Dr. W. Paar	Post-doctoral Fellow	Assistant Professor	Dept. of Mineralogy University of Salzburg Salzburg, Austria
6. Dr. C. B. Gomes	Post-doctoral Fellow	Associate Professor	Institute of Geosciences, University of São Paulo, São Paulo, São Paulo, Brazil
7. Dr. E. Kirchner	Post-doctoral Fellow	Assistant Professor	Dept. of Mineralogy University of Salzburg Salzburg, Austria
8. Dr. F. Busche	Graduate Research Asst.	Geologist	Wyoming Mineral Co. Denver, CO
9. Dr. T. Steinborn	Graduate Research Asst.	Research Scientist	Univ. of California Berkeley, Lawrence- Livermore Radiation Lab, Livermore, CA
10. P. Hlava (M.S.)	Graduate Research Asst.	Scientist (Staff)	Sandia Laboratories Albuquerque, NM

<u>Name</u>	<u>Former Position in Inst. of Meteoritics</u>	<u>Present Position</u>	<u>Address</u>
G. Brown (M.S.)	Graduate Research Asst.	Geologist	Exxon Mineral Division, Denver, CO
S. Sibray (M.S.)	Graduate Research Asst.	Geologist	Pathfinder Mines, Albuquerque, NM
G. Warren (M.S.)	Graduate Research Asst.	Staff Scientist	Los Alamos Scientific Laboratory, Los Alamos, NM

BIOGRAPHY

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Name: Klaus Keil
 Born: November 15, 1934, Hamburg, Germany
 Citizenship: U.S.A.
 Married: Rosemarie Keil (1961)
 Children: Two - Kathrin R. Keil (1962) and Mark K. Keil (1967)
 Education: 1941-1949 - Elementary School, Jena, Germany
 1949-1953 - High School, Jena, Germany
 Degree: Abitur
 1953-1958 - Friedrich-Schiller-University, Jena, Germany
 Major: Mineralogy and Geochemistry
 Minor: Chemistry
 Degree: M.S.
 Research: Mineralogy and geochemistry of potash
 deposits and salt minerals, particularly
 boron minerals
 1961 Johannes-Gutenberg-University, Mainz, Germany
 Major: Mineralogy and Geochemistry
 Minor: Chemistry and Geophysics
 Degree: Ph.D.
 Research: Mineralogy and geochemistry of meteorites
 Employment: 1958-1960 - Mineralogical Institute, Friedrich-Schiller-University,
 Jena, Germany
 Position: Research Associate and Instructor
 Research: Salt minerals; mineralogy and geochemistry
 of meteorites
 1961 Max-Planck-Institute for Chemistry, Mainz, Germany
 Position: Research Associate
 Research: Mineralogy and geochemistry of meteoritic
 minerals; noble gases in extraterrestrial
 materials; absolute ages of meteorites
 1961-1963 Department of Chemistry, University of California
 San Diego, La Jolla, California
 Position: Research Associate
 Research: Application of the electron microprobe to
 studies of meteorites and other extra-
 terrestrial materials

- 1963-1964 National Aeronautics and Space Administration,
Space Sciences Division, Ames Research Center,
Moffett Field, California
Position: National Academy of Sciences -
National Research Council Resident
Research Associate
Research: Mineralogy and geochemistry of
meteorites applying electron microprobe
techniques
- 1964-1968 National Aeronautics and Space Administration,
Space Sciences Division, Ames Research Center,
Moffett Field, California
Position: Staff Research Scientist, supervising
the cosmochemistry and mineralogy
laboratory, a group of four Ph.D.'s
and five technicians
Research: Nondestructive microchemical study
of extraterrestrial materials using
electron microprobe and laser microprobe
techniques
Development of standards and techniques
to analyze returned lunar rock and dust
samples
- Since 1968 Department of Geology and Institute of Meteoritics,
The University of New Mexico, Albuquerque, N. M. 87131
Position: Professor of Geology and Director of
the Institute of Meteoritics
Research: Mineralogy, petrology, and chemistry of
meteorites and ultramafic terrestrial
rocks. Application of electron and
laser microprobe techniques to problems
in earth sciences. Electron and laser
beam microprobe analysis of the returned
lunar samples. High-temperature chemistry;
nucleation from supercooled melts.
Mineralogy and petrology of Hawaiian and
Oceanic volcanic rocks. Origin and history
of parent meteorite bodies, planets, and
the solar system. Geology of Mars via the
U.S. Viking Program.
- Teaching
Experience: 1958-1960 Mineralogical Institute, Friedrich-Schiller-University,
Jena, Germany
Subject: Mineralogy; petrology; potash deposits;
ore deposits; geochemistry; meteoritics
- 1966-1968 Department of Geology and Mineralogy, San Jose State
College, San Jose, California
Subject: Graduate course on:
(1) Electron microprobe analysis and
application (with special reference to
the earth sciences).

- (2) Modern analytical methods in geology (neutron activation analysis, mass spectrometry including age dating, low-level counting, atomic absorption, infrared analysis, laser beam microprobe analysis, electron diffraction and neutron diffraction, fission track methods, Kossel and Kikuchi microdiffractions, x-ray diffraction and emission, and others).

Since 1968 Department of Geology and Institute of Meteoritics,
The University of New Mexico, Albuquerque, N.M.

- Subject: (1) Meteoritics (the nature, origin and history of the solar system on the basis of cosmochemical, lunar, and meteoritical evidence).
(2) Microprobe analysis (theory, instrumentation, and application of electron, laser and ion beam microprobe analyzers).
(3) Modern analytical techniques in geology
(4) Microscopy of opaque ores

Member: Meteoritical Society (Fellow); American Association for the Advancement of Science (Fellow); Mineralogical Society of America (Fellow); Geochemical Society; Deutsche Mineralogische Gesellschaft; Vereinigung der Freunde der Mineralogie und Geologie; The Electron Probe Analysis Society of America; American Geophysical Union; American Institute of Chemists (Fellow); Clube de Mineralogia, Recife, Pernambuco, Brazil; Geological Society of Brazil.

Honors and Society Offices:

1963-1964: National Academy of Sciences - National Research Council
Resident Research Associateship with tenure at the
National Aeronautics and Space Administration, Ames
Research Center, Moffett Field, California

Since 1966: Fellow of the Meteoritical Society.

1966-1968: Councilor of the Meteoritical Society

1966: Member of the National Eight Men Panel to establish and
organize an Electron Microprobe Society of America

Since 1967: Principal Investigator, electron microprobe and laser
microprobe study of returned lunar rock and dust samples

1967-1970: U. S. Representative, Commission on Cosmic Mineralogy,
International Mineralogical Association

- 1967: Chairman, Organizing Committee, 30th Annual Meeting, Meteoritical Society
- 1967: Chairman, Publications Committee, Meteoritical Society
- Since 1967: Full Member Since 1968:
The Society of Sigma XI UNM Chapter
Stanford Chapter
Stanford University
- 1968-1970: President, The Meteoritical Society
- 1968: Member, Nominating Committee, The Electron Probe Analysis Society of America
- 1968: Member, Planetology Advisory Subcommittee of the Space Sciences and Applications Steering Committee, National Aeronautics and Space Administration, Washington, D. C.
- Since 1968: Secretary, Commission on Meteorites, The International Union of Geological Sciences
- Since 1968: Fellow, The Mineralogical Society of America
- Since 1969: Fellow, The American Association for the Advancement of Science
- 1970: Associate Editor, Proc. Apollo 11 Lunar Sci. Conf., Geochimica et Cosmochimica Acta
- 1970: Apollo Achievement Award of the National Aeronautics and Space Administration
- 1970: Recipient of the first George P. Merrill Award, National Academy of Sciences, Washington, D. C.
- 1970: Member, Committee on Electron Microprobe Standards, The Geochemical Society
- 1968-1976: Secretary, Commission on Cosmic Mineralogy, the International Mineralogical Association
- 1970: Chairman, Organizing Committee, Meeting of the Group for the Analysis of Carbonaceous Compounds in Rocks, Meteorites, and the Moon, Albuquerque, New Mexico, September 11-12, 1970.
- 1970: General Chairman, 8th National Microprobe Meeting to be held in New Orleans, Louisiana
- 1970-1972: Past-President, The Meteoritical Society
- 1971: John Wesley Powell Memorial Lecturer and Arizona Academy of Science Invited Lexturer, AAAS and Arizona Academy of Science Meeting, Tempe, Arizona

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- 1971: Associate Editor, Proceedings of the Second Lunar Science Conference, Geochimica et Cosmochimica Acta
 - 1971: President-Elect, The Electron Probe Analysis Society of America
 - 1971: Fellow, American Institute of Chemists
 - 1971-1973: Member, Lunar Science Review Board, Lunar Science Institute, NASA, Houston, Texas
 - 1971-1974: Member, U. S. National Committee for Geochemistry, National Academy of Sciences.
 - 1972: Invited speaker, International Geological Congress, International Union of Geological Sciences, Montreal, Canada
 - 1972-1974: Member, Mineralogical Society of America Award Committee
 - 1972-1973: Chairman, Mineralogy and Petrology Section, Lunar Science Review Board, Lunar Science Institute, NASA, Houston, Texas
 - 1972: Chairman, Nominating Committee, The Electron Probe Analysis Society of America
 - 1972-1974: Vice-Chairman, U. S. National Committee for Geochemistry, National Academy of Sciences
 - 1972: Chairman, Organizing Committee, Meeting of the U.S. National Committee for Geochemistry, National Academy of Sciences, Albuquerque, N. M.
 - 1972-1977: Principal Investigator, X-ray fluorescence analysis of Martian soil. U.S. Viking Mission (flights 1975-1976).
 - 1972-1977: Secretary, International Association for Geochemistry and Cosmochemistry
 - 1972: Mineralogy-Petrology Consortium Leader, U.S. studies of Russian Luna 20 returned lunar samples.
 - 1973: Outstanding Educator of America.
 - 1973-1978: Member, Leonard Medal Committee, Meteoritical Society.
 - Since 1973: Associate Editor of "Chemical Geology."
 - 1973: Acting Chairman, U.S. National Committee for Geochemistry, National Academy of Sciences.
 - 1973-1974: Ex-officio member, Subcommittee on the Geochemical Environment in Relation to Health and Disease, U. S. National Committee for Geochemistry.

- 1973: Member, Ad Hoc Lunar Data Synthesis Review Panel, National Aeronautics and Space Administration (NASA), Washington, D.C.
- 1973: Chairman, Nominating Committee, Meteoritical Society.
- 1973: Honorary Member, Phi Eta Sigma.
- 1974-1975: Chairman, U.S. National Committee for Geochemistry, National Academy of Sciences.
- 1974: Chairman, Program Committee, 55th Annual Meeting, American Geophysical Union, Washington, D.C.
- 1974-1975: Member, Geophysics Research Board, National Academy of Sciences.
- 1974-1977: Member, Surface Sampler Team, U. S. Viking Mars Mission
- 1974-1975: Member, Lunar Sample Analysis Planning Team (LSAPT), NASA, Houston, Texas.
- Since 1974: Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado
- 1974-1976: Member, Committee on Public Education and Information, Mineralogical Society of America.
- 1974: Recipient of the Plaque of the American Federation of Mineralogical Societies.
- 1974: Chairman, U. S. Geodynamics Committee, Subcommittee on "Chemical Differentiation of Magma", Geophysics Research Board, National Academy of Sciences.
- Since 1974: Member, Editorial Board, Lunar Science Studies, NASA Houston, Texas.
- 1974: Distinguished Visiting Professor, Department of Geosciences, University of Sao Paulo, Sao Paulo, Brazil.
- 1974: Visiting Professor, Department of Chemistry, University of California, La Jolla, California.
- 1974: Invited Speaker, International Mineralogical Association, Regensburg, West-Germany.

- 1975-1976 Chairman, Facilities Subcommittee, Lunar Sample Analysis Planning Team, NASA Johnson Space Center, Houston, Texas.
- 1975 Co-chairman, Organizing Committee, Symposium on "Interrelationships among meteoritic and lunar breccias, AGU.
- 1976 Vice-Chairman, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, Texas.
- 1976-1977 Visiting Associate in Geochemistry, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California.
- 1976 Named "Correspondent Member of the Natural History Museum, Vienna" by the Minister of Education and Science of the Republic of Austria and the Director of the Museum.
- 1976-1978 Member, Viking Mars Flight Team, Jet Propulsion Laboratory, Pasadena California.
- 1977 Recipient of the NASA Exceptional Scientific Achievement Medal.
- 1977 Member, Lunar and Planetary Science Council, Universities Space Research Association.
- 1977-1978 Chairman, Leonard Medal Committee, Meteoritical Society
- Since 1977 Honorary Research Associate, Dept. of Mineral Sciences, American Museum of Natural History, New York, NY.
- Oct., 1977 Invited keynote speaker, Science Spectrum 1977, Vancouver, B.C., Canada.
- Jan., 1978 Co-Recipient of the Newcomb Cleveland Award of the American Association for the Advancement of Science, for the best papers in the Viking issues of Science (Aug. 27, 1976; Oct. 1, 1976. Dec. 17, 1976).

PUBLICATIONS

(Not listed are some 150 abstracts, published in various scientific journals, proceedings of meetings, etc.)

1. On the celestite from Jena. *Der Aufschluss* 6, 27-28, 1955.
2. Mineralogical investigations of potash and salt deposits near Solvayhall. University Publications Vol. I, 1-178, Vol. 2, 1-78, 1958.
3. On potash and other salt deposits. *Urania* 8, 292-296, 1959.
4. Progress in meteoritics. *Fortschritte der Mineralogie* 38, 202-283, 1960.
5. On a garnet-bearing rhyolite from Thuringia. *Chemie der erde* 21, 131-132, 1961 (with B. Jacobi).
6. Investigations on stone meteorites with extremely high rare gas content I. The chondrite Pantar. *Zeitschrift fur Naturforschung* 16a, 1124-1130, 1961 (with H. Konig, H. Hintenberger, F. Wlotzka, and F. Begemann).
7. Investigations on stone meteorites with extremely high rare gas content II. The chondrite Tabor. *Zeitschrift fur Naturforschung* 17a, 357-358, 1962 (with H. Konig and H. Hintenberger).
8. On the phase composition of meteorites. *J. Geophys. Res.* 67, 4055-4061 1962.
9. Quantitative planimetric integration analysis of chondritic meteorites. *Chemie der Erde* 22, 281-348, 1962.
10. The light-dark structure in the Pantar and Kapoeta stone meteorites. *Geochim. Cosmochim. Acta* 27, 717-739, 1963 (with K. Fredriksson).
11. Electron microprobe analysis of some rare minerals in the Norton County achondrite. *Geochim. Cosmochim. Acta* 27, 939-947, 1963 (with K. Fredriksson).
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Colgate University, A.B. (1966)
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1966 (summer) Research Assistant, State University of New York, Stony Brook
1967 (summer) Geophysicist, Gulf Oil Company
1968 (summer) Research Assistant, State University of New York, Stony Brook
1970-1973 Postdoctoral Fellow, Smithsonian Astrophysical Observatory and
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1973-1976 Assistant Professor, Department of Earth and Planetary Sciences,
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1976-present Senior Research Scientist, Institute of Meteoritics and Department
of Geology, University of New Mexico, Albuquerque, N.M.

Honors and Awards:

Harvey Picker Physics Prize, Colgate University, May, 1966
NDEA Fellowship, Rice University, Sept., 1966-July, 1969
Co-winner of 1967-68 Ninninger Meteorite Contest (\$450 prize)
Sigma Xi Award for graduate research, Rice University, May, 1970
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Professional Societies:

American Association of the Advancement of Science
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Scientific Work:

G. Jeffrey Taylor has studied the thermal histories of chondritic meteorites, using petrographic, metallographic, X-ray diffraction, electron microprobe, and mass spectrometric techniques. In the course of graduate training under the direction of Dr. Dieter Heymann, he made a comprehensive study of the relationship among shock effects, reheating, and the gas-retention ages of chondrites, and he was the first to thoroughly investigate the occurrence of two types of taenite (an iron-nickel phase) in ordinary chondrites. From 1970-1973 he worked with Dr. John A. Wood at the Smithsonian Astrophysical Observatory on the petrology of rock fragments in lunar soil samples, with emphasis on the composition and origin of the lunar highlands. At Washington University, he studied the petrology of lunar breccias that contain fission Xe derived from extinct ^{244}Pu and was active in a comprehensive petrologic, fossil-track, and rare-gas study of Ca-, Al- rich inclusions, with emphasis on the geochemical behavior of Pu, U, and Th. Since joining the staff at the Institute of Meteoritics, he has continued to study the petrologic and geochemical nature of meteorites and lunar samples.

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RÉSUMÉ

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EDUCATION:

Massachusetts Institute of Technology - B.S., Earth Sciences - 6/10/66
 Stanford University - Ph.D., Geology - 4/1/71
 Dissertation: "Experimental investigations in the system
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AWARDS, FELLOWSHIPS:

National Science Foundation Graduate Fellowship (1966-67; 1967-68;
 1968-69; 1969-70)
 National Academy of Sciences/National Research Council Resident
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JOB EXPERIENCE:

Resident Research Associate, Planetology Branch, NASA - Goddard
 Space Flight Center (1971-73): Conducted research in
 the field of high-pressure, hydrothermal phase equilibria,
 with emphasis on synthetic olivine and pyroxene systems.
 Research Associate, Department of Geology, University of Maryland
 (1973-74): Studied mineralogy and petrology of Apollo
 17 lunar samples.
 Research Associate, Institute of Meteoritics & Department of
 Geology, University of New Mexico (1974-):
 Continuing mineralogical-petrological investigation of
 lunar samples, with emphasis on lunar mare basalts.
 Research involves extensive use of electron micro-
 probe and the supervision of several graduate research
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PRINCIPAL RESEARCH INTERESTS:

Mineralogy and petrology of terrestrial mafic and ultramafic rocks
 Mineralogy and petrology of lunar mare basalts
 Phase equilibria pertaining to olivine and pyroxene systems;
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14. Consortium investigation of breccia 67435. Proc. Lunar Sci. Conf. 7th, 2379-2402, 1976 (with H.N. Planner, K. Keil, A.V. Murali, M.-S. Ma, R.A. Schmitt, W.D. Ehmann, W.D. James, Jr., R.N. Clayton and T.K. Mayeda).
15. Very low-Ti mare basalts. Geophys. Res. Lett. 4, 207-210, 1977 (with G.J. Taylor and K. Keil).
16. Coarse-grained basalt 71597: A product of partial olivine accumulation. Proc. Lunar Sci. Conf. 8th, 1429-1442, 1977 (with K. Keil and G.J. Taylor).
17. Petrology of crystalline matrix breccias from Apollo 17 rake samples. Proc. Lunar Sci. Conf. 8th, 1987-2006, 1977 (with G.J. Taylor and K. Keil).
18. Catalogue of Apollo 17 rake samples from stations 1A, 2, 7 and 8. Spec. Publ. No. 18, UNM Institute of Meteoritics, 88 pp., 1978 (with K. Keil, C.E. Nehru and G.J. Taylor).

NAME: Berkley, John Lee

DATE OF BIRTH: May 17, 1948 (Lawrence, Kansas)

NATIONALITY: U.S.A.

MARITAL STATUS: Married

CHILDREN: None

PRESENT ADDRESS: Institute of Meteoritics & Department of Geology,
University of New Mexico
Albuquerque, New Mexico 87131 U.S.A.

EDUCATION:

University of Minnesota, Duluth (R.W. Ojakangas)--B.A. (B.S. elsewhere), 1970; GPA 2.89

University of Missouri, Columbia (G.R. Himmelberg)--M.A. (M.S. elsewhere), 1972; GPA 3.41

University of New Mexico (K. Keil) -----Ph.D. 1977; GPA 3.89

Languages: Spanish (speak, fair; read, excellent)
French (read, fair)
German (read, poor)

HONORS AND AWARDS:

1. Member, National Honor Society (Richmond H.S., Richmond, Indiana - 1965-1966)
2. Gold scholarship award (Richmond H.S., Richmond, Indiana - 1966).
3. Minnesota Geological Survey; grant for thesis work (U. of Missouri - 1971)
4. Student fellowship to present paper, Tour, France (Meteoritical Society an. meeting - 1975).
5. Penrose Grant (Geological Society of America - 1975)
6. Albuquerque Gem and Mineral Club Fellowship (U. of NM - 1975).
7. Elected member of Phi Kappa Phi Honor Society - 1978.

TEACHING EXPERIENCE:

1. Physical Geology lab (U. of Minn., Duluth - 1969-1970).
2. Physical Geology lab & Optical Mineralogy (U. of Mo., Columbia - 1970-1972).
3. Physical Geology lab (U. of N.M. - 1973, fall).

WORK EXPERIENCE:

1. Minnesota Geological Survey (summer, 1969) Field assistant; Archean greenstone
2. United States Steel Corp. (summer, 1970) Exploration Geologist; Cu-Ni, north Minn.
5. M.B. Associates, San Ramon, Ca (1973) Engineering aide & computer programmer
4. Institute of Meteoritics, UAM (1973 to present) Research assistant; microprobe operator, geochem. & petrology of lunar, meteoritical, and terrestrial mafic-ultramafic rocks and pelitic metasediments.

OTHER PERTINENT EXPERIENCE:

1. Learned neutron activation analysis technique at Radiation Center, Oregon State University, Corvallis, Ore. (under Dr. Roman A. Schmitt, Dept. of Chemistry).

CURRENT INTERESTS/ON-GOING RESEARCH:

1. Dissertation: Petrochemical characterization of Indian Ocean basalts recovered by Deep Sea Drilling Project, Scripps Institute of Oceanography: trace element analysis including rare earths, microprobe analysis of minerals, Sr isotopes.
2. Petrofabric analyses of ultramafic achondritic meteorites
3. Chemical evolution of Carbon-bearing olivine-pigeonite achondrites (ureilites)
4. Geology and mineral chemistry systematics in pelitic rocks of a contact metamorphic aureole in the Sandia Mountains, Placitas, New Mexico.

PROFESSIONAL ORGANIZATIONS:

1. Geological Society of America (since 1973)
2. Mineralogical Society of America (since 1975).
3. American Geophysical Union (since 1974)
4. The Meteoritical Society (since 1975)

PUBLICATIONS:

- Berkley, J.L. (1972) The Deer Lake gabbro-peridotite complex, Itasca Co., Minnesota (Abst) 18th ann. meeting, Inst. of Lake Superior Geology, Houghton, Mich., paper #1.
- Berkley, J.L., Brown, H.G. IV, Keil, K., Carter, N.L., Mercier, J-C., and Huss, G. (1976) The Kenna Ureilite: Ultramafic rock with evidence for igneous, metamorphic, and shock origin: Geochim. Cosmochim. Acta Geochim., Cosmochim. Acta, V. 40, p. 1429-1437.

- Berkley, J.L., Brown, H.G. IV, Keil, K., and Huss, G. (1975) The Kenna Ureilite: Ultramafic rock with evidence for igneous, textonic, metamorphic, and shock origin: (Abst) Meteoritical Society ann. meeting (38th), Tours, France, p. 27.
- Berkley, J.L. and Himmelberg, G.R. (1978) The Deer Lake peridotite-gabbro complex, Minnesota: Cumulus mineralogy and petrology: Minnesota Geological Survey, Reports of Investigations (in press).
- Berkley, J.L., Callender, J.F., and Keil, K. (1976) Placitas-Juan Tabo contact aureole: Evidence for complex dynamothermal evolution through time: (Abst) Geol. Soc. America ann. meeting, Denver, Co. V. 8, No. 6, P. 776.
- Warner, R.D., Berkley, J., Mansker, W., Warren, R. and Keil, K. (1976) Electron microprobe analyses of spinel, Fe-Ti oxides and metal from Apollo 17 rake sample mare basalts: UNM Inst. of Meteoritics, Spec. paper # 16, pp. 114.
- Warner, R.D., Warren, R., Mansker, W., Berkley, J., and Keil, K. (1976) Electron microprobe analyses of olivine, pyroxene, and plagioclase from Apollo 17 rake sample mare basalts: UNM Inst. of Meteoritics, Spec. paper #15, pp. 158.
- Berkley, J.L., Fodor, R.V., and Keil, K. (1976) The Shaw Meteorite: Evidence for an igneous origin (Abst.) Meteoritics, V. 11, no. 4, p. 249.
- Berkley, J.L., Taylor G.J., Keil, K. (1978) Ureilites: Origin as related magmatic cumulates: (abstract) Lunar and Planetary Sci. IX, part 1, p. 73-75.
- Gomes, C., Keil, K., Berkley, J., Jarosewich, E., & Curvello, W.S. (1977) Mineralogy, petrology, and chemistry of the Itapicura Mivim, Macau, and Santa Barbara chondrites: (abstract) Meteoritics, v. 12, p. 241.
- Prinz, M., Nehru, C.E., Berkley, J., Keil, K., Jarosewich, E., Gomes (1976) Petrogenesis of the Serra de Mage cumulate eucrite: (abst.) Meteoritics, V. 12, no. 3, p. 341.
- Prinz, M., Keil, Hlava, P., Berkley, J., Gomes, C., and Curvello, W.S., (1977) Studies in Brazilian meteorites III: The Angra dos Reis Meteorite: Earth & Planet Sci. Lett. 35, 317-330.

RESUME OF : David E. Lange
 Institute of Meteoritics
 University of New Mexico
 Albuquerque, New Mexico 87131
 505-277-3842

MAJOR FIELD : Geochemistry

AREAS OF INTEREST : Meteoritics, extraterrestrial geochemistry, electron microprobe analysis and automation, igneous petrology and ore deposits

EDUCATION : MS, 1973, Arizona State University, Tempe, Arizona 85281
 Major: geochemistry GPA 3.86 31 semester hours
 Research director: Dr. Carleton B. Moore
 Thesis: The sulfide minerals of the LL chondrites

BS, 1970, Oregon State University, Corvallis, Oregon 97321
 Major: chemistry GPA 3.03 198 term hours
 chemistry 78 hours
 geology 24 hours

EMPLOYMENT :

.7-23-73 to present
 Institute of Meteoritics, University of New Mexico, Albuquerque, New Mexico 87131
 Staff scientist---my present duties include: computer programming, preparation of polished thin sections, care of meteorite collection and museum and conducting petrographic and microprobe studies on meteorites.

Employment prior to July 1973 was part time and summer employment while attending school, this includes:

9-70 to 4-73
 Dept. of Chemistry, ASU, Tempe, Arizona
 Graduate teaching and research assistant

7-66 to 8-70
 U.S. Bureau of Mines, Albany, Oregon
 Physical science aid

6-70 to 8-70
 Radiation Center, OSU, Corvallis, Oregon
 Research assistant for Dr. Schmitt

6-69 to 8-69
 Radiation Center, OSU, Corvallis, Oregon
 NSF undergraduate research participant working under Dr. Loveland

PUBLICATIONS : Meteorites of northeastern New Mexico (1976) New Mexico Geol. Soc. Guidebook, 27th Field Conf., Vermejo Park p 293-299. with Klaus Keil.

The Canyonlands meteorite (1974) Meteoritics 9 271-280. with Kent Frost, Paul Sipiera and Carleton Moore.

The Willowbar meteorite (1973) Meteoritics 8 263-275. with Carleton Moore and Kendall Rhoton.

Chondrules: an origin by impacts between dust grains (1973) Science 182 920-922. with John Larimer.

PROFESSIONAL MEMBERSHIPS : Geochemical Society
Meteoritical Society

PERSONAL DATA : Single 6'2" 175 lbs. 29 years old

BACKGROUND : Born in Yakima, Washington and brought up in Albany, Oregon.
Active in Audubon and presently president of the Central New Mexico Audubon Society.

OTHER INTERESTS : Birding, conservation, cross-county skiing, passive solar heated homes, photography, hiking, backpacking and astronomy.

REFERENCES : On request

- CURRICULUM VITAE -

Celso de Barros Gomes

PERSONAL DATA

Born: May 25, 1935; Cachoeira Paulista, São Paulo, Brazil.

Marital Status: Married, three children.

Citizenship: Brazil.

EDUCATION

Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, B. Sc., 1960.

Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, D. Sc., 1967.

Instituto de Geociências, Universidade de São Paulo, Livre Docente, 1971.

POSITIONS HELD

Assistant - Departamento de Mineralogia e Petrologia, Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, 1961-1967.

Assistant Professor - Departamento de Mineralogia e Petrologia, Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, 1967-1971.

Associate Professor - Departamento de Mineralogia e Petrologia, Instituto de Geociências, Universidade de São Paulo, 1971.

EXPERIENCE

Assistant Research Geologist - Department of Geology and Geophysics, University of California, Berkeley, U.S.A., September 1968 - October 1969.

Applied Research Laboratories, Sunland, California, U.S.A., January 1972.

Visiting Researcher - Department of Geology, University of Georgia, Athens, U.S.A., February - March 1972.

Guest Worker - National Bureau of Standards, Washington, D.C., U.S.A., March - June 1974.

Visiting Researcher - Institute of Meteoritics, University of New Mexico, Albuquerque, U.S.A., January-July 1976.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

Sociedade Brasileira de Geologia

Sociedade Brasileira para o Progresso da Ciência

Associação Brasileira de Gemologia e Mineralogia

Associação Latinoamericana de Geologia

Associação Latinoamericana de Editores de Geociências

Mineralogical Society of America

Microbeam Analysis Society

Meteoritical Society

International Association of Geochemistry and Cosmochemistry

INTERESTS

Petrology, geochemistry, meteorites, microprobe analysis.

HONORS

Geological Society of Brazil, Award, 1970.

SOCIETY OFFICES, COMMITTEES, etc.

Secretary, Sociedade Brasileira de Geologia, 1969-1971.

Council Member, Sociedade Brasileira de Geologia, 1969-1971.

Member, Organizing Committee, 22th Annual Meeting Sociedade Brasileira para o Progresso da Ciência, 1970.

Member, Organizing Committee, XXV Congresso Brasileiro de Geologia, 1971.

Member, Organizing Committee, 24th Annual Meeting Sociedade Brasileira para o Progresso da Ciência, 1971.

Associate Editor, Journal "Ciência e Cultura", 1971-1972.

Member, Editorial Board, Journal "Revista Brasileira de Geociências", since 1971.

Secretary, Sociedade Brasileira de Geologia, 1973-1975.

Council Member, Sociedade Brasileira de Geologia, 1973-1975.

Regional Editor, Journal "Revista Brasileira de Geociências", 1973-1975.

Member, Committee on Mesozoic Magmatism in Brazil, 1973.

Council Member, Associação Latinoamericana de Editores de Geociências, 1973-1976.

Council Member, Associação Latinoamericana de Geologia, 1973-1975.

Member, Organizing Committee, International Symposium on Continental Margins of Atlantic Type, 1975.

Secretary, Sociedade Brasileira de Geologia, 1975-1977.

Council Member, Sociedade Brasileira de Geologia, 1975-1977.

Associate Editor, Journal "Revista Brasileira de Geociências", 1975-1977.

Member, Organizing Committee, I International Symposium on Carbonatites, 1976.

Vice-President, Sociedade Brasileira de Geologia, 1977-1979.

Council Member, Sociedade Brasileira de Geologia, 1977-1979.

PUBLICATIONS

(Not listed are some 50 abstracts, published in scientific journals, proceedings of meetings, etc.)

- 01 - Contribuição ao conhecimento dos anfíbolitos do Jaraguá, SP. Soc. Bras. Geol. 11 : 57-78, 1962.
- 02 - Rochas cálcio-silicatadas da região de Perus, SP. An. Acad. bras. Ciênc. 36 : 361-372, 1963 (with U.G. Cordani and V.A.V. Girardi).

- 03 - Sobre a dannemorita dos xistos da região de Guarulhos, SP. An. Acad. bras. Ciênc. 36 : 287-294, 1964 (with J.M.V. Coutinho and A.B. Oliveira).
- 04 - A jazida de Cobre de Caraíba, BA: Alguns aspectos petrogenéticos. An. Acad. bras. Ciênc. 36 : 373-375, 1964 (with J.M.V. Coutinho).
- 05 - Petrochemistry of a Pre-cambrian amphibolite from the Jaraguá Area, SP, Brazil. J. Geol. 72 : 664-680, 1964 (with P. Santini and C.V. Dutra).
- 06 - Plano de desenvolvimento do vale do rio Ribeira e litoral sul. Parte geológica. DAEE, Secr. Serv. Obras Públicas do Estado de São Paulo, vol. 111, Parte 3, Título 1, Capítulo 2 : 1-56, 1964 (with A.J. Melfi, U.G. Cordaní and V.A.V. Girardi).
- 07 - Estudo geocronológico do maciço alcalino de Itapirapuã, SP, Brasil. An. Acad. bras. Ciênc. 37 : 497-501, 1965 (with U.G. Cordaní).
- 08 - Pargasita em dolomitos metamórficos no município de Tapiratiba, SP. An. Acad. bras. Ciênc. 38 : 29-46, 1966 (with J.M.V. Coutinho and A.B. Oliveira).
- 09 - The carbonatites from Brazil in Carbonatites, 538-539. Ed. by G.F. Tuttle and J. Gittins, Interscience Publishers, London, 1966 (with G.C. Melcher and J.M.V. Coutinho).
- 10 - Granadas titaníferas das rochas alcalinas de Itapirapuã, SP. An. Acad. bras. Ciênc. 40 : 313-326, 1968 (with C.V. Dutra, R. Hypólito and J.V. Valarelli).
- 11 - Nota preliminar sobre idades radiométricas em rochas da região da Serra dos Órgãos e vizinhanças (leste de Minas Gerais e Estado do Rio de Janeiro). Soc. Bras. Geol. 17 : 29-32, 1968 (with U.G. Cordaní, J. Delhal and D. Ledent).
- 12 - A short note about the carbonatites from Itapirapuã, SP, Brazil. An. Acad. bras. Ciênc. 41 : 195-198, 1969 (with C.V. Dutra).
- 13 - Electron microprobe analysis of zoned melanites. Amer. Min. 54 : 1654-1661, 1969.
- 14 - Pyroxenes from the alkaline rocks of Itapirapuã, SP, Brazil. Amer. Min. 55 : 224-230, 1970.
- 15 - Petrologia do maciço alcalino de Itapirapuã, SP. Inst. Geoc. Astron. 1 : 77-197, 1970.
- 16 - Some geochemical features of the alkaline rocks of Itapirapuã, SP, Brazil. An. Acad. bras. Ciênc. 42 : 521-534, 1970 (with C.V. Dutra).
- 17 - Geologia das rochas pré-cambrianas do Vale do rio Ribeira do Iguape. XXV Congr. Bras. Geol. 1 : 193-194, 1971 (with G.C. Melcher, U.G. Cordaní, E.C. Damasceno, V.A.V. Girardi and A.J. Melfi).

- 18 - Geologia da Folha de Guapiara, SP. An. XXV Congr. Bras. Geol. 1 : 95, 1971 (with U.G. Cordani, I. Bittencourt, J.S. Bettencourt, V.J. Fúlfaro, H. Lellis, G.C. Melcher and A.J. Melfi).
- 19 - Geologia da Folha de Apiaí, SP e PR. An. XXV Congr. Bras. Geol. 1 : 101, 1971 (with G.C. Melcher, I. Bittencourt, U.G. Cordani, E.C. Damasceno, V.A.V. Girardi and H. Lellis).
- 20 - Geologia da Folha de Cêro Azul, SP e PR. An. XXV Congr. Bras. Geol. 1 : 99, 1971 (with I. Bittencourt, U.G. Cordani, E.C. Damasceno, H. Lellis, G.C. Melcher and A.J. Melfi).
- 21 - Geologia da Folha de Eldorado, SP. An. XXV Congr. Bras. Geol. 1 : 103, 1971 (with U.G. Cordani, V.A.V. Girardi, H. Lellis, G.C. Melcher and A.J. Melfi).
- 22 - Geologia da Folha de Itararé, SP e PR. An. XXV Congr. Bras. Geol. 1 : 93, 1971 (with I. Bittencourt, U.G. Cordani, V.J. Fúlfaro, A.J. Melfi and S. Petri).
- 23 - The recently discovered Serra dos Carajás Iron Deposits, Northern Brazil. Econ. Geol. 66 : 985-994, 1971 (with G.E. Tolbert, J.W. Tremaine and G.C. Melcher).
- 24 - Polimetamorfismo dos anfibolitos do Jaraguá, SP.: Evidências químicas, minerais e texturais. Univ. São Paulo, Livre-Docência Thesis. Unpublished, 1971.
- 25 - Anfibólitos do corpo anfibolítico do Jaraguá, SP. Rev. Bras. Geoc. 2 : 236-259, 1972 (with M.C. v. Ooster-vick-Gastuche and C.V. Dutra).
- 26 - Chemical changes in plagioclases and their bearing on petrologic history of an amphibolite body. Amer. Min. 57 : 1860-1870, 1972.
- 27 - Geology and Iron Ore Deposits of the Serra dos Carajás region, Pará, Brazil in Symposium on the geology and genesis of Precambrian iron-manganese formations and ore deposits, pp. 271-280. Kiev, Ukrainian SSR, 1973 (with G.E. Tolbert, J.W. Tremaine and G.C. Melcher).
- 28 - Síntese da evolução dos anfibolitos do Jaraguá, SP. An. Acad. bras. Ciênc. 45 : 109-114, 1973.
- 29 - Nota sobre os minerais opacos dos anfibolitos do Jaraguá, SP. An. Acad. bras. Ciênc. 45 : 103-107, 1973.
- 30 - Princípios e Aplicações da Microsonda Eletrônica. Ciência e Cultura 25 : 711-722, 1973 (with V.A.V. Girardi).
- 31 - Geologia e Petrologia das rochas metamórficas e graníticas associadas do Vale do rio Ribeira de Iguape, SP e PR. Rev. Bras. Geoc. 3, 97-123, 1973 (with G.C. Melcher, U.G. Cordani, J.S. Bettencourt, E.C. Damasceno, V.A.V. Girardi and A.J. Melfi).

- 32 - Estudo petrológico do Dique de Toninhas, Ubatuba, Litoral Norte do Estado de São Paulo. An. Acad. bras. Ciênc. 45 : 659 , 1973.
- 33 - Mineralogia do Dique de Toninhas, Ubatuba, Litoral Norte do Estado de São Paulo: Feldspatos. Rev. Bras. Geoc. 4 : 80-87 , 1974.
- 34 - Análise de Agrupamento (Cluster-Analysis) aplicada ao Estudo Geoquímico do Granito de Itaoca, Região da Ribeira. An. XXVIII Congr. Bras. Geol. 7 : 161-168, 1974 (with P.M.B. Landim, J.R. Arruda and J.V. Fúlfaro).
- 35 - Granitos e Metamorfismo na Região do Vale da Ribeira, SP e PR. An. XXVIII Congr. Bras. Geol. 5 : 145-154, 1974 (with E. Wernick).
- 36 - Radiometric Age Determinations from the Serra dos Carajás Area, Northern Brazil. Geol. Soc. Amer. Bull. 86 : 939 - 942 , 1975 (with U.G. Cordani and M.A.S. Basei).
- 37 - Spinel Lherzolite Nodules in Basanite Lavas from Asuncion, Paraguay. Rev. Bras. Geoc. 5 : 176-185, 1975 (with J.C. Stomer, Jr. and J.R.F. Torquato).
- 38 - Geoquímica de Maciços Graníticos da Região da Ribeira, Parte 1: Elementos Principais. An. Acad. bras. Ciênc. 47 : 113-130 , 1975 (with J.R. Arruda, M. Berenholc and R. Hypólito).
- 39 - Geoquímica de Maciços Graníticos da Região da Ribeira, Parte 2: Elementos Traços. An. Acad. bras. Ciênc. 47 : 459-476, 1975 (with J.R. Arruda, M. Berenholc and R. Hypólito).
- 40 - Aspectos mineralógico-petrográficos da intrusão de José Fernandes, PR. An. Acad. bras. Ciênc. 47 : 439-450, 1975 (with A.J. Fierucetil).
- 41 - Projeto Viking: Missão a Marte. Ciência e Cultura 28 : 3-7 , 1976.
- 42 - Studies of Brazilian Meteorites II. The Avanhandava Chondrite: Mineralogy, Petrology and Chemistry. Rev. Bras. Geoc. 6 : 201-210, 1976 (with W. Paar, K. Keil and E. Jarosewich).
- 43 - Progress by the Consorts of Angra dos Reis. Lunar Science Conference VII, 1 : 443-445, 1976 (with K. Keil, M. Prinz, P.F. W.S. Curvello, G.J. Wasserburg, F. Tera, D.A. Papanastassiou, J.C. Huneke, A.V. Murali, M.S. Ma, R.A. Schmitt, G.W. Lugmair, K. Marti, N.B. Scheinin and R.N. Clayton).
- 44 - Pyroxenes and Olivines as Indicators of the Petrological Evolution of the Ivrea-Verbano Basic Formation (Italian Western Alps). Tscherms Min. Petr. Mitt. 23 : 175-190, 1976 (with S. Capedri, G. Rivalenti and E. Rubert).
- 45 - Meteoritos: Um tema atual de pesquisa. O Estado de São Paulo , Suplemento Cultural 20 : 14-15, 1977.
- 46 - Tectitos: Um material extraterrestre ? O Estado de São Paulo, Suplemento Cultural 41 : 6-7, 1977
- 47 - Studies of Brazilian Meteorites IV. Origin of a dark - colored unequilibrated lithic fragment in the Rio Negro chondrite. Rev. Bras. Geoc. 7 : 45-57, 1977 (with R.V. Fodor and K. Keil).

- 48 - Geoquímica de Maciços Graníticos da Região da Ribeira, Parte 3: Considerações Petroológicas. An. Acad. bras. Ciênc. 49: 157-169, 1977 (with E. Wernick).
- 49 - Studies of Brazilian Meteorites III. Origin and history of the Angra dos Reis achondrite. Earth Planet. Sci. Lett. 35: 317-330, 1977 (with M. Prinz, K. Keil, P.F. Hlava and J. Berkley).
- 50 - Studies of Brazilian Meteorites X. Mineralogy, Petrology and Chemistry of Sete Lagoas, Minas Gerais, Chondrite. Bol. Inst. Geoc. USP 8: 77-82, 1977 (with K. Keil).
- 51 - Estudos de Meteoritos Brasileiros XI. Revisão de um programa de pesquisa. Ciência e Cultura 29: 1094-1103, 1977 (with K.Keil).
- 52 - Caracterização química de feldspatos de rochas graníticas. An. Acad. bras. Ciênc. 48: 445-452, 1976 (with E. Ruberti and E. Wernick).
- 53 - Some geochemical features of the Toninhas Dyke, Ubatuba, State of São Paulo, Brazil. An. II Congresso Latinoamericano Geologia, Caracas, Venezuela (with M. Berénholc). In press.
- 54 - Coexisting pyroxenes in ultramafic and mafic rocks from Barra Velha, Santa Catarina, Brazil. J. Mineralogia, Vol. Especial "Djalma Guimarães" (with R.M. C. Soares and E. Ruberti). In press.
- 55 - Studies of Brazilian Meteorites V. Evidence for Shock Metamorphism in the Paranaíba, Mato Grosso, Chondrite. Rev. Bras. Geoc. (with K. Keil, E. Kirchner and J. Nelen). In press.
- 56 - Studies of Brazilian Meteorites VI. Mineralogy, Petrology and Chemistry of the Patrimônio, Minas Gerais, Chondrite. J. Mineralogia, Vol. Especial "Djalma Guimarães" (with K. Keil, E. Jarosewich and W.S. Curvello). In press.
- 57 - Studies of Brazilian Meteorites VII. Mineralogy, Petrology and Chemistry of the Uberaba, Minas Gerais, Chondrite. An. Acad. bras. Ciênc. 49: 269-274, 1977 (with K. Keil and E. Jarosewich).
- 58 - Studies of Brazilian Meteorites VIII. Mineralogy, Petrology and Chemistry of Itapicuru Mirim, Maranhão, Chondrite. An. Acad. bras. Ciênc. (with K. Keil, E. Jarosewich and W.S. Curvello). In press.
- 59 - Studies of Brazilian Meteorites IX. Mineralogy, Petrology and Chemistry of Macau, Rio Grande do Norte, Chondrite. An. Acad. bras. Ciênc. (with K. Keil and E. Jarosewich). In press.
- 60 - Meteorito Paranaíba, Mato Grosso: Uma revisão. An. Acad. bras. Ciênc. (with K. Keil). In press.
- 61 - Mineralogia Química e Petrologia dos Anfíbolitos da Região Morretes - Antonina, Paraná. Rev. Bras. Geoc. (with E. Ruberti). In press.
- 62 - Alkaline Rocks from Continental Brazil: A review, Earth Sci. Rev. (with H.H.G.J. Ulbrich). In press.

- 63 - Studies of Brazilian Meteorites XIII. Mineralogy, petrology and chemistry of the Putinga, Rio Grande do Sul, chondrite . Meteoritics (with K.Keil, D.Lange, M.N.C.Ulbrich, E.Jarosewich A.Roisenberg and M.J.Souz). In press.
- 64 - Studies of Brazilian Meteorites XIV. Mineralogy, petrology and chemistry of the Conquista, Minas Gerais, chondrite. Meteoritics (with K.Keil, E.Kirchner, E.Jarosewich and R.L.L. Murta). In press.
- 65 - Studies of Brazilian Meteorites XV. Mineralogy, petrology and chemistry of the Sao Jose do Rio Preto, Sao Paulo, chondrite. Bol. IG-USP (with M.N.C.Ulbrich; K.Keil, E.Kirchner and E.Jarosewich). In press.

INTRODUCTION

I am pleased to present the annual report of the Department of History for 1977-78. During the past academic year the Department maintained relative stability in its enrollments on both the undergraduate and graduate levels. Enrollments in introductory lower-division courses increased while those in upper-division courses decreased. Graduate enrollments remained steady but the composition of graduate students reflected changes from previous years, particularly in a greater number of minorities, women and non-traditional, and older students. To some degree, this reflected the Department's new program for Non-Traditional Students, adopted during 1977-78, to attract such persons to graduate studies in History.

The regular Departmental staff was augmented during the year by distinguished visitors. During the fall of 1977 Professor John Johnson of Stanford University offered courses in Latin-American history as did former President Paz-Estensorro of Bolivia in the Spring Semester. The Department's course on minorities in history attracted more than a dozen well known lecturers in the fields of Black history, Chicano history, Women's history, and Native American history.

In the past year members of the History Department staff maintained a high level of participation in professional activities and in scholarly publication as the more detailed listings in this report will indicate. Many also participated in faculty government activities such as the University Senate and various committees.

In its varied activities the Department is conscious of its responsibilities to the mission of the University, and to serving the needs of the people of New Mexico. In the coming year the Department hopes to continue--and to expand this tradition of service.

THE REPORT OF THE DEPARTMENT OF HISTORY

July 1, 1977 - June 30, 1978

Gerald D. Nash, Chairman

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements

1. Because of the moratorium on new courses, no new courses were added during the year. However, the Department did offer a course under History 320 - Studies in History, entitled "The Minority in History," which brought 12 prominent minority persons to campus as guest lecturers.

2. Activities Beyond the Formal Curriculum

- a. Two History journals, The Historian, Editor Gerald D. Nash, and The New Mexico Historical Review, Acting Editor Donald Cutter, continue to publish in the Department.
- b. The New Mexico Historians Guild, initiated by the UNM History Department in 1974, met in Albuquerque on April 1, 1978. Thirty historians from UNM and other state universities met to discuss mutual interests.
- c. The family of deceased History Professor George W. Smith established the George W. Smith Annual Lectureship, whereby a distinguished professor and authority in Civil War History is invited to campus as a guest lecturer. This year the Department chose Dr. Harold Hyman, William P. Hobby Professor of History at Rice University. Dr. Hyman, who is an eminent Civil War historian, spoke on "With Malice Toward Some: Scholarship (or Something Less) on the Lincoln Murder."

- d. Professor John H. Elliott of the Institute for Advanced Study at Princeton University visited the Department on October 31 and delivered a public lecture on "The Count-Duke of Olivares: The Problems of a Seventeenth-century Statesman."

- e. The following professors were guest lecturers in the History 320 course "The Minority in History." Their lectures were open to the public:

Eugene Genovese University of Rochester	"Afro-American Slave Revolts in the Revolutionary Era"
Thomas Holt Harvard University	"The Problem of Freedom: The U.S. and the British West Indies After Emancipation"
Arvarh Strickland University of Missouri	"Black Migration in the 20th Century"
Joan Jensen New Mexico State Univ.	"Women and Work in Four Cultures"
Kathryn Kish Sklar UCLA	"Female Strategies in Victorian Families"
Elsa Chaney, AID	"The Status and Condition of Women in Latin America"
Ralph Vigil University of Nebraska	"Chicano Identity and Culture and the Polarized Spanish Heritage"
Feliciano Rivera San Jose State Univ.	"The Migration North from Mexico in the 20th century"
Felix Almaraz University of Texas at San Antonio	"The Mexican-American in 19th Century U.S. History"
Juan Gomez-Quinones, UCLA	"Mexico American Labor, 1600-1900"
Rennard Strickland University of Tulsa	"The Indian Image: From Savage to Savior"
Wilcomb Washburn Smithsonian Institution	"Reconciling 'Traditional' Native American History with 'Critical' or 'Scientific' History"

f. Professor Steven Kramer will be co-Director of the French Summer School in Taos in the summer of 1978.

Several German-speaking History Professors also participated in the German Summer School in Taos last summer, including Professors Frank Ikle, Charles McClelland, and Gerald D. Nash.

g. The Department rewrote its Ph.D. Rules and Regulations, in order to reflect changing conditions in graduate studies.

h. The third issue of the departmental Newsletter, edited by Peter Kolchin, was distributed in January 1978. Four hundred copies were sent to other universities and History Ph.D. alumni.

i. An informal get-together for History undergraduate students was held in the departmental lounge on April 1. Approximately 100 History students and faculty attended.

j. The History Department held its annual dinner for faculty, staff and graduate students on April 28, 1978, in conjunction with the Phi Alpha Theta History honorary society conference. The guest speaker was Professor Robert Larson, from Northern Colorado State University.

k. The History Department noted a slight decline in upper division enrollment, but an increase of 12 percent in lower division courses, with an over-all enrollment increase of 5 percent in the fall semester.

1. The Department polled its graduating seniors and found that, of those reporting, 30 planned to continue their education, five did not, seven were undecided. Of this group 20 planned to return to UNM. Fields they planned to study included: Education, 3; Law, 9; History, 9; Music, 1; Public Administration, 2; Business Administration, 3. Twenty-two planned to seek jobs upon graduation and 11 had job offers. The jobs ranged from Banking to the Marine Corps to library and editorial researcher.

m. The Department instituted a plan for non-traditional students enabling them to obtain an M.A. in History. This is primarily aimed at the student over 25 who perhaps is not able to work full time on a graduate degree. The Department hopes to attract into this program such individuals as housewives, military personnel, senior citizens, and persons who have not attended college in a number of years. It provides special consideration for admission within the minimal requirements of the Graduate Studies Center and special counseling by members of the History Department faculty.

3. Honors

a. The Phi Alpha Theta International History honorary society's William M. Dabney Award for the best paper read at a Phi Alpha Theta conference was awarded to Michael Casillas.

b. Raymond Burrola, Salome Hernandez, Roy Lujan, and

Roberto Salmon were awarded Ford Foundation Fellowships for the academic year, 1977-78.

c. Richard Melzer and Michael Pogonyi, Ph.D. candidates, were awarded NDEA (Title VI) fellowships by Ibero-American Studies.

d. The Charles Florus Coan award for the graduating senior with the highest GPA was awarded to David M. Montague, with a grade point average of 3.6.

e. Two Grunsfeld Awards were given to undergraduate History majors--Chantal Winkless and Frederick Melton.

A Graduate Tuition Fellowship was awarded Susan McHale.

The John F. Kennedy awards, to graduate students working in the field of Southwestern History, were given to Thomas Chavéz and James Steensvaag.

4. Teaching Positions Held by 1977-78 Graduates: Ph.D.'s

a. Richmond Clow, Yankton College, South Dakota

b. Brian George, University of Colorado, Boulder

c. Darlis Ann Miller, New Mexico State University

d. Roberto Salmon, Western New Mexico State University,
Silver City

e. Steven Sayles, University of Texas, Arlington

f. Veronica Tiller, University of Utah, Salt Lake City

g. Raymond Wilson, Sam Houston State University, Huntsville,
Texas

B. Significant Plans and Recommendations for the Near Future

1. To expand course offerings in minority areas, Afro-American History, Mexican-American History, Native-American History.
2. To attract more non-traditional students by offering late afternoon and evening classes.
3. To offer more courses in Spanish in order to comply with new state requirements for Bi-lingual Education credentials.

C. Appointments to Staff

1. Visiting or Part-time Appointments

- a. John Johnson, Professor of History at Stanford University, Latin American History, Semester I, 1977-78.
- b. Shirlene Soto, La Raza History, Semester I, 1977-78.
- c. Cortez Williams, Blacks in Latin America, Semester I, 1977-78.
- d. John Kessell, Southwestern History, Semester II, 1977-78.
- e. Victor Paz Estenssoro (former President, Bolivia) Latin American History, Semester II, 1978.
- f. Michael Weber, The Historian and the Museum, Semester II, 1977-78.
- g. Joseph Sanchez, Southwestern History, Arizona State University, Summer, 1978.

2. New Faculty Appointments

- a. Professor Manuel Servin, retired due to illness, to Adjunct Professor, Fall 1977.
- b. Richard W. Etulain, to assume duties as Professor of History and Editor of the New Mexico Historical Review in Fall 1979.

- c. Frank M. Wozniak, Appalachia State College, replacing Grietje Sloan, Visiting Assistant Professor in Western Civilization, Fall 1978.

3. New Staff

- a. Avis Trujillo, Secretary, 8/25/77.
- b. Patricia Cleve, Secretary, 10/14/77
- c. Edith Jonas, Assistant to Editor, The Historian, 7/25/77.

4. Promotions

none

D. Separations from Staff

- 1. Manuel Servin, retired due to illness, August 1977.
- 2. Pramita Ghosh, resigned, May 18, 1978.

II. Composite of information requested on individual biographical supplements: (period January 1 - December 31, 1977).

1. ADVANCED STUDY

CONNIFF, Michael L.

Attended Scholar-Diplomat program on Latin America, April 2, 1977, sponsored by U.S. Department of State, Washington, D.C.

2. SABBATICAL, SUMMER TEACHING, TRAVEL, ETC.

BERTHOLD, Richard M.

June and July spent examining Greek and Roman antiquities in southern Italy and Sicily.

CONNIFF, Michael L.

Taught seminar in research methods at Pontifical Catholic University of Rio de Janeiro, Brazil, also conducted research in Brazil over the summer of 1977.

KERN, Robert W.

Sick leave, Semester I, 1977.

KRAMER, Steven Philip

Research in Belgium, July, 1977.

LIEUWEN, Edwin

Research in Mexico, Summer, 1977. Took Sabbatical leave Fall 1977.

McALLISTER, Paul E.

Summer travel for research on 19th century political behavior: Columbia and St. Louis, Mo.

McCLELLAND, Charles E.

Taught at German Summer School in Taos, June-July, 1977. On Sabbatical leave in England and Germany, Fall 1977.

NASH, Gerald D.

Sabbatical leave, Spring 1977.

PORTER, Jonathan

Sabbatical leave, Fall and Summer.

RABINOWITZ, Howard

Sabbatical leave Fall 1977; conducted research in Montgomery, Alabama, Jan. 1977.

ROBERTSON, W. Glenn

Summer trip to visit Civil War battle sites in Tennessee and Virginia--gathered material for Civil War class.

SKABELUND, Donald

Sabbatical leave, 1977-78.

SPIDLE, Jake W.

During the period Jan. 1, 1977, through August 25, 1977, on Sabbatical leave. January through mid-March on research trip in central Europe to archives in Hamburg, Koblenz, Munich, Stuttgart, West and East Berlin, and Potsdam.

SZASZ, Ferenc

Travel to New England during the Summer of 1977 for research at several libraries there.

3. NEW SCHOLASTIC HONORS

CONNIFF, Michael

Two research grants from Research Allocation Committee. One research grant from American Philosophical Society.

DABNEY, William M.

Educator of the month, Las Campanas, September 1977; Honorary member of Phi Eta Sigma, freshman honorary, 1977.

KRAMER, Steven

Grant from Research Allocations Committee for research in Belgium.

McClelland, Charles E.

Grant-in-aid from American Philosophical Society.

PORTER, Jonathan

A.C.L.S. Grant for research in Chinese Civilization.

RABINOWITZ, Howard

National Endowment for the Humanities Fellowship for Independent Study and Research for 1978.

ROBBINS, Richard

Participant in Summer Research Laboratory at Russian and East European Center, University of Illinois, July 1977.

ROEBUCK, Janet

Inducted into Phi Kappa Phi national honor society.

SLAUGHTER, M. Jane

University Research Grant, July, 1977--Hoover Institution, Stanford. Nominated by University for 1978 NEH Summer Stipend, Fall 1977. Nominated, Outstanding Teacher, Spring 1977.

SPIDLE, Jake W.

International Research and Exchanges Board Fellow, Exchange Scholar with the German Democratic Republic, 1976-77.

4. PUBLICATIONSBOOKS

BAKEWELL, Peter J.

"Zacatecas: an economic and social outline of a silver mining district, 1547-1700," chapter 6 (pp. 199-230) of Provinces of Early Mexico. Variants of Spanish American Regional Evolution, edited by Ida Altaman and James Lockhart, UCLA Latin American Center Publications, University of California, Los Angeles, 1976. (This was not reported in 1976 supplement. Book did not appear until 1977.); Mineria y sociedad en el Mexico colonial. Zacatecas (1546-1700), Fondo de cultura Economica, Madrid, Mexico City, Buenos Aires, 1977. (This is a direct translation of my book, Silver mining and society in colonial Mexico. Zacatecas 1546-1700, Cambridge University Press.

NASH, Gerald D.

Reprint of The American West in the 20th Century, UNM Press, 1977, 312 pp.

ARTICLES

BAKEWELL, Peter J.

"Technological change in Potosi: the silver boom of the 1570's," Jahrbuch fur Geschichte von Staat, Wirtschaft und Gesellschaft Lateinamerikas, Band 14, 1977, Bohlau Verlag, Koln, Wien.

CONNIFF, Michael

"Guayaquil Through Independence: Urban Development in a Colonial Setting," The Americas, 1977, Vol. 33, No. 3, pp. 335-410.

CUTTER, Donald

"Prelude to a Pageant in the Wilderness," in Western Historical Quarterly, Vol. 8, No. 1, January 1977, pp. 4-14; "Técnicas de la investigación Histórica" in Docencia, Vol. V, No. 1, February 1977, pp. 6-30; "Malaspina's Grand Expedition" in In the Pursuit of Knowledge (Santa Fe, Museum of New Mexico, 1977), pp. 28-41; (with Mercedes Palau de Iglesias), "Malaspina's Artists," in In the Pursuit of Knowledge (Santa Fe, Museum of New Mexico, 1977), pp. 19-27;

CUTTER (continued)

(Both of the preceding items were also printed in El Palacio, Vol. 82, No. 4, pp. 19-41; "The Missions and their Legacy to San Antonio and the Borderlands" in Almaraz (ed.), Proceedings of the Missions of San Antonio - A Heritage for All Americans (Bejar County Historical Commission, San Antonio, 1976), pp. 28-41.

ELLIS, Richard

"Recent Publications on American Indian History: A Review Essay," New Mexico Historical Review, Oct. 1977, pp. 337-343; "The Army on the Frontier," pp. 49-52; "The Indian Wars," pp. 558-559; "Ranald Mackenzie," pp. 348-350; "Nelson A. Miles," pp. 730-731; "Thomas Jesup," p. 599; "James Carleton," p. 164; "William T. Sherman," pp. 1105-1106; "Philip Sheridan," p. 1105; "Alfred Sully," p. 1150; "Benjamin Grierson," p. 468; "John Pope," pp. 949-950; "Edwin V. Sumner," p. 1150; "Palo Duro Canyon," p. 892; "Sand Creek Massacre," p. 1066; "Minnesota Uprising," pp. 749-50; "Beecher's Island," p. 86; "Nez Perce Campaign," p. 843; "Fort Belknap," p. 388; "Fort Sill," pp. 396-97; "Fort Robinson," p. 391; "Fort Larned," p. 390; "Fort Bowie," p. 388; "Fort Defiance," p. 389; "Fort Kearny," pp. 389-90; "Fort Brooke," pp. 388-89; "Fort Wayne," p. 399; "Fort Garland," p. 389; "Fort Craig," p. 389; "Fort Walla Walla," p. 399; "Fort Leavenworth," p. 390; "Fort Davis," p. 389; "Fort Union," pp. 398-99; "Fort Rice," p. 391; "Fort Laramie," pp. 390; "Fort Crawford," p. 389; "Fort Phil Kearny," p. 391; "Fort Douglas," p. 389; above published in Readers Encyclopedia of the American West, ed. by Howard Lamar, Lippencott, 1977.

IKLE, Frank W.

"Interdependence in History," in Interdependence and Interdisciplinary Studies, A. J. Bahm, World Books, Albuquerque, 1977, pp. 66-71.

KERN, Robert W.

"Spanish Liberalism and the Themes of Banditry and Guerrilla Resistance, 1834-1845," in Harold Parker (ed.), Fifth Annual Proceedings of the Consortium on Revolutionary Europe (Athens: University of Georgia Press), pp. 104-121.

KRAMER, Steven

"A Reply to Michel Brelaz," Res Publica, 1977:1, pp. 147-150; "Therapeutic Cinema and the Repressive Mind: Conversations with Peter Watkins," (co-author J. Welsh), Film and History, 1977:1, pp. 6-13, 1977:11, pp. 34-42.

McCLELLAND, Charles

"German Universities in the Eighteenth Century: Crisis and Renewal," in Facets of Education in the Eighteenth Century, special issue of Studies on Voltaire and the Eighteenth Century, Vol. 167, (Oxford, 1977), pp. 169-189.

PUGACH, Noel

"American Friendship for China and the Shantung Question at the Washington Conference," Journal of American History, 1977, Vol. 64, No. 1, 67-86.

RABINOWITZ, Howard

"Continuity and Change: Southern Urban Development 1860-1900," in The City in Southern History, edited by Blaine A. Brownell and David R. Goldfield (Kennikat Press, 1977), 92-122, 204-09.

SLAUGHTER, M. Jane

"Women and Socialism: The Case of Angelica Balbanoff," Social Science Journal, April 1977, pp. 57-67.

STEEN, Charlie R.

"A City in Revolt: Tournai, 1562-1567," Proceedings, West. Soc. for French History, 1977, IV, 66-74.

SZASZ, Ferenc

"Reverend G. D. Forssell and His Magic Lantern Shows, The Palimpsest: Iowa's Popular History Magazine 58 (July/August 1977) 111-119; (with Ralph F. Bogardus) "Wheeler and Holy Cross: Colorado's 'Lost' National Monuments," Journal of Forest History 21 (July 1977), 133-144.

REVIEWS

BAKEWELL, Peter

Liss, Peggy K., Mexico under Spain, 1521-1556. Society and the origins of nationality, and of Israel, J. I., Race, class and politics in colonial Mexico, 1616-1670, in Social History, January 1977, Vol. 1, pp. 537-539; Alvaro Lopez Miramontes (ed.), Las minas de Nueva Espana en 1753, in The Americas, July 1977, Vol. 34, pp. 144-45; James W. Wilkie, Michael C. Meyer, and Edna Monzon de Wilkie (eds.) Contemporary Mexico in New Mexico Historical Review, July 1977, Vol. 52, pp. 258-59.

CONNIFF, Michael

Shepard Forman, The Brazilian Peasantry, in The Modern Language Journal, 1977, Vol. 61, pp. 150-151; Carl A. Hanson, Dissertations on Iberian and Latin American History, in The New Mexico Historical Review, 1977, Vol. 52, pp. 261-262; Michael T. Hamerly, El comercio del cacao de Quayaquil durante el periodo colonial, in The Americas, 1977, Vol. 34, p. 305.

CUTTER, Donald

Escuela de Estudios Hispano Americanos, Anuario de Estudios Americanos, Vol. XXX, for Journal of the West; Warner and Chavez, The Dominguez-Escalante Journal, for Western Historical Quarterly; Espinosa, Inter-American Beginnings of U.S. Cultural Diplomacy for The Americas; Brackenridge and Garcia-Treto, Iglesia Presbiteriana, for Catholic Historical Review; Echevarria and Otero (eds.), Hispanic Colorado, for The Colorado Magazine; Hardeman, Westward Calling: The Hardeman Family in the Westward Movement for The History Teacher; Hardy, Travels in the Interior of Mexico, 1825, for Hispanic American Historical Review; Bancroft Library, The Plate of Brass Reexamined, for Southern California Quarterly.

DABNEY, William

John H. Moore, Ablemarle: Jefferson's County, 1727-1976, in Pennsylvania Magazine of History and Biography, June, 1977; Larry G. Bowman, Captive American: Prisoners During the American Revolution, Fall 1977.

ELLIS, Richard

Iris Engstrand, Royal Officer in Baja California, in Pacific Historical Review, November 1977; Craig Miner, Corporation and the Indian in American West, September 1977; Lawrence Powell, Arizona: A Bicentennial History in History, April 1977; John Kessell, Friars, Soldiers and Reformers in Social Science Quarterly, December 1977; Mark Reisler, By the Sweat of their Brow: Mexican Immigrant Labor in the United States, 1900-1940, in Journal of the West, January 1977; Donald Worcester, Forked Tongues and Broken Treaties in American Indian Quarterly, Autumn 1977; George Phillips, Chiefs and Challengers in Journal of the West, January 1977; James Haley, The Buffalo War in Pacific Northwest Quarterly, October 1977; David Perkins and Norman Tanis, Native Americans of North America in Pacific Historical Review, February 1977; Dwight Smith, Indians of the United States and Canada in Pacific Historical Review, February 1977; William Hodge, A Bibliography of Contemporary North American Indians in Pacific Historical Review, February 1977; Bruce Rosenberg, Custer and the Epic of Defeat in Michigan History, Vol. 59, No. 4; Francis Paul Prucha, Documents of United States Indian Policy in Colorado Magazine, Vol. 53, No. 4; Herman Viola, The Indian Legacy of Charles Bird King in Indiana Magazine of History, June 1977; Daniel Matson and Bernard Fontana, Friar Bringas Reports to the King: Methods of Indoctrination on the Frontier of New Spain, 1796-97 in Journal of Arizona History, Vol. 18, No. 4; Daniel Tyler, Red Men and Hat Wearers in Chronicals of Oklahoma, Vol. LV, No. 2; Frank McCulloch, Eagle in the Sky in Southwest Heritage, Summer 1977; John Gray, Centennial Campaign: The Sioux War of 1876 in South Dakota History, Summer 1977.

IKLE, Frank W.

Peter Duus, "History of Japan," Journal of Oriental Studies, Hong Kong; Jeannette Mirsky, "Sir Aurel Stein, Archeological Explorer," in Isis, Washington, D.C.; Contributor, CLIO, American Bibliographical Center.

KERN, Robert W.

Martin Blinkerborn, Carlism and Crisis in Spain in The Journal of Modern History, Vol. 49, No. 2 (June 1977), pp. 318-19; and Jose Maravall, Dictatorship and Political Dissent: Workers and Students in Franco's Spain, in Iberian Studies, Vol. V, No. 3 (Fall 1977), pp. 123-25.

KOLCHIN, Peter

Essay-review: "The Sociologist as Southern Historian," Reviews in American History, V (March 1977), 21-27; C. Peter Ripley, Slaves and Freedmen in Civil War Louisiana in Journal of American History, September 1977, 443-444; Sarah Woolfolk Wiggins, The Scalawag in Alabama Politics, 1865-1881, in Civil War History, September 1977, 271-73; McPherson, James M., The Abolitionist Legacy: From Reconstruction to the NAACP in Wisconsin Magazine of History, Spring, 1977.

KRAMER, Steven

Judt, T., "La Reconstruction du Parti socialist," in AHR, April 1977, pp. 373-4; "La Liberation de la France," AHR, October 1977, pp. 986-7.

McCLELLAND, Charles

Folkert Haferkorn, "Soziale Vorstellungen Heinrich Von Sybels," in American Historical Review, October 1977, p. 999. Peter Hanna Reill, The German Enlightenment and the Rise of Historicism, and Heinrich von Treitschke, History of Germany in the Nineteenth Century: Selections From the Translation of Eden and Cedar Paul, edited and introduced by Gordon A. Craig, in American Historical Review, February 1977, pp. 125-6.

NASH, Gerald D.

L. Arrington, Building the City of God in Agricultural History, Vol. 51, October 1977, pp. 789-90; E. A. Copp, Regulating Competition in Oil in Business History Review, Vol. 51 (Autumn 1977), 406-7.

PUGACH, Noel

RABINOWITZ, Howard

ROBBINS, Richard

ROEBUCK, Janet

SULLIVAN, Donald

SZASZ, Ferenc

5. OTHER RESEARCH PROJECTS

BAKEWELL, Peter

BERTHOLD, Richard

Irvine H. Anderson, Jr., The Standard-Vacuum Oil Company and United States-East Asian Policy, 1933-1941 in American Historical Review, 1976, Vol. 81, No. 5, 1274-75; Hiram Bingham, The Monroe Doctrine in Reprint Bulletin-Book Reviews, Vol. 22, 1977, No. 2, 11.

Robert Shogan and Tom Craig, The Detroit Race Riot: A Study in Violence in Reprint Bulletin-Book Reviews, XXII (Summer 1977), 14; August Meier and Elliott Rudwick, Along the Color Line: Explorations in the Black Experience in Journal of Southern History, XLIII (November 1977), 636-37; Frank Lincoln Mather, Who's Who of the Colored Race, 1915, Vol. I in Reprint Bulletin-Book Reviews, XXII (Winter 1977-1978), 11.

Daniel Field, The End of Serfdom in Canadian American Slavic Studies, (forthcoming).

I.M.J. Cullen, The Statistical Movement in Early Victorian Britain: The Foundations of Empirical Social Research in American Historical Review; Henry Weisser, British Working Class Movements and Europe, 1815-48 in American Historical Review.

R. Pfeiffer, History of Classical Scholarship from 1300 to 1850, in American Historical Review, 1977, p. 16.

John A. Andrew III, Building the Christian Commonwealth: New England Congregationalists and Foreign Missions, 1800-1830, in Choice 13 (February 1977), p. 1614.

Work in progress on a book about the silver mining industry of Potosi (Bolivia) 1545-1650.

Writing book on Rhodian history and studying an Hellenistic Greek inscription found in Morgantina, Sicily for possible publication.

CONNIFF, Michael

Article entitled, "The Tenentes in Power: A New Perspective on the Brazilian Revolution of 1930," accepted for publication in the Journal of Latin American Studies in 1978.

DABNEY, William

Continuation of research on the Scots in the American Revolution.

ELLIS, Richard

Introduction to new printing of Land of the Spotted Eagle by Luther Standing Bear for the University of Nebraska Press; "Robert L. Bennett, Commissioner of Indian Affairs," chapter for a book on the Commissioners of Indian Affairs, edited by R. Kvasnicka and H. Viola, to be published by the University of Nebraska Press.

IKLE, Frank

"Geopolitics Revisited: The Indian Ocean, Spring 1942-Scene of Lost Opportunity," paper to be presented at the Asian Studies at the Pacific Coast meeting in June 1978.

KERN, Robert

Red Years/Black Years: A Political History of the Spanish Anarchists, 1911-1937 (Philadelphia: Institute for the Study of Human Issues, 1977-78), published in January 1978; American Philosophic Society sponsored The 'Black Flag' International Between the Wars: The International Workingmen's Association, 1921-1940. I am also negotiating with Greenwood Press for publication of Spanish Labor Movements Since 1850 as a part of their series "International Labor Movements," edited by Milton Canton. With Jane Slaughter I am co-editing Radical European Women: A Study of Socialism and Feminism.

KOLCHIN, Peter

Two articles completed and accepted for publication in 1978: one in the Journal of Southern History and one in the Journal of Social History; continuing research on comparative study of American slavery and Russian serfdom.

KRAMER, Steven

Work in progress: completed article on Belgian socialism 1944-1950, final revision of Abel Gance published in April 1978, preliminary research on Lamartine and 1848.

LIEUWEN, Edwin

Research continues on biography of Alvaro Obregon.

MCALLISTER, Paul

Continued research on politics: did computer analysis at University of Missouri-Columbia during summer. Compiled computer listing of Missouri newspapers in State Historical Society of Missouri. Research on process of creating national monuments (National Park Service).

McCLELLAND, Charles

Finished writing the substantial chapters of a book, State, Society and University in Germany, 1700-1914.

NASH, Gerald

Completion of book-length manuscript for St. Martin's Press, Organizing America: Franklin D. Roosevelt and the Bureaucratic Revolution in America, 1933-1945: review of Joe Stork, Middle East Oil and the Energy Crisis in Pacific Historical Review, Vol. 46 (May 1977), 318-320.

PORTER, Jonathan

Completed article: "Foreign Affairs (Yang-wu) Expertise in the Late Ch'ing: The Case of Chao Lieh-wen"; article in progress: "Social Structure of Science in the Ch'ing Period"; monograph in progress: Science and Science in China, 1600-1900.

PUGACH, Noel

Completed final revisions of a book tentatively entitled Paul S. Reinsch: Open Door Diplomat, to be published in 1978. Completed and revising article, "Anglo-American Aircraft Competition and the China Arms Embargo, 1919-1921."

RABINOWITZ, Howard

"New Contributions in Black History," South Atlantic Urban Studies (forthcoming) continued research for article on black politician Holland Thompson of Montgomery; began research for book-

RABINOWITZ (continued)

length study tentatively entitled "Coping with Urban Growth in the Sunbelt: Albuquerque, N.M., 1940-1974"; completed book reviews for American Historical Review, Alabama Historical Review and Reprint Bulletin-Book Reviews.

ROBBINS, Richard

Continue to work on a study of Russian Provincial Governors, 1880-1905.

ROBERTSON, W. Glenn

Article: "The Siege of Suffolk," submitted for possible publication; revision of dissertation continuing for submission to publishers in 1978; continuation of research on long-term projects: "The Civil War in the Suffolk-Franklin-Zuni Triangle" and "The Battle of the Crater."

ROEBUCK, Janet

"Female Stereotypes and the Treatment of the Aged in England," a paper presented at the Western Social Science Conference, Denver, Spring 1977. Contributor to program on "The Welfare Mess" for the New Mexico Humanities Council (in progress).

SKABELUND, Donald

Continuing work on book manuscript, "Structure of Theory in Historical Perspective"; collection of notes on Mythopoeic vs. Rational thought.

SLAUGHTER, M. Jane

"Women and the Italian Resistance," completed examination of materials at New York Public Library, and Hoover Institution; "Feminism and Socialism: Theoretical Debates from an Historical Perspective," article completed and under revision at present; co-author with Professor Kern for proposed reader on "Women and Socialism" in progress; co-authoring with Professor Roebuck an article on public policy and stereotypes of the Aged: Men and Women.

SPIDLE, Jake

Research completed for monograph, "The German Colonial Empire, 1884-1918: An Administrative History"; research in progress on German role in history of tropical medicine; preparation of new course in History of Modern Medicine; gave colloquium (Fall 1977) on "Topics in the History of Modern Medicine."

STEEN, Charlie. Nearing completion of a monograph on Tournai in the period of the Regency of Margaret of Parma: continuation of research into the period (1559-1567) for the whole of the Netherlands; engaged in a translation of the Chronique of Pasquier de le Barre, a lengthy account of events in Tournai during the period of Margaret of Parma.

SULLIVAN, Donald. Completing historiographical study of problem of the ending of the Middle Ages.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

BAKEWELL, Peter. Paper: "Indian labor in sixteenth century Potosi," a paper presented at the 25th annual meeting of the Rocky Mountain Council on Latin America, Tucson, April 1977; Chairman, Herbert Eugene Bolton Memorial Prize Committee; conference on Latin American History, 1977.

CONNIFF, Michael. "U.S. Policy Toward Latin America," Conference on Contemporary Latin America, University of New Mexico, April 1977, panel discussant: "Social Structure in Nineteenth Century Argentina and Brazil," Southern Historical Association meeting, November 1977.

CUTTER, Donald. Participation as a member of the UNM Faculty Seminar on Bilingual Education, consisting of weekly seminars and participation in teaching linguistics course; chairman of session at Western Social Science Association Conference, Denver; chairman of session at Rocky Mountain Council on Latin American Studies Conference, Tucson; attended Organization of American Historians Conference, Atlanta; attended Western Historical Conference, Portland; attended New Mexico Historical Conference, Las Cruces; attended 9th Annual Western Canadian Study Conference, Calgary, Canada; commentator of session at Pacific Coast Branch of American Historical Assn conference in Flagstaff; independent evaluator for National Endowment for the Humanities; reviewer for National Endowment for the Humanities Research Collections Programs; reviewer for National Endowment for Humanities Museums and Historical Organizations program; program consultant for National Endowment for the Humanities.

CUTTER (continued)

council member for Western History Assn.; presented paper at Symposium on the Art and History of Spain in America, Santa Fe; presented paper at Cultural Conflict in New Mexico Conference, Museum of Albuquerque; presented faculty workshop of Oral History at Cameron University, Oklahoma; chairman, Resolutions Committee, Pacific Coast Branch of American Historical Association.

DABNEY, William

Attended meeting of American Historical Association, Dallas, December 1977.

ELLIS, Richard N.

Paper, Society of American Archivists, October 1977; paper, Conference on Cultural Conflict in New Mexico, June 1977; chairman, History session, Western Social Science Assn., April 1977; chairman, Indian Studies Session, Western Social Science Assn., April 1977; chairman, Conference on Cultural Conflict in New Mexico, June 1977; chairman, Phi Alpha Theta Regional Conference, April 1977; attended meeting of Western History Assn., October 1977; chairman of sites committee of Western History Assn.; Member of program committee of Western History Assn.; member of membership committee of Western History Association; member of membership committee of Organization of American Historians; Associate Editor, Red River Valley Historical Review; member of board of editors, American Indian Quarterly; member of board of editors, Teaching History; evaluated manuscripts for University of New Mexico Press, University of Nebraska Press, New Mexico Historical Review, Teaching History, and Indiana University Press; evaluated proposals for National Endowment for the Humanities and the National Historical Publications Commission; member of New Mexico Historical Records Advisory Board.

IKLE, Frank

Chairman, Nominating Committee, Western Conference of Asian Studies; lecture, Southern California Japan Research Society, UCLA, "Diplomacy and Ideology," June 1977, Los Angeles; participant, United States-Japan Symposium, March 1978, Albuquerque Convention Center, sponsored by Consulate General of Japan in Los Angeles; chairman and discussant, "Diplomacy in East Asia: China and the World," Asian Studies on the

IKLE (continued)

Pacific Coast Meeting, Eugene, Oregon, June 1977; chairman, "Japanese Military Affairs: A Historical View," Western Conference of Asian Studies, Colorado Springs, Colorado, October 1977.

KERN, Robert

"New Ideas about Anarcho-Syndicalism," a paper delivered in Tempe, Arizona, at the Southwestern Labor History Association, April 1977.

KOLCHIN, Peter

Meetings attended: New Mexico Historians' Guild, Las Cruces, March 1977; Southern Historical Association convention, New Orleans, November 1977.

KRAMER, Steven

Attended Western Conference on French History, November 1977.

LIEUWEN, Edwin

Attended American Historical Association meetings in Dallas, December 1977.

MALLISTER, Paul

Joined National Trust for Historic Preservation, American Association for State and Local History, Social Science History Association, Disciples of Christ Historical Society, and State Historical Society of Missouri.

MCCLELLAND, Charles

Professional papers read: 1) "Social and Political Factors in the Evolution of the Modern German University," presented at German Historical Institute, London, November 1977; 2) "Soziopolitische Faktoren in der Entstehung der Seminare und Institute an deutschen Hochschulen, 1840-1914," presented at Research Center for Science Studies, University of Bielefeld, Germany, December 1977; 3) "Begriffs- und methodologische Probleme der deutschen Universitätsgeschichte vor und während der Ära Humboldt," presented at Historical Seminar, University of Bielefeld, Germany, December 1977; 4) "Staat und Gesellschaft in der deutschen Universitätsgeschichte: Ein Vergleich zwischen dem späten 18. und dem späten 19. Jahrhundert," presented at Research Division, Historical Seminar, University of Cologne, Germany, December 1977. Meeting attended: Conference of the German Historical Institute on Decision-Making Processes and Society in Wilhelmine, Germany, Mannheim, Germany, December 8-11, 1977; also

McCLELLAND (continued)

invited to speak at the University of London, University of Munich, and Sixth Section of the Centre National de la Recherche Scientifique, Paris, but unable to appear because of scheduling difficulties.

NASH, Gerald

Appointed to editorial board, Agricultural History; member, Committee on Bibliography, Western History Association, attended meeting in Denver, March 1977; member, Executive Council, American Historical Association, Pacific Coast Branch, attended annual meeting in Flagstaff, August 1977; chairman, session on Minority Rights at Conference on Minority Rights, Museum of Albuquerque, June 1977; attended annual meeting of Phi Alpha Theta, Dallas, December 1977, member of Executive Council; attended American Historical Association annual meeting, Dallas, December 1977.

PORTER, Jonathan

Paper read: "The Social Structure of Science in China during the Ch'ing Period," Western Conference for the Association of Asian Studies, October 1977; Executive Secretary, Western Conference for the Association of Asian Studies; member, Nominating Committee, Western Conference for the Association of Asian Studies.

PUGACH, Noel

Discussant, session on U.S.-China Relations: 20th Century, annual meeting of the Western Conference for the Association of Asian Studies, October 1977, Air Force Academy, Colorado; elected to the Nominating Committee of the Western Conference for the Association of Asian Studies, 1977-78.

RABINOWITZ, Howard

"A Comparative View of Race Relations in Northern and Southern Cities, 1860-1900," a paper presented at the Organization of American Historians' Convention, Atlanta, Georgia, April 1977; "Ethnicity, Class and Voluntary Associations," session chaired at the Pacific Coast Branch of the American Historical Association Convention, Flagstaff, August 1977; attended Southern Historical Association Convention, New Orleans, November 1977; attended American Historical Association Convention, Dallas, December 1977.

ROBBINS, Richard

"Guarding the Guardians, Central Control Over the Russian Provincial Governors, 1880-1905," paper read at Southern Historical Association meeting, New Orleans, November 1977.

SLAUGHTER, M. Jane

Chair, Women's Studies Program, Western Social Science Association Conference, Denver, April 1977; chair-commentator for "The Black Women: Submission or Rebellion"; chair-commentator for "Women in Latin America"; paper presented, Women and Law Conference, Albuquerque, October 1977; conference attended, Women and Power in History, University of Maryland, November 1977.

SPIDLE, Jake

Attended American Historical Association, Pacific Coast Branch meeting, August 1977; served as commentator for panel on "Germany: the Interwar Struggle"; colloquium participant, "Deutscher Herrschaft in Kamerun," at Humboldt-Universität, (East) Berlin, November 1977.

STEEN, Charlie

Attended meeting of Western Society for French History, served on the program committee for the past meeting; re-elected to the Advisory Board for the coming year.

7. OTHER PROFESSIONAL ACTIVITIES

BERTHOLD, Richard

Participation in design of a simulations game on the Battle of Marathon for Game Designers' Workshop.

CONNIFF, Michael

Host for Ms. Joan Colbert, Western Regional Officer for Programs, Department of State, September 1977; host for Dr. David Smith, Latin American Specialist with the Department of State for three-day visit to campus and a number of public appearances, September 1977; host for Dr. Rolando Mellafe, Chilean Historian, for a two-day visit to campus, October 1977.

CUTTER, Donald

Spoke at University of Calgary; interviewed on Canadian Broadcasting System radio, Calgary; spoke to New Mexico Genealogical Society; spoke at Oakland Museum, Malaspina Conference; spoke to Albuquerque Corral of Westerners International; spoke to Graduate Club, Albuquerque; spoke at Oklahoma City Civil War Round Table; spoke at Bethany Nazarine College, Oklahoma City; spoke

CUTTER (continued)

twice in the N.C. Pender Distinguished Lecturer series at Central State University, Oklahoma; spoke at Chaves County Historical Society, Roswell; TV interview for *Asi en Nuevo Mexico*, KMXN-TV (Ch. 23); spoke at fall meeting of New Mexico Council for Social Studies; taped TV program for Introduction to Social and Cultural History of New Mexico for University of New Mexico Department of Sociology, with Professor David; manuscript opinions for: The American West (three times), Pacific Northwest Quarterly; named advisory editorial board member of Journal of the West (1977-80); named as consultant for Heritage of Aztlan Educational TV series.

DABNEY, William

Referee for article submitted to The Historian; panel discussion, participant in session entitled "Conflict of Interest," May 1977, video-taped for presentation on educational TV; various talks on historical subjects; judge in Daughters of American Revolution state Good Citizens contest.

ELLIS, Richard

Lectures: University of Utah, October 1977; Southern Oregon College, October 1977; Discussion of minorities in New Mexico, KOB radio, June 1977.

IKLE, Frank

Lectures: "Why Switzerland?", German Summer School, Taos, N.M., June 1977; "The Mid-East," American Association of University Women, January 1977.

KERN, Robert

Elected to the Executive Board, Southwest Labor History Conference, two-year term.

KOLCHIN, Peter

Talk on "American Slavery and Russian Serfdom: A Comparison," History Department Colloquium, Princeton University, April 28, 1977; Consultant for National Endowment for the Humanities, November-December 1977 (member of five-person panel to evaluate summer grant applications).

KRAMER, Steven

Lectures: University of Ghent, January 1977, "Belgian Socialism in an Age of Fascism"; Alliance Francaise, Albuquerque, "La Signification des elections municipales en France," April 1977; project director and participant, National Endowment for the Humanities program, "Abortion: the Issues," including public forum and TV appearances.

McALLISTER, Paul Provided advice on computer analysis for historical studies to individuals associated with University of Missouri-Columbia, summer (non-fee consultations).

McCLELLAND, Charles Referee for American Historical Review and The Historian.

NASH, Gerald Speaker, Energy Symposium, Museum of Albuquerque, February 12, 19, and 26, 1977; June 21, 1977, TV panel (Channel 5) on State government reorganization in N.M.: June 28, 1977, (Channel 5) panel on Ethics in State Government; Radio panel (KZIA) October 15, 1977, on Collective Bargaining in N.M.; Consultant, National Endowment for the Humanities; member, National Panel on Summer Seminars for College Teachers, August 1977, Washington, D.C.

PUGACH, Noel Discussed and answered questions on KOB talk show, on "The Quest for Peace in the Middle East," May 11, 1977; lectured and led discussion on the Mideast situation, Albuquerque, Community High School, November 10, 1977; panelist, SOLAS-sponsored program, "The Panama Canal Treaties," November 15, 1977; lectured, "Zionism," Hoover Jr. High School, February 1977.

RABINOWITZ, Howard Consultant, Educational Testing Service (reader, American History Advanced Placement Examination, Rider College, New Jersey, June 1977); Consultant, U.S. Army Corps of Engineers Water Resource Project; appeared on "At the Edge of the Dream: Albuquerque, N.M., 1940-1976," KNME TV, August 1977.

ROBBINS, Richard Participated in TV discussion of Carter's first 100 days in office on KNME TV, May 1977.

ROBERTSON, W. Glenn Judge, New Mexico American Legion History and Scrapbook Contest, summer, 1977; talk and demonstration on American Civil War at Valley High School, February 1977.

ROEBUCK, Janet Reviewer for the Museums and Historical Organizations Program, Division of Public Programs of the National Endowment for the Humanities, Washington, D.C.; chairperson of Campus Evaluation Committee of the Fulbright Program.

SLAUGHTER, M. Jane

Workshop Conference panelist, "La Mujer," sponsored by the New Mexico Humanities Council and the Consilio Sor Juana Ines de la Cruz, March 1977; paper presented, "Cultural Conflict in New Mexico," sponsored by New Mexico Humanities Council and the New Mexico Historical Review, May 1977; discussion leader, Student Study Group on Marxism and Feminism, October 1977; TV panelist, "The Child in Trouble," sponsored by the New Mexico Humanities Council and the League of Women Voters, KOAT TV, December 1977; discussant, University Symposium "On the Transition to Socialism," February 1977; member, Newspaper Committee, New Mexico Humanities Council.

SPIDLE, Jake

Refereed articles submitted for publication to The Historian (April 1977), New Mexico Historical Review (December 1977) and Teaching History (June 1977); talk at Sandia High School, October 1977.

8. NON-TEACHING UNIVERSITY SERVICE

BAKEWELL, Peter

Library Committee (August 1977-); History Department Curriculum Committee.

BERTHOLD, Richard

Faculty Senate Member; Student Standards and Grievances Committee.

CONNIFF, Michael

Member of Graduate Advisory Committee, Department of History.

CUTTER, Donald

Served as acting editor of New Mexico Historical Review and as member of editorial board of same; member of Departmental Curriculum Committee and Placement Committee; Dean's Promotional Review Committee for Humanities; University of New Mexico Press Committee; Library Search Committee for Special Collections Director.

DABNEY, William

Graduate Advisor, History Department; chairperson, Arts and Sciences Graduate Committee and Liaison person from this committee to Senate Committee on Graduate Programs; member of Students Standards Committee.

ELLIS, Richard

Faculty advisor, Phi Alpha Theta; Director, New Mexico Oral History Project; Book Review editor, New Mexico Historical Review; acting chairman of board of editors, New Mexico Historical Review; judge for Calvin Horn Scholarship Contest; member of search committee for head of Special Collections, Zimmerman Library; member of search committee for editor of New Mexico Historical Review; member of search committee for opening in U. S. History; member of Departmental Graduate Advisory Committee.

IKLE, Frank

Member, Research Policy Committee; chairman, Sub-committee in Interdisciplinary Research, RPC; member, Sub-committee on the Annual Research Lecture, RPC; chairman, Arts and Sciences Committee on Academic Programs; member, Selection Committee for Associate Provost for Research; chairman, Departmental Graduate Entrance Committee.

KERN, Robert

Curricula Committee.

KOLCHIN, Peter

Editor, History Department Newsletter, 1977-78; member, History Department Graduate Entrance Committee; member, History Department Salary Investigating Committee.

KRAMER, Steven

Member, University of New Mexico Senate, 1977-78; member, Senate Graduate Programs and Standards Committee, 1977-78; member, Honorary Degree Committee, 1977-78; Co-Director, The French Summer School of New Mexico.

LIEUWEN, Edwin

Spring 1977, chairman, Arts and Sciences Tenure Committee.

McALLISTER, Paul

Member of sub-committee to meet with Albuquerque Public Schools Social Studies Department heads.

McCLELLAND, Charles

Chairman, Graduate Advisory Committee of the Department of History; Graduate Advisor, Department of History; member, Retirement and Insurance Committee of the University of New Mexico; member, Arts and Sciences' Ad Hoc Committee on Individualized Majors.

NASH, Gerald D.

Editor, The Historian; chair of History Department.

PORTER, Jonathan

Curricula Committee.

PUGACH, Noel

Department of History Library Liaison member, Research Allocations Committee (University Committee).

RABINOWITZ, Howard

Member of Departmental Graduate Entrance Committee, Spring 1977.

ROBBINS, Richard

Chairman, Russian Studies Program; History Department Graduate Advisory Committee, chair: University of New Mexico Speakers Committee.

ROBERTSON, W. Glenn

Faculty Advisor to University of New Mexico Simulations Association.

ROEBUCK, Janet

Member of: Academic Freedom and Tenure Committee; Athletic Council; Faculty Club Committee on Membership; College of Education Undergraduate Curriculum Committee; Faculty and Professional Women's Association; chairperson, Departmental Search Committee; advisor for Theater Arts Department Production of Room at the Top, Summer 1977.

SKABELUND, Donald

Correlated work towards a Religious Studies Program (History, Philosophy, and Sociology Departments).

SLAUGHTER, M. Jane

University Committees and service: Women Studies Committee: Equal Employment Opportunity Committee (Spring 1977); American Studies Committee; Committee of Five; Student Standards Committee: chair, Faculty Ethics and Advisory Committee; president, Faculty and Professional Women's Association (Spring 1977); co-chair, Faculty and Professional Women's Research Colloquia, 1977-78; adviser, student chapter of the National Organization for Women; search committee for Outstanding Women Scholar, 1977; Graduate Entrance Committee, Department of History; Search Committee, New Mexico Historical Review editor.

SPIDLE, Jake

Member, University Visiting Lecturer's Committee for the Humanities and Social Sciences; member, Departmental Committees: Western Civilization Search Committee, Ad Hoc Salary Investigative Committee, and Salary Advisory Committee.

STEEN, Charlie

Undergraduate Advisor for the Department; member of the Admissions and Registration Committee.

SZASZ, Ferenc

Service on the University Press Committee.

9. PUBLIC SERVICE

CONNIFF, Michael

Talks on the Panama Canal Treaties to the Caravan Club, October 1977, and to the Philosopher's Club, November 1977.

CUTTER, Donald

Member, Board of Deacons, Immanuel Presbyterian Church: panel discussant on New Mexico Humanities Council Conflict of Interest Program; Chief judge, Calvin Horn High School Historical Essay Contest; spoke to Seekers Sunday School Class, Immanuel Presbyterian Church; spoke to Museum of Albuquerque docent training program; spoke to seminar of Archdiocese at Centro Pastoral, Albuquerque; spoke to Albuquerque Public School in-service bilingual education program, spoke twice at Goddard High School, Roswell.

DABNEY, William

Member, Liturgical Commission of Episcopal Diocese of the Rio Grande, and quite a few other church-related activities.

IKLE, Frank

Member, New Mexico Humanities Council; Vice-president, Swiss American Society of New Mexico.

KRAMER, Steven

Board of Directors, Alliance Francaise; co-chairman, Colloquium on Advanced Societies.

McALLISTER, Paul

Co-sponsor school picnic (Rock Bridge Elementary School, Columbia, Missouri).

McCLELLAND, Charles

Contributor to reviews to New Mexico Independent.

PUGACH, Noel

Member, Board of Directors, Jewish Community Council; member, Board of Directors, Experiment in Jewish Learning, member, Israel Sub-committee, JCCA; chairman, Chavura Hebrew School Committee.

SKABELUND, Donald

Address before The Sandians, a women's club; several talks before Latter Day Saints Faculty Seminar; appearance on KNME-TV, "UNM Voices."

SPIDLE, Jake

Advisor/Leader, College Ministry Group at First Presbyterian Church.

10. PERSONAL INFORMATION

McALLISTER, Paul

Married August 7, 1977.

REPORT OF THE NEW MEXICO HISTORICAL REVIEW

July 1, 1977 - June 30, 1978

Dr. Donald C. Cutter, Acting Editor

During the year 1977-1978, moving into the fifty-third year of its issuance, the NEW MEXICO HISTORICAL REVIEW published sixteen scholarly articles on a broad range of topics appropriate to the REVIEW's coverage and purposes. Authors represented established scholars from New Mexico and from outside the state, including the Universities of Nevada, Oregon, Nebraska, North Texas State, Indiana, and Alberta, as well as from superior graduate students.

Dr. Donald C. Cutter continued in the position of Acting Editor, with James T. Stensvaag as Assistant Editor, Dr. Richard N. Ellis as Book Review Editor and Nancy M. Brown as Staff Secretary. Editorial Assistants were Glenn R. Schwegmann and Carol L. Wilson. Among the Editorial Board, Dr. Donald W. Whisenhunt has moved from Eastern New Mexico State to Texas Eastern University. This position has been filled by Mrs. Alice King of Stanley, New Mexico, an enthusiastic advocate of our state's history.

A positive effort was made to amplify the range of reviewers and manuscript entries with great success. Reviews and articles show participation by a wide group of professional historians who have provided quality material and whose association with the REVIEW has brought definite benefits.

-2-

The Acting Editor through the course in Editing Historical Journals has provided professional growth and training for students of the history program and also assistance to the REVIEW in preliminary evaluation of articles and in various phases of editing. The Assistant Editor taught classes in the new copyright laws and editing mechanics. The exchange program with Zimmerman Library has continued to grow and over a hundred copies of the journal offset rising subscription costs faced by the Serials Department.

The REVIEW participated with the Museum of New Mexico in sponsoring the annual New Mexico Historical Society Conference. It was held jointly with the New Mexico Council of Social Studies Teachers' Conference and included presentations by professional historians, public school teachers, and other interested parties. Dr. Cutter and Dr. Ellis conducted a seminar on historical writing and preparation of essays for the Social Studies teachers in connection with the Calvin Horn New Mexico Historical Essay Contest. Other seminars were given by Dr. Cutter and Dr. Ellis for Albuquerque teachers and students interested in the contest. The REVIEW staff helped judge and award scholarships to the winners. Winning essays are being considered for publication in an upcoming issue of the REVIEW.

The Acting Editor and staff have conscientiously promoted the journal through a series of speeches and sales efforts through the year. Dr. Cutter has made numerous historical talks gaining many new readers for the REVIEW. TV and newspaper commentaries have featured Dr. Cutter and the REVIEW. The Assistant Editor featured the journal at the Western History Association Conference in Portland and the Western Social Science Conference in Denver; he also participated in a session for the WSSA. He has been primarily engaged in finishing his doctoral studies.

Carol Wilson, Editorial Assistant, displayed the REVIEW at the Phi Alpha Theta Regional Conference and delivered a paper there. She also assisted with sales at the New Mexico State Teacher's Conference. The entire staff in cooperation with Phi Alpha Theta, manned a booth in the Spanish Village during the New Mexico State Fair. Through membership and participation in the Albuquerque Historical Society, the Albuquerque Archaeological Society, the New Mexico Historical Society, the Albuquerque Museum Foundation, and other groups, the Secretary, Nancy Brown, and Editorial Assistant Glenn Schwegmann, have found many opportunities to promote the state's history and the REVIEW among a wide range of activities. As a result of their actions, the REVIEW received high visibility at the Annual Pecos and Gran Quivira Conferences, and the state meetings of the New Mexico Historical Society and Archaeological Society. Dr. Cutter addressed a session of the New Mexico Council of Social Studies Teachers; with

the REVIEW particularly being featured. He and Mr. Calvin Horn lectured on the History of Albuquerque at the Albuquerque Museum. Historic slides for their talks were prepared by Glenn Schwegmann. The REVIEW was available and drew much interest at the teacher's conference, the museum lecture, and will be present at a series of summer festivals in downtown Albuquerque. The historic slides gathered by Dr. Cutter's students and Glenn Schwegmann promise to be a valuable part of historic programs being made available by the REVIEW to area groups.

The goal of all activities has been the same: to gain a higher profile for the NEW MEXICO HISTORICAL REVIEW, while maintaining the scholarly reputation for which this journal has traditionally been noted. Success can be judged by the steadily lengthening subscription list, and from the diversity of activities in which the REVIEW's staff have been asked to participate.

Since Professor-Editor Cutter's activities are detailed in the History Department's annual report, they are only summarized here:

In his capacity as historian and acting editor of the REVIEW Professor Cutter carried out the following professional activities.

1. Named to Editorial Advisory Board of THE JOURNAL of the WEST.
2. Authored articles in THE AMERICAN WEST, JOURNAL of SAN DIEGO HISTORY, THE JOURNAL of THE WEST, DOCENCIA, and the DICTIONARY OF CANADIAN BIOGRAPHY.
3. Spoke at the following academic institutions: Central State University, Oklahoma (2), Bethany Nazarene College, Cameron University, University of Texas, El Paso and the University of Arizona.
4. Delivered papers or major talks at: Oakland Museum, the Smithsonian Institution (2), Banquet of the Pacific Northwest History Conference, New Mexico History Conference, Banquet of Colorado History Group.
5. Interviewed on KMXN-TV, KNME-TV, KZIA radio, and taped for UNM Sociology Department.
6. Spoke to various service groups as follows:
The Graduate Club, Oklahoma City Civil War Round Table, New Mexico Council of the Social Studies, Goddard High School (2), Chaves County Historical Society, St. Andrew's Presbyterian Church, Horn Essay Contest Luncheon and Seminars, Immanuel Presbyterian Church, New Mexico Mensa, Museum of Albuquerque, Rotary Club of Bernalillo, Sons of the American Revolution, Albuquerque, Regional Conference of the Alianza Federal.
7. Attended Western History Association Conference, Portland and Spring Council meeting of same in Denver.

July 1, 1977 - June 30, 1978

Garland D. Bills, Chairman

I. General Information

A. Highlights of the 1977-78 Academic Year

1. Faculty and Administration.

In its fifth year of operation the Department continued with a budgeted faculty of 2.83 FTE: Assistant Professor Alan Hudson-Edwards (fulltime), Associate Professor Garland D. Bills (.50 Linguistics, .50 Modern and Classical Languages), Associate Professor John W. Oller, Jr. (fulltime), and Professor Bernard Spolsky (.33 Linguistics, .67 Graduate Studies). In addition, Robert W. Young (director of the Navajo Dictionary Project) held a non-probationary non-salaried appointment as Professor of Navajo Linguistics, and Rodney W. Young (director of the Testing Division) held a similar appointment as Assistant Professor of Linguistics. Assistant Professor Larry Gorbet (Anthropology) and Professor Vera John-Steiner (Educational Foundations) held non-budgeted joint appointments in Linguistics.

The Voting Faculty of the Department for 1977-78 included the preceding persons and Professors Fred Chreist (Communicative Disorders), Robert White (Secondary and Adult Teacher Education), and Miles Zintz (Elementary Education); Associate Professors Dean Brodkey (Elementary Education) and Roy Pickett (English); and Assistant Professors Carol Conrad (Psychology) and Leroy Ortiz (Elementary Education).

All members of the Voting Faculty contributed importantly to the administrative functioning of the Department. Most served with dedication on one of the three standing committees:

Policy Committee: Gorbet, Oller, Pickett, Spolsky, Bills.

Graduate Committee: Brodkey, Chreist, John-Steiner, White, Bills.

M.A. Examination Committee: Conrad, Hudson-Edwards, Rodney Young.

In addition, Hudson-Edwards served as undergraduate advisor, Bills as graduate advisor, Brodkey as library representative, and Oller as faculty advisor to the Duke City Linguistics Circle.

The Department's functioning was also assisted by the still broader interdisciplinary input of thirteen Associated Faculty: John Bergen (Modern and Classical Languages), Philip Bock (Anthropology), Victor Bolie (Electrical Engineering and Computer Science), Dolores Butt (Communicative Disorders), Matthieu Casalis (Philosophy), Jean Civikly (Speech Communication), Rosa Fernández (Secondary and Adult Teacher Education; added in 1977-78), Marlis Mann (Elementary Education), Charlene McDermott (Philosophy), Bruce Porch (Neurology/Psychology/Communicative Disorders), Scott Rushforth (Anthropology), Ellen Spolsky (English), and Marta Weigle (Anthropology).

2. Faculty Research and Service.

The Department continued to house two major sponsored research projects. Professor Hudson-Edwards' Voting Rights Project supported by a \$100,000 grant from the Federal Election Commission will continue until August. The \$120,000 in NEH support for Professor Robert Young's Navajo Dictionary Project was concluded last November, though he continues the preparation of the dictionary for publication by UNM Press.

During the 1977 Summer Session the Department housed fourteen college teachers who participated in Professor Spolsky's \$40,000 NEH-sponsored seminar on the social and individual aspects of bilingualism.

Exceptional service to professional organizations by Voting Faculty during the past year included: Professor Spolsky, president of the international TESOL organization and Secretary-Treasurer of the American Association of Applied Linguists; Professor Oller, executive committee of the international TESOL organization; Professor Bills, president of the Linguistic Association of the Southwest; and Professor White, president of the New Mexico TESOL association.

3. Students.

At the undergraduate level, an accounting of majors and minors remains as nebulous as ever. There were approximately ten declarations of an intended major in Linguistics for 1977-78. Graduating this spring in the College of Arts and Sciences were apparently no majors and three minors in Linguistics.

At the graduate level, in the second year of operation of the M.A. in Linguistics, there were eight students officially admitted and enrolled in classes. Two of these completed all requirements for the M.A. this spring; one (Karin Goldstein) plans to return to a position teaching English and Spanish at the secondary level in the Albuquerque Public Schools, and the other (Allison Hudson-Edwards) intends to continue as a language skills instructor at the University of Albuquerque while pursuing further graduate study in speech pathology at UNM.

The Department's contribution to M.A. and Ph.D. programs in other units remained high in 1977-78. Among those completing their degrees with an emphasis in linguistics were one M.A. in Anthropology (James Hamilton, who will enter the doctoral program in linguistics at the University of Texas), one M.A. in Philosophy (James Cranfill, who will continue his studies at UNM), and one Ph.D. in Educational Foundations (Fairlee Carroll, who has accepted a teaching position in ESL at Northern Arizona University).

One M.A. candidate in Linguistics (Tim Analla) held a Title VII Bilingual Education Fellowship in 1977-78.

Nan Elsasser, an Educational Foundations Ph.D. candidate emphasizing linguistics, has been awarded a Fulbright-Hays junior lectureship for 1978-79 at the College of the Bahamas, Nassau.

4. Lectures and Visitors.

The Duke City Linguistics Circle, a student organization advised this year by Professor Oller, continued to assist the Department in arranging and promoting varied linguistics activities, including ten lectures on diverse aspects of the language sciences. These lectures were given by three outside speakers:

Charles-James N. Bailey (Technische Universitat Berlin), "The Role of Language Mixture in the New Historical Linguistics"
 Peter Strevens (Wolfson College, Cambridge), "Notional/Functional/Communicative Progress and Confusion in Syllabus Design"
 William Wonderly (American Bible Society), "Some Principles and Problems in Bible Translation"

by four UNM faculty members:

Carol Conrad (Psychology), "Integration of Semantic Information Across Languages in Spanish/English and Navajo/English Bilinguals"
 Larry Gorbet (Anthropology/Linguistics), "Primate See, Primate Do: Thoughts on the Pragmatics and Phylogeny of Quotation"
 John Oller (Linguistics), "How Much of the Variance in IQ Tests Is Genetically Determined?"
 Scott Rushforth (Anthropology), "Aspects of Communication Among the Bear Lake Indians: Speaking to 'Relatives through Marriage'"

and by three UNM graduate students:

Fairlee Carroll (Educational Foundations), "Cerebral Dominance for Language: A Dichotic Listening Study for Navajo-English Bilinguals"
 James Cranfill (Philosophy), "Remarks on Logic and Language"
 Hooshang Mehrnoosh (Secondary and Adult Teacher Education), "Teaching English as a Foreign Language in Iran"

The Department also co-sponsored (in cooperation with several other units) two major lectures on semiotics this spring:

Thomas Sebeok (Indiana University), "Clever Animals and Dumbfounded People: A Semiotic Analysis"
 Jonathan Culler (Cornell University), "The Semiotics of Literature"

The Department also profited from on-campus activities of the New Mexico TESOL Association, including a talk in "New Directions in TESOL" by James Alatis (Georgetown University), whose visit was arranged by Professor White.

6. Facilities.

Minor renovations now being made in the Department's main office will add a few feet of badly needed space and finally provide faculty mailboxes. The renovation will also provide more controlled access to the Department's library room which (though still cramped with remnants of the Navajo Reading Study) has developed over the past year into a widely utilized resource for linguistics' students and faculty. The creation of the library room and the main office renovations have alleviated some of the space needs. However, the Department still has to utilize four offices in Marron Hall for research activities.

7. Degree Programs.

The requirements for the B.A. major and minor were slightly modified this year. Ling 470 (History of Linguistics) was deleted as a requirement for both the major and the minor. Introductory courses in sociolinguistics (351) and psycholinguistics (367 or 362) were added as requirements for the major. Only courses numbered above 200 will now be counted for the major or minor.

The Department also decided this year to limit to a maximum of twelve the number of active candidates in the M.A. program.

8. Intensive English Institute.

UNM's Intensive English Institute, under the direction of Professor Brodkey and Professor Gerald Slavin, has been established and will begin offering instruction in English for foreign students next fall. Recognizing the importance and relevance to linguistics of this Institute, the Department will cooperate with the Institute in the appointment of instructors.

B. Plans and Recommendations for the Future

1. Doctoral Program

Over the past year the Department played an active role in the development of a proposal for an Educational Linguistics concentration within the COE doctoral program. This innovative interdisciplinary concentration represents a crucial stabilization and strengthening of one of the Department's central goals in doctoral training. The widely applauded proposal has not yet been approved. Achieving final approval of the proposal and initiating the program remain a major planning objective for the near future.

2. 1980 Linguistic Institute.

In December the executive committee of the Linguistic Society of America accepted UNM's proposal to host the Society's 50th annual Linguistic Institute during the 1980 Summer Session. The planning committee under the direction of Professor Bills will now devote its energies over the next two years to working out the details of this major activity.

C. Appointments to Staff

Effective 1977-78, Professor Gorbet (Anthropology) was given a non-budgetary joint appointment in Linguistics without presumption of tenure, and Professor Rodney Young (Testing Division) was awarded a nonbudgetary, nonprobationary appointment in Linguistics.

Professor Ortiz (Elementary Education) was appointed to the Voting Faculty effective 1977-78, replacing Professor Macias.

D. Separations from Staff.

Upon the termination of his funded research position in November, Adjunct Professor Robert Young officially retired from the university. He will, however, continue his close affiliation with the Department as Professor Emeritus of Navajo Linguistics.

Professor Chreist (Communicative Disorders), a founding member of the Voting Faculty, retired from the university this spring.

II. Faculty Information

The following provides information on the 1977-78 activities of only those members of the Voting Faculty who hold full or joint appointments within the Department. Information is current only to December 31, 1977.

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

John W. Oller: Visiting Professor, Concordia College,
Montreal, Summer 1977.

4. Publications:

Garland D. Bills:

"Current Research on the Language(s) of U.S. Hispanos." Hispania, 1977, vol. 60, pp. 347-358. Co-authors: J. Craddock and R. Teschner.

"Vernacular Chicano English: Dialect or Interference?" Journal of the Linguistic Association of the Southwest, 1977, vol. 2, pp. 30-36.

Larry P. Gorbet:

"Headless Relatives in the Southwest: Are They Related?" K. Whistler et al. (eds.), Proceedings of the Third Annual Meeting of the Berkeley Linguistics Society (Berkeley: Berkeley Linguistics Society, 1977), pp. 270-278.

Vera John-Steiner:

"Psychological Perspectives on Bilingual Education." B. Spolsky and R. Cooper (eds.), Frontiers of Bilingual Education (Rowley, Mass.: Newbury House, 1977), pp. 175-191. Co-author: E. Souberman.

"Perspectives on Bilingual Education." B. Spodek and H. Walberg (eds.), Early Childhood Education (McCutchan Publ., 1977), pp. 65-79. Co-author: E. Souberman.

"An Interactionist Approach to Advancing Literacy." Harvard Educational Review, 1977, pp. 355-369. Co-author: N. Eliaasser.

John W. Oller:

"Attitude Variables in Second Language Learning." M. Burt et al. (eds.), Viewpoints on English as a Second Language (New York: Regents, 1977), pp. 172-184.

"On the Relation Between Syntax, Semantics, and Pragmatics." A. Makkai et al. (eds.), Linguistics at the Crossroads (Lake Bluff, Ill.: Jupiter, 1977).

"Attitudes and Attained Proficiency in ESL: A Sociolinguistic Study of Native Speakers of Chinese in the United States."

"Are Cloze Items Sensitive to Constraints Across Sentences?" Language Learning, 1977, vol. 27, pp. 63-73. Co-authors: T. Chihara, K. Weaver, and M. Chavez-Oller.

- "Attitudes and Attained Proficiency in ESL: A Sociolinguistic Study of Mexican Americans in the Southwest." TESOL Quarterly, 1977, vol. 11, pp. 173-183. Co-authors: L. Baca and F. Vigil.
- "How Important is Language Proficiency to IQ and Other Educational Tests?" J. Redden (ed.), Proceedings of the First International Conference on Frontiers in Language Proficiency and Dominance Testing (Carbondale: Southern Illinois University, Department of Linguistics, 1977), pp. 1-11.

Bernard Spolsky:

- Frontiers of Bilingual Education. Rowley, Mass.: Newbury House, 1977. Co-editor: R. Cooper.
- "Language Testing: Art or Science?" G. Nickel (ed.), Proceedings of the Fourth International Congress of Applied Linguistics (Stuttgart: Hochschul-Verlag, 1977), vol. 3, pp. 7-28.
- "Toward the Measurement of Functional Proficiency: Contextualization of the Noise Test." TESOL Quarterly, 1977, vol. 11, pp. 51-57. Co-authors: S. Gales and H. Gradman.
- "The Establishment of Language Education Policy in Multilingual Societies." In Frontiers of Bilingual Education (above), pp. 1-21.
- "Bilingualism in the Six-Year-Old Navajo Child." W. Mackey and T. Andersson (eds.), Bilingualism in Early Childhood (Rowley, Mass.: Newbury House, 1977), pp. 167-173.

Rodney W. Young:

- "Novel Situation Testing." Contemporary Education, 1977, vol. 48, no. 2, pp. 76-81.

5. Other Research Projects or Creative Work.

Alan Hudson-Edwards:

- Voting Rights Project, Federal Election Commission, \$103,058, Oct. 1976-Aug. 1978.

Vera John-Steiner

- Gender-Linked University Teaching Styles, NM Research Allocations Committee.

Bernard Spolsky:

- Summer Seminar for College Teachers on Social and Individual Aspects of Bilingualism, National Endowment for the Humanities, \$40,302, Summer 1977.

Rodney W. Young:

- Second Annual Report on Undergraduate Assessment Program.
Retention at the University of New Mexico: Two Studies.

6. Activities in Learned and Professional Societies.

Garland D. Bills:

"The Role of Theory in Doing It." Paper (presidential address) presented at annual meeting of Linguistic Association of the Southwest, Baton Rouge, November 1977.

President and chair of Program Committee, Linguistic Association of the Southwest, 1977.

Session chair, Southwest Areal Languages and Linguistics Workshop VI, Long Beach, April 1977.

Discussant, panel on linguistic theory, Border Linguistics Circle meeting, Las Cruces, April 1977.

Also attended: summer meeting of Linguistic Society of America, Honolulu, August 1977; annual meeting of Linguistic Society of America, Chicago, December 1977.

Larry P. Gorbet:

"Headless Relatives in the Southwest: Are They Related?" Paper presented at annual meeting of Berkeley Linguistics Society, Berkeley, February 1977.

Invited participant, Third Yuman and Hokan Languages Workshop, Salt Lake City, June 1977.

Alan Hudson-Edwards:

"Language and Public Policy: The Case of the 1975 Voting Rights Act Amendments." Paper presented at annual meeting of Linguistic Association of the Southwest, Baton Rouge, November 1977.

Vera John-Steiner:

"Women's Images and Associations." Paper presented at meeting of Rocky Mountain Psychological Association, Albuquerque, May 1977. Also chair of two sessions.

Speaker, NMAEYC, Albuquerque, March 1977.

Seminar leader, Bank Street College of Education, New York City, November 1977.

Study group speaker, University of North Dakota, September 1977.

John W. Oller:

"Pragmatic Expectancy Grammars--toward Psychological Realities." Invited lecture, Purdue University, January 1977.

"Validity Problems in Self-Reported Data: Language Proficiency, Attitudes and Personality." Paper presented at Los Angeles Language Research Forum, UCLA, February 1977. With K. Perkins.

"Research on the Acquisition of Language Proficiency." Invited lecture, University of Illinois, Champaign-Urbana, March 1977.

"How Important Is Language Proficiency to IQ and Other Educational Tests?" Keynote address, First International Conference on Frontiers in Language Proficiency and Dominance Testing, Southern Illinois University, Carbondale, April 1977.

"Cloze Procedure in Second Language Research: An Overview." Invited lecture at annual TESOL convention, Miami, April 1977.

"Four Clusters of Learner Variables in Relation to Attainment in ESL." Paper presented at annual TESOL convention, Miami, April 1977. With K. Perkins and M. Murakami.

"Are Cloze Items Sensitive to Constraints Across Sentences? A Systematic Item Analysis and Error Analysis." Paper presented at annual TESOL convention, Miami, April 1977.

"Pragmatic Classroom Testing." Invited lectures at annual SPEAQ convention, Montreal, May 1977.

"Affective Variables in Second Language Acquisition: How Important Are They?" Paper presented at annual NAFSA convention, New Orleans, May 1977.

"Formative Assessment of Learner Progress in the Classroom." Invited lectures at Defense Language Institute, Lackland Air Force Base, San Antonio, August 1977.

"Can Language Proficiency Be Divided into Clearly Separable Components?" Invited paper at annual ACTFL convention, San Francisco, November 1977.

"Formative Assessment of Learner Progress: New Trends in Testing." Invited paper at annual ACTFL convention, San Francisco, November 1977.

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Bernard Spolsky:

"Dimensions for the Description and Analysis of U.S. Bilingual Education Programs." Paper presented at NIE Conference on Dimensions of Bilingual Programs, Washington, D.C., February 1977.

"The Comparative Study of First and Second Language Acquisition." Invited paper presented at annual University of Wisconsin-Milwaukee Linguistics Symposium on Language Acquisition, March 1977.

"Management of Graduate Admissions, Aid and Recruitment: the Pros and Cons of Centralization." Paper presented at session on Management of Graduate Admissions, Aid, and Recruitment, Admissions Officer, Houston, April 1977.

"Separatism, Cultural Pluralism and Bilingual Education." Invited lecture at Four Corners State Conference, Santa Fe, September 1977.

"Functional Literacy and the Linguistic Minority Student." Keynote address at annual conference of Florida Association of TESOL, Coral Gables, November 1977.

"Now that We're 'of age'---What's the Plan for Tomorrow?" Keynote address at National Elementary Education Association convention, San Francisco, December 1977.

Member, Editorial Board, Studies in Second Language Acquisition. President-elect, Teachers of English to Speakers of Other Languages. Secretary-Treasurer, American Association of Applied Linguists.

Rodney W. Young:

"A Theoretic Ordering of Semantic Categories in English, Spanish and Navajo." Paper presented at Southwest Areal Languages and Linguistics Workshop VI, Long Beach, April 1977.

"A Comparison of the Hierarchy of Items on a Cloze Test for Adult Native and Non-Native Speakers of English." Paper presented at annual meeting of Linguistic Association of the Southwest, Baton Rouge, November 1977.

7. Other Professional Activities

Garland D. Bills: Associate Editor, Journal of the Linguistic Association of the Southwest.

Vera John-Steiner: Speaker, New Mexico Art Association Workshop, Santa Fe, September 1977. NIE-CEMREL Conference on Arts and Cognition, July 1977.

John W. Oller: Consultant on adult education and teaching of English as a second language, St. Louis City Schools.

Bernard Spolsky: Consultant on linguistics program, New Mexico State University, April 1977.
Consultant for the Ford Foundation on the Center for Applied Linguistics.

Rodney W. Young: Consultant, English Language Skills Laboratory, West Virginia State College.

8. Non-teaching University Service.

Garland D. Bills: Chairman, Linguistics.
Supervisor, Native American languages program, Modern and Classical Languages.

Larry P. Gorbet: Policy Committee, Linguistics.
Graduate Committee, Anthropology.

Alan Hudson-Edwards: Graduate Committee, College of Arts and Sciences.
Undergraduate Advisor, Linguistics.
M.A. Examination Committee, Linguistics.

Vera John-Steiner: Multicultural Committee, College of Education.
Honors Council
Tenure and Promotion Advisory Committee, College of Education.
Graduate Committee, Linguistics.

Bernard Spolsky: Dean, Graduate Studies.
Policy Committee, Linguistics.

Rodney W. Young: Director, Testing Division.
Screening Committee, Elementary Education.
M.A. Examination Committee, Linguistics.
Information Systems Advisory Group.
Student Records Committee.
Ad hoc committee on assessing student needs.

9. Public Service.

Alan Hudson-Edwards: Volunteer teacher of Irish language, Irish-American Society of Albuquerque.

Vera John-Steiner: Occasional consultant, Santa Fe Women's Health Center.

John W. Oller: Participated in revision of constitution of Grace Community Church, Albuquerque.

THE REPORT OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS

JULY 1, 1977 - JUNE 30, 1978

RICHARD J. GRIEGO - CHAIRMAN

During the academic year 1977-1978 the Department provided instruction to 10,922 students totalling 35,346 credit hours. This is an increase of 342 students and 1,172 credit hours compared to the Academic year 1976-1977.

I. GENERAL DEPARTMENT INFORMATION.

A. SIGNIFICANT ACHIEVEMENTS.

Departmental faculty members were active in organizing conferences and meetings this past academic year. Richard Griego and David Sanchez were co-directors of a \$12,000 NSF-funded Conference on Deterministic Differential Equations and Stochastic Processes Models in Biology that was held at the D. H. Lawrence Ranch near Taos in August. Several faculty members and students joined the more than sixty biologists and mathematicians who participated in this highly successful week-long conference. The conference was sponsored by the Rocky Mountain Mathematics Consortium and the proceedings of the conference will constitute a special number of the Rocky Mountain Mathematics Journal. A very successful regional meeting of the Society for Industrial and Applied Mathematics was organized by Cleve Moler together with Mel Scott of Sandia Laboratories. The three-day meeting was held at the Hilton Inn in Albuquerque in November, and many members of the Department attended the activities of the meeting.

Our Department gained national recognition when Abe Hillman was named Editor of the Problems Section of the American Mathematical Monthly. Dr. Hillman's editorship follows his outstanding tenure as Director of the National Putnam Mathematics Competition. These activities of Dr. Hillman have brought considerable prestige and exposure to our Department.

A most important development was the approval by the Department of a newly revised graduate program. The Graduate Committee under the capable leadership of Cleve Moler formulated the new academic program after a year's worth of work. All faculty members were given ample opportunity to express their views and the new program has the unanimous support of the Department. The main features of the new graduate program provide for semi-independent, semi-autonomous programs in three subject areas: applied mathematics, pure mathematics, and applied statistics. Emphasis has been given to establishing serious professional degrees at the Master's level so that a Master's degree will not be only a consolation prize for those who do not obtain a Ph.D. Our Ph.D. programs are designed to continue the bases established at the Master's level. Each of the three graduate programs will have its own Director of Graduate Studies. A feature of the programs in Applied Mathematics and Applied Statistics is a five credit hour practicum that students will be required to complete. The practicum will be an interdisciplinary project that could be accomplished in a variety of ways - summer employment in industry, academic year work with another department on campus, etc. An advisory board of mathematicians working in industry and governmental laboratories has been formed to aid us in establishing practica for our students and in giving us advice on our new program. The low number of graduate students

in our Department in recent years has been a source of concern. It is hoped that the new graduate curricula will attract large numbers of new graduate students that we so badly need in order to maintain a lively, viable graduate program.

The Department received support from several sources for the purpose of improving underrepresented minority group participation in the sciences and mathematics. The Department administers the NIH-funded, \$86,000 per year Minority Access to Research Careers (M.A.R.C.) Program. Dr. Griego is project director of the Program and four other faculty members are faculty participants: Drs. Bourgin (visitor) and Sanchez of Mathematics, Dr. Taylor of Biology, and Dr. Harpending of Anthropology. Nine students participated in this undergraduate research training program this first year. Funding for the M.A.R.C. Program is slated for five years, subject to renewals on a yearly basis.

Dr. Griego was director of a \$50,000 planning grant to attract to the University of New Mexico a \$2.8 million NSF grant for a Resource Center for Science and Engineering. This Center would establish a regional program to stimulate participation of minority and low-income groups in the sciences and engineering. At this writing, UNM is one of three finalists for the Resource Center grant.

The Department has received three graduate fellowships for minority or women students from NSF as part of a Title IX program. These fellowships will begin in the Fall of 1978 and last for three years.

Dr. Griego this last academic year supervised three minority students (one undergraduate, two graduate) on research projects as part of the Minority Biomedical Support Program.

Finally, the Department has participated in offering summer courses especially for Native American teacher trainees under the auspices of a College of Education Program. Mike Bevacqua taught Math 109 at Abiquiu last summer and he is teaching the same course this summer on campus for this program.

An effort to reorganize Math 180-181, Calculus for the Social and Biological Sciences, was initiated this year. Dr. Griego taught a special section of Math 180 during Semester II that was restricted to life science majors. It is expected to develop a calculus course for life science majors and a separate one for social science and business majors. Dr. Sanchez also taught a special course-seminar in biological mathematics that should aid in the development in a post-calculus course in mathematical methods for biology. Both of these courses were financed by release time provided by the M.A.R.C. Program as part of the Program's curricular development projects.

There have been two very serious developments regarding sabbaticals recently. The first is that, according to a Regent's policy, our department will be restricted to four sabbatical leaves during any one semester. For a department our size, it occurs that as many as six persons become eligible for a full sabbatical during certain years, and this is without counting those who may wish to take a half-sabbatical during a given semester. This restriction strikes the Department as arbitrary and lacking in good academic sense. The number of people wishing to take some sort of sabbatical leave may fluctuate from zero to eight, but the average number of sabbaticals has been somewhat less than three full-time sabbaticals in recent years.

Another development regarding sabbaticals has been the loss by the Department of that portion of a faculty member's salary that is not paid to the faculty member during his/her sabbatical leave. For example, when a faculty member goes on a full sabbatical leave, he receives $2/3$ of his salary. It has been the policy in recent years that the remaining $1/3$ of the salary was remanded to the Department. This money was usually used to hire visiting faculty to replace in part the person on sabbatical leave. According to a new policy, departments can no longer count on this money. It may be that a department can eventually recover an unspecified portion of these funds, but they are not to be counted on in advance. This makes planning for visiting professors practically impossible, since one needs to make arrangements with visitors well in advance of their visits. Under the current policy, it will be difficult to support visitors. This will have a very deleterious effect on the vitality of the vitality of the department. Visitors bring new life and ideas into the Department if only for a short period. We very much need the input of visitors. It is hoped that something can be done to change the present policy.

There was concern from the central Administration (and within the Department too!) about the large class sizes in mathematics courses, especially at the more elementary level. A corollary concern has to do with the relatively low teaching loads in the Department in comparison to other departments. As a result, the Administration allocated a new tenure-track position at the beginning Assistant Professor level provided the Department utilizes this position to 'significantly' reduce the sizes of classes. This position will be filled for the 1979-80 academic year.

Also, the Department this year created the new Committee on Teaching Loads that is charged with establishing policies and procedures for determining the teaching load of faculty members. The committee also implements these policies and procedures in specific cases in consultation with the Chairperson. Indeed, on the basis of deliberations so far, the teaching loads of five faculty members who were deemed as insufficiently productive in research have been raised to 9-10 load units per semester (as opposed to 6-7 load units for those active in research).

The second three year contract for Moshe Shaked was denied by the Department and he will be leaving for a tenure track position at the University of Indiana.

Stanly Steinberg was granted tenure.

Archie Gibson was promoted to Full Professor.

The Department had four visitors this year. They were: Thomas McCoy of Michigan State University; Richard Bourgin, Semester I and II; Adrian Bondy of the University of Waterloo; and Bernardo Wolf of IMASS of the National University of Mexico - Semester II only.

David Sanchez joined our staff as a Full Professor.

The Department colloquium series featured 28 speakers this year. Speakers came from such U.S. schools as the Universities of California, Colorado, Michigan, Pittsburgh, and Texas, and the State University of New York. Foreign speakers were from Australia (University of Sidney), Canada (Universities of Victoria and Waterloo), Italy (University of Bologna), Hungary (Academy of Sciences), Mexico (IMASS), and Poland (Silesian University). Other speakers came from industry (Sandia Laboratories, Tektronix Inc.)

Enrollment figures for Graduate Students are listed for the past ten years:

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	57	Full time students,	46 part time students.
1968-69	55	Full time students,	37 part time students.

Enrollment for Undergraduate Math Majors for past seven years.

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
1971-72	115	Undergraduate Mathematics Majors

GRADUATION	1977-78	1976-77	1975-76	1974-75	1973-74	1972-73
Ph.D.	6	6	5	5	5	9
Master's	5	7	5	4	8	19
B.S.	20	32	30	35	24	36

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

The main future priority of the Department is the rejuvenation of its graduate program by means of the recent changes in the graduate curricula. Elements of the new program that will need support are as follows:

(i) Practica: means by which practica can be organized for graduate students need to be established; hopefully, some practica will be accomplished through summer jobs in industrial or governmental laboratory settings. This will take organization and commitment on the parts of the administrations of both parties--university and industry. The University

Administration could play a vital role in arranging agreements with the appropriate levels of the administrations of the cooperating laboratories. For example, an incentive system for laboratory employees will have to be established whereby they will gain certain benefits, or at least not be adversely affected, if they agree to supervise students in their practica. Also, intrauniversity practica will need to be established with other university departments.

(ii) Adjunct faculty: It is hoped that a number of adjunct faculty can be associated with the Department on a regular basis. These adjunct faculty would be scientists from other institutions that would perform any of a variety of functions for the Department: present colloquia and/or seminars, teach classes, supervise practica, serve on dissertation committees, advise on curricular development, interact with faculty and students, etc. These scientists could, for example, be senior retired faculty from other universities, staff members in industry or governmental employees. Leave arrangements for those still actively employed would have to be organized.

Adjunct faculty members could play a vital enrichment role for both students and regular faculty.

Financial support for adjunct faculty positions would have to be secured--perhaps in part from outside sources, and in part from internal sources.

(iii) Advisory committee: A committee of staff members of Sandia Laboratory and the Los Alamos Scientific Laboratories has been formed to offer the Department advice on the development of its graduate program. The Committee has met once with members of the Department. While out-of-town Committee members financed their own trips to Albuquerque for

the first meeting, it would be appropriate to defray, at least in part, Committee members' expenses. It is hoped that the Committee will be expanded in the future.

(iv) Graduate assistants and teaching assistants: The expected increase in graduate student enrollment in mathematics/statistics due to the reorganized graduate program will necessitate an increase in support for additional G.A.'s and T.A.'s. G.A's could assume new roles in aiding in practica, statistical consulting, and the like.

(v) Faculty: An additional regular tenure-track faculty position has been allocated to the Department for the 1978-79 academic year as alluded to in a previous section. However, there is a string attached to the position. According to instructions from the Administration, this position must be used to aid in significantly reducing the size of the many large (more than 60 students) classes taught in the Department. This is an unprecedented restriction for a tenure-track position; however, the Department will comply with the announced policy. It is expected that the recently organized Committee on Teaching Loads will be able to institute policies whereby the teaching loads of some currently marginally research-productive faculty will be increased, with the effect that class sizes can be decreased (if adequate classroom space can be found!). The Administration is interested in the final effect of the total departmental effort as regards the reduction of class sizes, so that if the new teaching load assignment system is effective, then the string that is attached to the newly allocated position may be able to be removed and that position turned into a regular research position. This would be to the Department's benefit, and ultimately to our students' benefit, since there are gaps in some research areas that badly need to be covered.

If the newly organized graduate program proves to be successful to the point that graduate student enrollment is significantly increased, then there will undoubtedly be a need for additional regular faculty. That is our goal.

It is uncertain what is going to happen to student demand on the undergraduate level. Demand at the remedial and elementary level could decrease dramatically if a community college is established in Albuquerque. Nevertheless, it is certain that, in any case, considerable effort will need to be expended at the remedial-elementary level, irrespective of the future of the proposed community college. If there is indeed a significant loss of less prepared students to a community college, then the Department may not need all of the three current Master's degree level instructors.

It is anticipated that the increase in graduate level activity will have a positive effect on the number of undergraduate majors in mathematics/statistics. This increase at the undergraduate level would be welcomed by the Department, since most certainly a significant number of these majors would then funnel into the graduate program.

The efforts of the Department to diversify its offerings at the undergraduate level will undoubtedly attract increasing numbers of students to mathematics/statistics classes.

Also, the Department is currently exploring the possibilities of establishing cooperative programs with industry at the undergraduate level. If we are successful in establishing such programs, then this will be an attraction to students, with a concomitant increase in student enrollment and/or majors.

C. APPOINTMENTS TO STAFF.

Dr. Catherine Macken was given a tenure-track term appointment as a replacement for Moshe Shaked. This appointment is a beginning three-year appointment that can be renewed for another three years (and a tenure decision is to be made at the end of the second three-year appointment). The appointment is effective the academic year 1978-79.

Dr. Michael Frese and Carla Wofsy have been appointed to visiting positions for the 1978-79 academic year effective in August, 1978.

D. SEPARATIONS FROM STAFF.

Moshe Shaked resigned to assume a position as Assistant Professor at the University of Indiana. His resignation is effective at the end of the 1977 summer term.

II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS.

1. ADVANCED STUDY.

None

2. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, etc.

Alfred Carasso - Consultant, Los Alamos Scientific Laboratory, July 1977.

Robert Cogburn - Sabbatical - Jan. 1, 1977 to May, 1977.

James E. Ellison - Sabbatical Leave - spent at Physics Department SUNY - Albany 1976-77. I taught grad. math methods course and interacted with researchers in ion-solid interactions. Research appointment at SUNY - Summer 1977.

Reuben Hersh - Visiting Lecturer, U. of Montana, May

W.T. Kyner - Sabbatical Leave - Semester I, 1977-78.

Pramod K. Pathak - Spent Spring and Summer visiting the Banach International Center for Mathematics, Warsaw Technical Univ. and Wroclaw University in Poland.

Ronald M. Schrader - Visiting Assistant Professor - Penn. State University, Summer 1977.

Moshe Shaked - Seminar De Mathematique Superieur, Montreal, June 20 - July 16, International Statistical Institute, New Delhi, India, Dec. 5 - Dec. 15.

Stanly Steinberg - Park City Partial Differential Equation & Geometry conference, MACSYMA Users Conference, Berkeley, California, Nonlinear Evolution Equations, Madison, Wisconsin, SIAM Fall Meeting, Albuquerque.

Alexander Stone - Sabbatical: U. of Warwick, Coventry, England.

3. NEW SCHOLASTIC HONORS, etc.

Archie Gibson - Selected by students to become an honorary member of Phi Eta Sigma, national freshman honor society.

Richard J. Griego - I have received four grants this past year:
1) NSF Grant for conference on mathematical biology; \$12,000.
David Sanchez was co-director with me.

Conference was held at the D.H. Lawrence Ranch from August 1 through August 5, 1977. Sponsored by the Rocky Mountain Mathematics Consortium. Proceedings of the conference are to be published by the Rocky Mountain Journal of Mathematics with myself and Dr. Sanchez as co-editors.

2) NIH Grant under the auspices of the Minority Biomedical Support Program for \$33,510 for a three year period ... for the purpose of encouraging undergraduate and graduate minority students to pursue a career in the biomedical sciences. This is my own individual grant that is part of a much larger UNM-wide grant.

3) NSF Grant: Planning Grant for Resource Center in Science and Engineering; for \$50,000 for seven month period. For purpose of writing a proposal for \$2.8 million for a three-year period; to be submitted to NSF. I am principal investigator.

4) NIH Grant under the auspices of the Minority Access to Research Careers Program. Funded for \$80,100 for one year with commitment to fund for additional four years (for total of \$421,720). This is an honors program for support of undergraduate minority students in mathematical biology; there are curricular aspects of the program too (I am teaching a special section of Math 180-181 in order to plan a basic change in that sequence). Five professors and ten students are to be supported. I am principal investigator.

I also am co-principal investigator and co-director of a \$20,000 grant obtained from the National Oceanic and Atmospheric Administration for the purpose of having a conference of Mexican American and Native American scientists in Boulder, Colorado in February 1978 (sponsored by the Society for the Advancement of Chicanos and Native Americans in Science).

4. PUBLICATIONS.

Richard Bourgin: Weak* Compact Convex Sets with Separable Extremal Subsets have the Radonnikodym Property (to appear in Proceedings of the Am. Math. Soc.)

Laura Cameron: Study Guide for Algebra and Trig. (Algebra and Trig. was written by Lial & Miller) Scott Foresman and Company, available Feb. 1978; ISBN 0-673-15139-5.

Alfred Carasso: SIAM J. Applied Mathematics, 33, (1977), pp. 399-426, J. Math. Anal. and Appl. 59, (1977), pp. 169-209, SIAM J. Num. Anal., 15, (1978) to appear.

Ralph DeMarr: DSC-Pola with multiplicative map, Trans. AMS, Vol. 224 (1976), 179-187.

DSC-Pola with logarithm function, Proc. AMS, Vol. 65 (1977), p. 11-15.

James E. Ellison: 'Statistical Equilibrium Spatial Density in Planar Channeling', Sandia Tech Report 77-0361, with S.T. Picraux.

'Planar Channeling Spatial Density under Statistical Equilibrium', accepted for publication in the Physical Review (B1), w/S.T. Picraux (a revision and expansion of the above report).

Roger Entringer: "Geodetic Connectivity of Graphs", IEEE Trans. Circuits and Systems, 1977, Volume 24, pp. 460-463. Co-authors: D.E. Jackson and P.J. Slater.

"Enumeration of Certain Generalized Arrays Associated with Ballot Numbers", Matrix Tensor Quart., 1977(76), Volume 27, pp. 39-47. Co-author: D.E. Jackson.

Archie Gibson: Article: "N-Body Quantum Scattering Theory in Two Hilbert Spaces. I. The Basic Equations". Journal of Mathematical Physics, 1977, Vol. 18, No. 12, pp. 2336-2347. Co-author: Colston Chandler.

Richard Griego: Weyl's theorem for certain operator-valued potentials (with R. Hersh), Indiana Journal of Mathematics, Jan.- Feb. 1978.

Theodore Guinn: "Augmented Penalty Functions for Delayed Control Systems", Journal of Optimization Theory and Applications, Vol. 21, No. 1, Jan. 1977.

"Optimal Fields for Integral Equations". A paper presented at conference on Optimal Control and Differential Equations, Univ. of Oklahoma, March, 77.

Reuben Hersh: "Weyl's theorem for certain operator-valued potentials" (with R.Griego), Indiana U. Math. J., Jan. 78.

Abraham Hillman: "The William Lowell Putnam Mathematical Competition," The American Mathematical Monthly, 1977, Vol. 84, No. 9, Co-authors: G.L. Alexanderson and L.F. Klosinski.

W. T. Kyner: 'Asymptotic and Numerical Approximation of Roots of Lotka's Equation' with D. Sanchez. To appear in Theoretical Population Biology.

Richard Metzler: 'Uniqueness of Extensions of Positive Linear Functions', to appear in the Pacific Journal of Mathematics.

C.W. Onneweer: Differentiability of Rademacher Functions on Groups, Acta Scient. Math (szeged) 39 (1977), 121-128.

Fractional Differentiation on the Group of Integers of a p-Adic or p-series Field, Anal. Math. 3 (1977), 119-130.

Pramod Pathak: Sufficiency and Tests of Goodness of Fit, Scan. J. Statist., 1977, Vol. 4, 39-43.

Two Applications of Basu's Lemma, Scand. J. Statist., 1977, Vol. 4, 37-38.

A Characterization of Certain Weak*-Closed Subalgebras of L^∞ . J. Math. Anal. and Appl., 1977, Vol. 58, 174-177.

Steven Pruess: "An Algorithm for computing smoothing splines in tension", Computing, 1977, Volume 18.

David Sanchez: An iteration scheme for determining equations of dynamical systems (with D. Sweet), J. Applicable Anal. 6 (1977), 223-228.

Harvesting of competing populations (with F. Brauer), Proc. 3rd US-Mexico Symposium, Mexico 1976.

Populations and harvesting, SIAM Review 19 (1977), 551-553.

Ronald Schrader: "Robust Analysis of Variance," Commun. Stat., A6, 1977, 879-894. Co-author: J.W. McKean.

"Reinforcement Patterns in Depression" to appear in Behavior Therapy. Co-authors: W.E. Craighead, S.L. Schrader.

Moshe Shaked: A Family of Concepts of Dependence, Jour. of the Amer. Stat. Assoc. 72, pg. 642-650.

Statistical Inference ..., Communications in Statistics, A6, 1323-1339.

Fluctuations of Random Walk in R^d , Adv. Appl. Prob. (Sept, 1977)

Stanly Steinberg: Hyperbolic Equations on a Lie group (with R. Hersh). In preparation.

The Abstract Cauchy Problem (with R. Hersh). In preparation.

William Zimmer: Paper submitted to Journal of Amer. Stat. Assoc.: Independence of 2 Random Variables Conditioned on a Third Random Variable.

A Non-Parametric Approach to Accelerated Life Testing.

Communications in Statistics: Non-Parametric Estimation of An Acceleration Parameter.

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

Richard Allen: A New Method for the Numerical Solution of a Class of Fredholm Integral Equations (w/Boicourt). Submitted to J. of Comp. Phy.

Some Results on Vector Table Look*Up Procedures (w/B. Busbee, T. Jordan), submitted to ACM Trans. Math. Software

Alternations in Drug Kinetics During Cholestasis-Difference between a Cationic and Anionic Drug (w/R.C. Knodell, D.A. Brooks, W.T. Kyner) m.s. in preparation

A Method for Recovering the Matrix A in $q^i = Aq$, given q in Tabular Form (w/R.K. Wright), m.s. in preparation.

Kinetic Analysis of Human Beta Apoprotein in Genetic Hyperlipemia: Identification of a Role for Intermediate Density Lipoprotein (w/R.P. Eaton, D. Schade), m.s. in preparation

Prevalence of Plasma Lipoprotein Abnormalities in a Free-Living Population of New Mexico: Relationship to HDL Cholesterol (w/R.P. Eaton, J. Abrams, H. Ellis, L. Koopmans), m.s. in preparation

Co-investigator on National Heart Institute Research Grant (HE 120V5) Lipoprotein-Carbohydrate Metabolism (R.P. Eaton, principal investigator)

Michael Bevacqua: In Spring taught the second semester of "An Algebra course for Native Americans" for NACOE. Funded by the American Society for Engineering Education. Also wrote the preliminary report on this course during the summer.

Richard Bourgin: Book: Geometric Aspects of Banach Spaces with the Radon-nikodym Property: About 2/3rds completed.

Alfred Carasso: Sponsored Research, U.S. Army Research Office, "Computing Linear and Non-linear parabolic equations and applications". 2 papers submitted for publication.

Robert Cogburn: "On sums of transition probabilities for denumerable Markov Chains" UNM Technical Report No. 337.

"Markov chains in random environments" in progress.

Ralph DeMarr: DSC-Pola with derivations, Proc. AMS (submitted)
DSC-Pola with homomorphisms, (in preparation)

D. W. Dubois: I joined with Prof. Harnick, Mann, and Darling in preparing an NIE proposal for studying Navajo arithmetic difficulties: 'Development of Navajo Children's Concepts of: Number and Numeration'. Not funded.

Gustave Efroymson: The following three papers were completed: "Nash rings on planar domains" "Sums of squares in planar Nash rings", both submitted for publication, "Real and p-adic varieties" accepted for publication by the Journal of Algebra.

In progress: a joint work with J. Bochnak (Geneva) "On the 17th Hilbert problem for Nash functions". Also soon to be written, "Riemann mapping for planar Nash domains".

James Ellison: 'Continuum Model Planar Channeling and the Tangent Squared Potential', UNM TR 341, submitted to Physical Review (B1).

'Momentum Density Calculations in Axial Channeling', to be submitted to the Physical Review (B1), w/S.T. Chui and W.M. Gibson.

Investigating rate of approach to statistical equilibrium, electron multiple scattering and thermal vibrations in channeling.

Continued study of Quantum Mechanics and the Nature of Human consciousness.

Roger Entringer: Accepted for publication: "A Note on k-critically n-connected graphs" (with P.J. Slater), Proc. Amer. Math. Soc.

"A Theorem on Critically 3-connected Graphs" (with P.J. Slater), Nanta. Math.

"Characterizations of Graphs having Orientations Satisfying Local Degree Restrictions, (with L. Tolman), Czechoslovak Math. J. Four other papers submitted for publication.

Bernard Epstein: Employed as consultant in unclassified research (on approximate techniques for solution of non-linear problems of fluid dynamics) by Kirtland AFB.

Archie Gibson: "N-Body Quantum Scattering Theory in Two Hilbert Spaces. II. Some Asymptotic Limits." (with C. Chandler). Submitted.

"Long-range Invariance Principle Revisited" (with C. Chandler). Submitted.

"N-Body Quantum Scattering Theory in Two Hilbert Spaces." Parts III and IV with C. Chandler are in preparation.

Richard Grassl: The paper "Levi Structures for Polynomial Ideals" was submitted to the Pacific Journal of Math.

Also; in the same month (June '77) a joint paper "Functions on Tableau Frames" (w/A. Hillman) was submitted to Discrete Journal of Mathematics.

Invited to become a member of Board of Reviewers of T.Y. College Mathematics Journal.

Richard Griego: Transport approximation of diffusion processes and application to stochastic integrals (with Luis Gorostiza)

Liang-Shin Hahn: Sums of Distinct Egyptian Fractions (submitted)

Projects: Studies on Nevanlinna Class
Theory of Hyperfunctions

Reuben Hersh: NSF Grant GP 34188, Research on Operator Theory; UNM Tech. Report # 33, "High-Accuracy Stable Difference Schemes". Collaborations with P. Davis (Brown U.), R. McKelvey (U. of Montana), J.A. Donaldson (Howard U.), S. Steinberg (UNM) on work in progress.

Abraham Hillman: A textbook: "A First Undergraduate Course in Abstract Algebra, Second Edition," Wadsworth Publishing Co., to be published in January 1978. Co-author: G.L. Alexanderson.

Catrina Kiefe: "Investigacao Sobre un programa de Ciencias basicas para Engenheiros" (with S.K. Menendira). Paper read at the Congresso de Engenharia, Lisbon, Nov. 1977.

L.H. Koopmans: An application of a Crossing Probability Bound to Population Biology. To appear in Commun. in Stat.

Statistical Study of Cholesterol Data from 1975-76 New Mexico State Fair (with R. Allen and P. Eton) work completed, study currently being written up for publication.

A Statistical Study of Pulmonary Arterial and the Sudden Infant Death Syndrome (with J. Fullilove) currently being submitted for publication in NATURE.

Work continuing on an elementary statistics textbook.

A simulation study of the operating characteristics of the procedure introduced in the first project above is underway jointly with P. Buslee.

W.T. Kyner: Research in Pharmacokinetics with R.C. Allen and R.G. Knodell

Research in Neurobiology with G.A. Rosenberg.

Richard Metzler: "Intrinsic Characterization of Abstract Integrals" in preparation.

"Representations of Pseudo-lattice Ordered Vector Spaces" submitted for publication.

Merle Mitchell: Text for 338 in progress.

C.W. Onneweer: Differentiation of Fractional Order on p-Groups, Approximation Properties (completed)

Differentiation on p-Adic or p-Series Field (completed)

Pramod Pathak: Work in progress in sample surveys, reliability, zero-one laws and statistical inference.

Steve Pruess: "Numerical methods for singular eigenvalue problems...", with Charles Fulton, submitted to Math. Anal. and Appl.

"Alternatives to the exponential spline in tension", to be submitted.

Ronald Schrader: "Robust ANOVA based on M-estimates," submitted to Annals of Stat.

"Geometry of Robust Procedures," submitted to Ann. of Stat.

" L_1 Analysis of Variance," in preparation.

"Testing Fixed Effects in Mixed Models" in preparation.

"Robust Multiple Comparisons" in preparation.

Moshe Shaked: Design of Accelerated Life Tests for Reliability of Dormant Components - Research supported by Sandia Laboratories. Grant is renewed at the amount of \$13066 10/1/78 - 9/30/78.

Alex Stone: Supervision of 2 dissertation students (Reardon & McNerney)

Work on a generalized Laplace operator and Frobenius Theorem (Differential Equations)

William Zimmer: A Sampling Plan for Controlling the AOQ between Bayes and Minimax.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES, (meetings attended, offices held, papers read, etc.)

Richard Allen: Presented paper 'Some results in vector table look-up procedures' at Regional ACM meeting in Albuquerque, NM, 10/78

Presented paper: 'Linear Compartment analysis of the uptake of materials by the liner', at the University of Nevada at Las Vegas, 12/5/77

Co-author of refereed paper, 'Alterations in drug kinetics during cholestasis: differences between a cationic and anionic drug' presented by R.K. Knodell at the American Association for the Study of Liver Disease in Chicago. 10/30 - 11/1/77.

Richard Bourgin: Annual National Am. Math. Society Meeting, attended; Jan. 1977 in St. Louis.

Annual National Am. Math. Society Meeting, attended; August 1977 in Seattle.

Laura Cameron: Meetings attended: NCTM (National Council for Teachers of Math), Alamogordo, NM, Jan. 1977 and Colorado Springs (Oct. 1977)

Panel speaker at a MAA (Math Assoc. of Am.) meeting in Phoenix (March 1977)

Conference on Teaching Math to Indian People, held at UNM (Summer 1977)

Alfred Carasso: SIAM Summer meeting, Philadelphia, June 1977 - read paper.

AMS Annual meeting, Atlanta, Invited paper, Jan. 1978.

Invited talk, Tulane University, Jan. 1978.

Robert Cogburn: Referee for "Annals of Probability"

Ralph DeMarr: Group Algebras, AMS meeting, April, 1977.

D.W. Dubois: Read paper, 'Ceramic Art Models for Algebra', at state NCTM meeting in Alamogordo in February 1977.

Gustave Efroymson: Attended national American Math Society meeting in St. Louis and presented a talk on "Nash rings on planar domains".

James Ellison: Joint paper presented at March meeting of the American Physical Society in San Diego.

Attended Spring and Fall meetings of Society for Industrial and Applied Math. - Philadelphia and Albuquerque.

Joint paper presented at 3rd International Conference on Ion Beam Analysis in June in Washington, D.C.

Joint work presented at the 7th International Conference on Atomic Collisions in Solids in September in Moscow.

Roger Entringer: "K-critically n-connected graphs", a paper presented at the national meeting of the American Mathematical Society, January 1977.

Bernard Epstein: Attended national meeting of SIAM (Society for Industrial and Applied Mathematics), Albuquerque, November.

Arcnie Gibson: Participated in the 1977 Gordon Research Conference on Few Body Problems at Meriden, New Hampshire, on August 15-19.

Richard Grassl: Attended the MAA-AMS math meetings in California (Cal. Poly. St. Univ. at San Luis Obispo and presented the paper "Functions on Tableau Frames".

Richard Griego: Member, Council of American Mathematical Society (3-year term)

Attended annual meeting AMS in January, 1977 (includes council meeting) - also chaired a session on probability theory.

Directed and attended conference on Deterministic Differential Equations and Stochastic Processes Models for Biological Systems in Taos, (D.H. Lawrence Ranch); gave a talk in a workshop on stochastic processes models in biology.

Attended meeting of Society for the Advancement of Chicanos and Native Americans in Science, Albuquerque, October.

Panelist, Series on 'Nuestra Cultura Hispanica - Muere o Vive?' sponsored by New Mexico Humanities Council and Department of Modern and Classical Languages, November.

One hour invited talks (two), Fort Lewis College, January.

Theodore Guinn: Chairperson, SIAM Fall meeting, Albuquerque, Oct. 31 - Nov. 2, 77.

Attended Biomathematics Conference, Taos, Aug. 1-5.

Reuben Hersh: AMS New York meeting, April; SIAM meeting, Albq., November (Read paper on UNM TR 338)

Member, AMS Committee on Exchange of Information; Taos meeting on Biomathematics.

Abraham Hillman: Director of the William Lowell Putnam Mathematical Competition and member of the Two Year College Contest Committee of the Mathematical Association of America. Editor of the Elementary Problems Section of the Fibonacci Quarterly.

Catarina Kiefe: Attended "symposium on non-standard analysis", Iowa State Univ., June 1977.

L.H. Koopmans: Assembled programs for the Western Regional Meeting of IMS held at Stanford in June and the Annual IMS meeting held in Seattle in August in the capacity of Associate Program Secretary of IMS for the Western Region.

Attended the Stanford meeting of IMS.

On editorial board for Communications in Statistics, refereed and transmitted papers for publication therein.

Attended meeting on Large Data Sets - Univ. of Texas, Dallas, February.

Visiting Lecturer Committee, Council of Presidents of Statistical Association.

Merle Mitchell: Workshop at Del Norte HS, Albuquerque, Feb. 1977.

Talk at annual NCTM meeting, Cincinnati, April, 1977.

Talk at regional NCTM meeting, Colorado Springs, October, 1977.

C.W. Onneweer: Attended meeting on linear spaces and approximation in Oberwolfach, W. Germany, Aug. 20-27, 1977.

Steven Pruess: "Rational alternatives to the exponential spline in tension", paper presented at the fall meeting of SIAM, October 1977.

"Curve fitting algorithms", talk to Albuquerque SIGNUM Chapter, December 1977.

David Sanchez: Invited speaker, session on mathematical biology, AMS meeting in Hayward, CA, April 22, 1977.

Invited speaker, session on mathematical bioeconomics, AMS meeting, Seattle, August 18, 1977.

Member, Agenda Committee, AMS.

Ronald Schrader: "Robust ANOVA" - talk presented to ASA meeting, May 77, Santa Fe.

Alexander Stone: Reviewer for Math Reviews, Zentralblatt.

7. OTHER PROFESSIONAL ACTIVITIES

Richard Allen: Visiting staff member, Los Alamos Scientific Laboratory.

Michael Bevacqua: I teach primary and instrument flying.

Alfred Carasso: Interviewed for position of Director, Institute for Computer Applications in Science and Engineering - NASA Langley Research Center, Hampton, VA, June 1977.

D.W. Dubois: Made two patent applications: 'Rouelletes' & 'Marble Files' through UPI.

Participant in symposium 'Abelian Groups Bicentennial' at New Mexico State University. (Dec. 76--after last year's Biog. Report).

Teaching: Designed a new course (Math 339 for Elementary School Teachers) to be offered Spring 78.

James Ellison: I am a consultant to the ion-solid interactions group at Sandia Laboratories.

Roger Entringer: Reviewer for Mathematical Reviews and Zentralblatt für Mathematik.

Bernard Epstein: Refereed papers for several research journals; reviewed manuscripts for several publishers.

Archie Gibson: Reviewer of papers for Mathematical Reviews;
UNM Speakers Bureau.

Richard Grassl: Presented several math topics, conducted
problem solving sessions to APS schools, Jan. - April (six
meetings total).

Richard Griego: Member, selection committee for National
Chicano Council on Higher Education Post-doctoral Fellowships
Program, February.

Site visitor - consultant, for Minority Biomedical Support
Program, New Mexico State University, February.

Member, Executive Committee, National Chicano Council on
Higher Education.

Member, National Advisory Board, National Chicano Council
Research Network.

Keynote speaker, Hispano Chamber of Commerce meeting,
Albuquerque, November.

Site visitor - consultant, for Minority Access to Research
Careers Program, Meharry Medical College and Tennessee State
University, Nashville, Tenn., October.

Member, Society for the Advancement of Chicanos and Native
Americans in Science.

Liang-Shin Hahn: Participated in a seminar on several complex
variables conducted by Professor Thomas McCoy.

Guest speaker to Math 495, 431 and 561.

Catarina Kiefe: Colloquium talk at Math Dept., Wayne State
University

L.H. Koopmans: Consultations with Dr. Phillip Gary, UNM Med.
School (with P. Buslee), several UNM students and faculty.

Merle Mitchell: North Central Ass'n Education (team member)
for Manual School, April 1977.

Steven Pruess: Reviewer, referee for several mathematics
journals

David Sanchez: Co-director, Rocky Mt. Math Consortium
meeting on Mathematical Biology, Taos, Aug. 1-5, 1977

Colloquium speaker: Claremont Colleges (April 2, 1977) New
Mexico State Nov. 17-18, 1977.

Ronald Schrader: Talk presented at University of Texas at
Dallas, Jan. '77.

Talk presented at Bell Laboratories, July '77.

Talk presented at Penn. State Univ., June '77.

Stanly Steinberg: Consulting scientist at Los Alamos Scientific Laboratories.

Alexander Stone: Colloquium talk at U. of Durham (May 1977)

Talk at Tech. Univ. Berlin (June 1977). Several talks at Warwick.

William Zimmer: Statistical Consultant to a political campaign. Statistical consultant to a medical organization.

8. NON-TEACHING UNIVERSITY SERVICE.

Richard Allen: Director of Ph.D. dissertation - W. Vandevender;
Co-director of Ph.D. dissertation - J. Morel; Master's Exam Committee member.

Laura Cameron: Coordinator - Math 120; remedial math coordinator;
served on the Continuing Education Committee for UNM and Undergraduate Committee for Math. Dept.

Alfred Carasso: Graduate Committee - Development of new program in Applied mathematics.

Jeff Davis: New Mexico Math Contest

Ralph DeMarr: Travel Committee

D.W. Dubois: Prepared Math Dept. Brochure for distribution to high schools. Departmental Undergraduate Committee.

Gustave Efroymson: Served on departmental committee to reorganize the graduate program. Member of Departmental Master's Exam Committee.

James Ellison: I am on several Ph.D. committees in both Mathematics and Engineering.

Roger Entringer: Chairman A & S Natural Sciences and Mathematics Promotion Comm.

Member A & S Tenure and Contract Renewal Comm.

Member Faculty Library Comm. Chairman Periodical Routing Comm.

Bernard Epstein: Served as departmental colloquium chairman; served on one departmental tenure committee and one promotion committee.

Archie Gibson: Masters Examination Committee; Presidential scholar advisor.

Richard Grassl: Coordinator of 5 123 Math sections, (Fall 77)
Coordinator of 6 150 Math sections, (Spring 77)

Richard Griego: Member, Senate Executive Committee (Spring semester)

Chairperson, Senate Committee on Graduate Programs and Standards

Member, Provost Search Committee

Committee to select ethnic studies librarian

Director, Minority Access to Research Careers Program; I supervise two students on research projects in this program.

Director of a math component research project for the Minority Biomedical Support Program; I supervise two students on research projects in this program

Director, Planning Grant for Resource Center for Science and Engineering, I have a staff of eight people.

Mathematics department graduate committee

Mathematics department committee to revise graduate curriculum

Member of the following students' masters or Ph.D. committees:

- i) David Hunnicut (Education) - Ph.D.
- ii) Gilbert Montoya (Education) - Ph.D.
- iii) Arthur Nehrer (Electrical Engineering) - M.S.
- iv) Andrew Sanchez (Mathematics) - Ph.D.

Theodore Guinn: Board of Directors, UNM Faculty Club.

Liang-Shin Hahn: Committee on selection of Graduate and Teaching Assistants (Fall semester); Master's Exam Committee (Spring semester); High School Math Contest (Fall semester).

Catarina Kiefe: Women Studies Committee

L.H. Koopmans: Computer Use Committee (consulting service subcommittee)

Dean's committee on Undergraduate Academic Programs

Department Graduate Committee

Participated in the design of new statistics graduate program in Department of Mathematics.

One Ph.D. student to finish next summer.

Committee to select Assoc. Vice President of Computing.

W.T. Kyner: Chairman Ph.D. committee for T.J. Burns (degree granted Aug. 1977)

Richard Metzler: Admissions and registration committee, Director of graduate studies in the Math Dept. (Jan.-July). Dept. undergraduate committee. Director: Math honors program.

Merle Mitchell: Faculty advisor KME

Pramod Pathak: Faculty advisor to Mr. Ray Williams and Mr. Chap.

Steven Pruess: Departmental committees: Graduate, GA-TA Selection (Chairman), Masters Exam, Member of twelve dissertation committees in math and engineering.

David Sanchez: Thesis Director: Larry Miller, Ph.D. Mathematics, UCLA, 1977.

Ronald Schrader: Statistical Consultation, Faculty advisor, Math. Dept. Undergraduate Comm., Stat. Curric. Develop. Comm. - Math Dept.

Stanly Steinberg: Chairperson of Math & Stat. Undergraduate Comm.

Alexander Stone: Masters Exam Committee

William Zimmer: Advisor to L.T. Chap during Professor Pathak's sabbatical.

Committee for Graduate Student in Education - advising on statistical part of thesis.

Consulted with Urban Observatory and member of Biology Dept.

9. PUBLIC SERVICE (church activities, etc.)

Richard Allen: Active in church.

Michael Bevacqua: I fly volunteer search and rescue missions for ACRA when needed.

Richard Bourgin: Mountain search and rescue.

Laura Cameron: Helped organize and circulate petitions for a protest regarding rezoning in my neighborhood and appeared before the environmental land planning commission.

Richard Griego: Member, Advisory Board for North Valley Community Center.

L. H. Koopmans: Tour leader, New Mexico Wheelman Bicycling Club.

Richard Metzler: Teacher for Albuquerque Childbirth Education Association.

David Sanchez: Member, Selection Committee, NCCHE Postdoctoral Fellowships

10. PERSONAL INFORMATION

Michael Bevacqua: Married 13 May 77.

Alfred Carasso: Baby girl born October 11, 1977.

Catarina Kiefe: Married to Robert Farmer, June 1977.

Moshe Shaked: Married on June 15, 1977.

Stanly Steinberg: Samantha Fay Steinberg, born August 19, 1977.

William Zimmer: divorced.

The Report of the Department of Modern and Classical Languages

July 1, 1977-June 30, 1978

Sabine R. Ulibarri, Chairman

I. General departmental information.

A. Significant achievements.

1. Departmental organization: a) Professor George F. Peters, the Assistant Chairman of the Department, was on sabbatical leave during Semester II. During his absence Professor John J. Bergen served as Acting Assistant Chairman. b) A new interdepartmental committee has been formed to oversee the Classics program. Its members, during its initial meetings in the spring, were Professors Tuttle (Philosophy), Berthold (History), Buchanan (English), White (Modern and Classical Languages), Murphy (Modern and Classical Languages), and Smith (Modern and Classical Languages). The initial deliberations of this group involved the replacement for Professor Mellon. It is expected that it will meet from time to time in the future on other matters pertaining to Classics and its integration into other A and S. programs.
2. Recommendations of the Committee on Promotion and Tenure.
 - a. Jon Tolman was granted tenure, effective Semester I, 1979.
 - b. Tamara Holzapfel was promoted to the rank of full professor, effective Semester I, 1978.
3. New Programs.
 - a. The faculty approved a new B.A. program in Spanish. The undergraduate student who is majoring in Spanish can now choose between two options:

Plan A. Hispanic Literature.

Required courses are 301, 302, 351, 352 or 357, plus at least nine additional hours of literature courses.

Plan B. Hispanic Language and Culture of the Southwest.

Required courses are 297, 301, 302, 351, 357, and 345 or 346, plus 12 additional hours in any combination in literature, linguistics, culture, and folklore.

Under both plans the student completes 30 hours of course work above 290 and completes work in another foreign language at the level of 202, 276 or a reading knowledge.

- b. This was the first year that our new graduate degree program was in effect. The new plan is proceeding effectively.
- c. This year is likewise the initiation of our Special Spanish course, which is patterned after Flash French. The course (which was developed and directed by Professor León J. Márquez) offers the student five semesters of Spanish in one semester. An attractive feature of this course each semester is a two-week visit by the class (including one professor and two teaching assistants) to Guadalajara, Mexico, with excursions to other places of interest in Mexico.
- d. The summer schools in Taos have now expanded to include French and Spanish as well as German.
 - (1) The French section will offer its session from June 12 through July 8, 1978. This program, which is co-directed

by Professor Claude Senninger of the Department of Modern and Classical Languages and Professor Steven Kramer of the Department of History, is sponsored by the UNM Office of Development, the Citizens of New Mexico for French, and the Alliance Française. The Division of Continuing Education at UNM offers academic credit for courses taken at the session.

- (2) The Spanish section is also planning on conducting a session in Taos beginning in the summer of 1979. The offering of this program is contingent upon the reception of a Title VII grant for which negotiations are still in progress. A pilot program will be held in Albuquerque during the summer of 1978. The director of the program is Professor Sam Guyler. The program will provide training in bilingual-bicultural education to public school teachers in New Mexico.

- e. Beginning this year the Department assumed its role as the agency for certifying the language proficiency of candidates for a bilingual-bicultural endorsement on their New Mexico teaching credential. Candidates may demonstrate their proficiency by successfully completing Spanish 302 at UNM (or its equivalent at another university) or by passing a proficiency examination. Our Department administers this proficiency test three times per year--in the Fall semester, the Spring, and the Summer session. The first such test (which was coordinated by Professors Sabine R. Ulibarri, León J. Márquez and John J. Bergen) was given on February 25, 1978; twenty-five students took the examination; eighteen passed.

4. Cultural and Social Activities.

a. General

A departmental faculty, staff, and graduate student dinner, hosted by the graduate students, was held on April 29, 1978 at the UNM Faculty Club.

b. Spanish.

- (1) The annual initiation ceremony of Mu Alpha chapter of Sigma Delta Pi (the National Hispanic Honorary Society) was held on April 27, 1978 in the Lounge of Ortega Hall. Ten new members were initiated into the society. Following the ceremony refreshments were served. Lou Gutiérrez-Zamora and Professor John J. Bergen coordinated the activities.
- (2) Several members of the Spanish faculty read papers at national and regional conventions. See Section II of this report.
- (3) An International Symposium on Spanish and Spanish American Literatures was held on October 27, 28, and 29, 1977. Participants were Dinko Cvitanovic (director), Sabine R. Ulibarri, Jorge de Sena, José Hierro, Angel González, José Emilio Pacheco, Héctor Ciocchini, Juan Benet, Juan García Hortelano, Juan Rulfo, Manuel Zapata Olivella, Ricardo Gullón, Luis Harss, Julio Ortega, Jean-Marie Le Clézio, J.R. Marra-López, Tamara Holzapfel, Pelayo Fernández, Galo René Pérez, Jack Tomlins, and Alfred Rodríguez. The Symposium was held in the New Mexico

Union Theater. On Saturday, October 29, it concluded with an excursion to Santa Fe, New Mexico, including a visit to the International Museum of Folkloric Art and dinner in the La Plazuela dining room of the La Fonda Hotel.

- (4) Throughout the year there was a lecture series dealing with Hispanic culture in New Mexico. This series, entitled Nuestra Cultura Hispánica--¿Vive o Muere?, was sponsored by a grant from the New Mexico Humanities Council and directed by Professor Dick Gerdes. The following were the participants in the eight lectures of the series.

Sergio Elizondo, "Observaciones sobre la cultura hispánica en Nuevo México" (panelists: José José Armas, Ángel Collado, and Jon Tolman).

Pedro Avila, "La canción y la poesía social" (panelist: Néctor García).

José Reyna, "La cultura mestiza en Nuevo México" (panelists: Richard Griego, Hugo Peña, and Rupert Trujillo).

Rev. Benedicto Cuesta, "Lenguaje y literatura en Nuevo México" (panelists: John Archibeque and Frances L. Swadesh).

Stanley Gutiérrez and Albino Baca, "La música evangélica en Nuevo México" (panelists: George Salazar, Mary F. Reza, and Pauline Gonzales).

María Gutiérrez de Spencer, "La educación bilingüe

en Nuevo México" (panelists: Miguel Encinias and Rosa Fernández).

Dinko Cvitanovic, "Nuevo México: una etapa de mi aprendizaje" (panelists: Alfred Rodríguez and Juan Barona).

Orlando Romero, "La relación entre la destrucción de la cultura hispánica y el equilibrio ecológico en Nuevo México" (panelists: Lorenzo Chávez and Paul F. Larrazolo).

- (5) On December 2, 1977 a colloquium in honor of Nobel Prize winner Vicente Aleixandre was held in the Reading Room of Ortega Hall. The following took part in the colloquium: June Carter, Dick Gerdes, Angel González, Tamara Holzapfel, Alfred Rodríguez, Guido Rodríguez, and Tomás Ruiz-Fábrega.

c. French

- (1) Jean-Marie Le Clézio, the noted French novelist, served as a Visiting Professor of French during the academic year.
- (2) Also throughout the year the French for Children and French for Adults classes were held each Saturday. This year there was a record enrollment of 120 students, which represents an increase of 20% over last year's enrollment.
- (3) The Alliance Française sponsored its annual Christmas dinner, the proceeds going to the French scholarship fund. During the year two UNM undergraduate students in French studied under such scholarships in France. Similarly,

two undergraduates have been awarded scholarships to study in France next year.

- (4) On March 3, 1978 the French theatrical company, Le Tréteau de Paris, presented a double bill in Popejoy Hall: Larimaquoi? Larimarien! (sketches by Jacques Prévert) and La Cantatrice Chauve by Eugène Ionesco.
- (5) The annual French weekend for high school and university students was held in Glorieta, New Mexico, from March 31 through April 2, 1978.
- (6) The French playwright Nathalie Sarraute visited UNM from April 4 through April 21, 1978. During that time she directed her play Le Mensonge which was presented in the Experimental Theater on April 14, 15, and 16, 1978. While at UNM she also visited four French classes, three Spanish classes, one Comparative Literature class, and one Portuguese class.
- (7) A symposium entitled Literature in New Mexico: New Mexico in Literature was held on April 17 and 18, 1978. Participants in the symposium included Sabine R. Ulibarri, Joseph Zavadil, Frederick Warner, Rudolf Anaya, Gene Frumkin, Jean-Marie LeClézio, Antonio Márquez, Thomas Meyer, Nathalie Sarraute, Claude-Marie Senninger (director of the symposium) and Dudley Wynn.
- (8) This Spring and Summer the City of Albuquerque is sponsoring a sixteen-week program to revitalize downtown Albuquerque. The French section of the Department participated in that program on Saturday, May 6, 1978. The activities included

an exposition of French photography, the showing of a French movie, bicycle racing, music, other entertainment, and the sale of French food.

d. German

- (1) From June 10 through July 15, 1977 the German section successfully ran (for the second year) its "Deutsche Sommerschule von New Mexico in Taos." Under the directorship of Professors Peter Pabisch and George Peters and co-sponsored by the Goethe House in New York and the Consulate of the Federal Republic of Germany in Houston, the summer school offers students of German from around the country four weeks of intensive language training and academic courses in German Studies. Credit is awarded through UNM's Division of Continuing Education. A third session of the school is planned for June 12 through July 8, 1978.
- (2) The sixth annual German weekend for high school and university students was held in Glorieta, New Mexico, from March 31 through April 2, 1978

e. Portuguese

A six-week summer session will be held during June and July, 1978, in Lisbon, Portugal. Professor Jack Tomlins of our Department and Professor Gerald Slavin, the Director of International Programs and Services at UNM, are co-directors of the summer program.

f. Classics

During the Spring semester Professor Cynthia Thompson gave a lecture on "Making Sense of Myth."

g. Comparative Literature

(1) Professor Patricia Murphy of the French section began her post as the Chairperson of the Committee for Comparative Literature.

(2) During the Fall semester Professor Max Oppenheimer presented a lecture entitled "On Translating the Impossible."

B. Significant plans and recommendations for the near future.

1. The German section has presented a proposal for adding an M. A. degree in German, to be offered through the German summer school in Taos, New Mexico. The faculty of the Department will discuss this proposal during the Fall semester of 1978.
2. The Portuguese section has indicated the need to add a linguistics dimension to the Luso-Brazilian program. This addition would include offerings in phonology, dialectology, and syntax to go along with the present offerings in philology and medieval literature.
3. The Department is interested in
 - a. the establishment of training programs for bilingual-bicultural teachers in language, linguistics, literature, and culture. Course offerings tailored to these needs are presently in the planning and experimental stages;
 - b. the development of a Southwestern Study Center which will focus on southwestern Spanish, native American languages, southwestern Spanish folklore, and southwestern Spanish culture;
 - c. the development of complete immersion courses in German, Portuguese, and Russian, modeled after our present offerings of Special Spanish and Flash French;
 - d. the development of specialty language courses (especially in Spanish) for lawyers, doctors, educators, secretaries and, in

conjunction with other departments, language courses for business majors, engineers, etc.; and

- e. the establishment of a Spanish literary journal.

C. Appointments to staff

1. The following appointments were effective Semester I, 1977-78:
 - a. José Reyna, an associate professor of Spanish, was hired to fill the position vacated by the retirement of Professor Rubén Cobos.
 - b. June Carter was hired as an instructor in Spanish.
 - c. Natasha Kolchevska, an instructor in Russian, was hired to fill the position vacated by the resignation of Richard Robin.
 - d. Jean-Marie LeClézio had a one-year appointment as a visiting professor of French, a position created by the resignation of Professor Jack Kolbert.
2. The following appointments will be effective Semester I, 1978-79:
 - a. Diana Hazlett, who is completing her Ph. D. degree at the University of Iowa, has been hired as a visiting instructor in Classics to replace Peter Mellon.
 - b. The search for an assistant professor of Navajo² is still in progress.

D. Separations from staff.

1. Professor Jack Kolbert of the French Section resigned during the summer of 1977. His resignation was effective on July 31, 1977.
2. Assistant Professor Peter Mellon is leaving the Department at the end of the Spring semester 1978 after having completed six years of service in the Classics program.

II. Composite of information requested on individual biographical supplements.

1. Advanced study

- a. Warren S. Smith, Jr., NEH fellowship to study Greek and Roman New Comedy, summer, 1977, University of California, Berkeley, under Professor William S. Anderson.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

- a. Pelayo H. Fernández. One semester sabbatical leave (Spring).
Travel: Spain, France.
- b. Angel González. University of Oviedo (Oviedo, Spain).
- c. Sam Guyler. Sabbatical (Fall '77). Spent the period from August '77 thru October '77 developing and writing up two grant proposals to establish a summer language institute for Spanish bilingual teachers. Submitted November 1 to NEH and Title VII. Each proposal is over 200 pages long. Lived in Mexico November through December 1977.
- d. Robert Holzapfel. Summer travel to Germany; visit to Hesse Exhibit at the Marbach Center.
- e. Robert C. Jespersen. Summer teaching: Deutsche Sommerschule von New Mexico. Travel: research trip to Germany, June 1977.
- f. Enrique E. Lamadrid. On sabbatical for Spring Semester 1977; leave without pay for Fall 1977. Travel in South America (Panamá, Colombia, Perú, and Ecuador) and Mexico during sabbatical; travel throughout United States during period of absence.
- g. Byron Trent Lindsey. USSR, summer: see item 3.
- h. Patricia Murphy. Spent six weeks in France during the summer.
- i. Marshall R. Nason. Travel: Trinidad and Tobago, Jamaica, Puerto Rico, January, 1977; Canada, Summer, 1977.

- j. Peter Karl Pabisch. Co-director of Die Deutsche Sommerschule von New Mexico in Taos Ski Valley: 2nd session: June 10 - July 13, 1977. April 77: AATG Conference--Texas, University of Texas at Austin; October 77: Conference of WAGS (Western Ass. of German Sts.), University of Arizona at Tempe; December 77: MLA at Chicago.
 - k. George F. Peters. 4 week trip to Germany in May to gather material for textbook.
 - l. Claude-Marie Senninger. Summer trip to France and Italy.
 - m. Jon M. Tolman. Summer research in Brazil (June-August), with funds provided by UNM Research Allocations Committee.
 - n. Jack E. Tomlins. Will co-direct summer program in Lisbon, Portugal (June 5-July 14, 1978).
3. New scholastic honors, fellowships, etc.
- a. Byron Trent Lindsey. IREX Fellowship (State Department Russian Language Teachers Exchange), Moscow State University, June 19-August 21, advanced linguistic and literary seminars.
4. Publications.
- a. John J. Bergen. "The Semantics of Spanish Count and Measure Entity Nouns," Language Sciences, February 1977, No. 44, pp. 1-9.
 - b. Garland D. Bills. "Current Research on the Language(s) of U. S. Hispanos", Hispania, 1977, volume 60, pp. 347-258. "Vernacular Chicano English: Dialect or Interference?", Journal of the Linguistic Association of the Southwest, 1977, volume 2, pp. 30-36.
 - c. Dinko Cvitanovic. "Las formulaciones dualistas en el ensayo argentino", Criterio, 1977, Volume 50, No. 1766, pp. 326-333. Review of Lomelí, Francisco and Urioste, Donald, Chicano Perspectives in Literature, in Mester, 1977, Volume VI, No. 2, pp. 121-122.

- d. Dick C. Gerdes. "Cambio de guardia: Literary Dynamics and Political Stagnation," The American Hispanist, Vol. II, 10 (1976), 4-5; "Julio Ramón Ribeyro y la realidad peruana", Arco, 191 (1976), 31-33; "Prosas apátridas, by Julio R. Ribeyro," The American Hispanist, Vol. II, 11 (1976), 12-13; "La novela colombiana, by R. Williams," Revista Interam. de Bibl., Vol. 27, 2 (abril-junio, 1977), 185-87. "Cambio de guardia: Perfil de la Política Peruana," Arco 201 (1977), 70-75. Accepted for publication: with Sabine Ulibarri, "Mexican Literature and Chicano Literature: A Comparison," Ibero-American Letters in a Comparative Perspective, eds. Wolodomyr T. Zyla and Wendell M. Aycock (Lubbock: Texas Tech U., 1977); "La tara del papa: La intrahistoria de la violencia," Aproximaciones a Gustavo Alvarez Gardezabal, ed. R. Williams (Bogotá: Plaza y Janés, 1978); "Recent Argentine Vanguard Theatre: Griselda Gambaro's Información para extranjeros," Latin American Theatre Review, 11/2 (Spring, 1978); Book: Julio Ramón Ribeyro y la ficción peruana (Lima, Peru: Instituto Nacional de Cultura, 1978).
- e. Angel González. Harsh World and Other Poems, trans. Donald D. Walsh (Princeton: Princeton University Press, 1977); Muestra, corregida y aumentada, de algunos procedimientos narrativos y de las actitudes sentimentales que habitualmente comportan (Poems) 80 pages. (Madrid: Ediciones Turner, 1977); Edition: Gabriel Celaya, poesía, introduction and selection (Madrid: Alianza, 1977); "Comentarios en torno a un poema de Antonio Machado: El viajero, retrato del artista como viejo fotógrafo," in Estudios ofrecidos a Emilio Alarcos Llorach, (Oviedo Universidad de Oviedo, 1977), I, 323-335; "Dos poemas en homenaje a Blas de Otero," Papeles de Son Armadans, CCLIV-V (1977), 205-206;

- "Thirteen Poems and Some Drawings," (translated and edited, with an introduction by M. González-Gerth) Texas Quarterly, XX (1977), 7-25;
- "Dos poemas," Inti, nos. 5-6 (Fall, 1977), 91; "Gabriel Celaya, treinta años después de Juan Laceta," Semanario Triunfo, Madrid, 1977;
- "La elegía como forma poética en Machado," Papeles de Son Armadans, (Oct. 1977), pgs. unavailable. (with A. Rodríguez)
- f. Bruno Hannemann. Book: Johann Nestroy. Nihilistisches Welttheater und verflixter Kerl. Bonn, Bouvier, 1977. Article: "Satirisches Psychogramm der Mächtigen. Zur Kunst der Provokation in Thomas Bernhards 'Der Präsident'," Maske und Kothurn, 1977, No. 2
- g. Tamara Holzapfel. Article: "Apuntes para una lectura del Quijote de Menard," Revista Iberoamericana, No. 100 (Winter 1977). With A. Rodríguez.
- h. Enrique E. Lamadrid. Textbook: Lectura y lengua; curso intermedio (co-authored with Laurel Briscoe of the University of Texas at Austin), Houghton Mifflin Company of Boston, January 1978.
- i. Byron T. Lindsey. Review of E. LoGatto, Profilo della letteratura russa, World Literature Today, Summer, 1977, Vol. 51, No. 3, p. 460; review of Iosif Brodskii, Konec prekrasnoi epoxi and Cast' reci, World Literature Today, Winter, 1978, Vol. 52, No. 1, p. (not yet available).
- j. Raymond R. MacCurdy. Book: Francisco de Rojas Zorrilla, Numancia cercada y Numancia destruida, edición crítica. Madrid: José Porrúa Turanzas, 1977.
- k. Patricia Murphy. Article: "Fabelais and Jarry" The French Review Vol. LI, No. 1, Oct. pp. 29-36. Book reviews: P. Lejeune, Le Pacte autobiographique. World Literature Today, Winter 1977. M.C. Blais, Une Liaison parisienne, World Literature Today, Summer 1977.

- l. Peter K. Pabisch. Monograph: "Anti-Heimatsdichtung im Dialekt", Dialect, special issue; Verlag A. Schendl, Vienna, 1977, 45 pgs.
Report with George Peters: "Die Deutsche Sommerschule von New Mexico in Taos", Newsletter on Education, publ. by the Goethe House, New York, 1977, 16-20.
- m. George F. Peters. Report: Bericht über die Deutsche Sommerschule von New Mexico (co-author), Newsletter on Education, Publication of the Goethe House New York, Fall 1977 (No. 5, vol. 2) pp. 16-19.
Book Review: Waseem, G., Das Kontrollierte Herz, Die Darstellung der Liebe in Heinrich Heine's "Buch der Lieder, Monatshefte, to be published 1978.
- n. William H. Roberts. Review article around Carlos Alberto Iannone, Bibliografía de Fernando Pessoa (São Paulo, 1975), Modern Language Journal, XLI: 386-387 (November, 1977). Eight chapters from my wife's and my translation, Platero and I, by Juan Ramón Jiménez, pp. 395-401 in Western Literature, Carlson and Fico, editors, 3rd ed. (New York: McGraw-Hill, 1977). Article in Colab. with Alfred Rodríguez, "The Yearning after Stone-like Insensitivity: Poetic Tradition in a Machado Poem", forthcoming in The American Hispanist, 13 ms. pp.
- o. Alfred Rodríguez. "Spanish Literature", Encyclopedia Americana Annual (1977), p. 312. "Libertad y nacionalidad en el Aben Humeya de Villaespesa," La Voz de Almería, June 30, 1977, v. 2. "El significado de lo femenino en La familia de Pascual Duarte," Revista de Estudios Hispánicos, II (1977), 251-264. (With J. Timm). "The Yearning after Stone-like Insensitivity: A Poetic Tradition in a Machado Poem," American Hispanist (Dec., 1977), pgs. unavailable (with W.H. Roberts).

- "Apuntes para una lectura del Quijote de Pierre Menard," Revista Iberoamericana, 100 (Dec., 1977), pgs. unavailable (with Tamara Holzapfel). "La elegía como forma poética en Machado," Papeles de Son Armadans, (Oct., 1977), pgs. unavailable. (with Angel González).
- n. Claude-Marie Senninger. Theophile Gautier, Histoire littéraire de la France, Editions pour Culture, Arts et Lettres, Paris, 1977, p. 139-143.
- q. Jon M. Tolman. "Brazilian Poetry 1945-1975," The American Hispanist V. 2, No. 16 (March 1977), pp. 2-8. "Luso-Brazilian Bibliography," MLA Bibliography, 1975 (in 1977), Vol. II, pp. 121-127.
- r. Jack Tomlins. Sections submitted and published in The Borzoi Anthology of Latin American Literature, ed. Emir Rodríguez Monegal and Thomas Colchie. Two volumes. New York: Alfred A. Knopf, 1977. Volume I: José de Alencar, pp. 286-293. Raul Pomméia, pp. 310-322. Volume II: Oswald de Andrade, pp. 646-651. Mário de Andrade, 651-656. João Guimarães Rosa, 676-686. Clarice Lispector, 779-792.
- s. Sabine R. Ulibarri. Mi abuela fumaba puros (Short stories) (Quinto Sol, Berkeley, 1977) 167 pp. "Los penitentes", Lectura y Lengua (Houghton Mifflin, Boston, 1977) 6 pp. "Mexican and Chicano Literature, a Comparison" (Comparative Literature Symposium, Lubbock, Texas, 1977) 28 pp.
5. Other research projects or creative work in progress or completed during period
- a. John J. Bergen. "The Semantics of Gender Contrasts in Spanish," Hispania (forthcoming).

- b. Dinko Cvitanovic. Completed: Book: Revisión de Carpentier (180 pages).
- c. Pelayo H. Fernández. Book: Estudios sobre Ramón Pérez de Ayala. Oviedo, Instituto de Estudios Asturianos, 1978, 206 pages.
Revised-enlarged version for the fourth edition of my book Estilística.
- d. Dick C. Gerdes. "La integración de tema y técnica en Sin rumbo de Eugenio Cambaceres", to be submitted to Texto crítico; "El perspectivismo en Dos viejos nánicos", to be submitted to Caribe; "The Evolution of Chicano Fiction: Three New New Mexican Novelists," to be submitted to Revista Chicano-Riqueña; and "El concepto del despojo en tres novelas andinas," to be submitted to Estudios andinos.
- e. Ángel González. Aproximaciones a la poesía de Antonio Machado, seeking publisher. "Francisco Villaespesa y el Modernismo", to appear in Estudios en homenaje a Francisco Villaespesa en el centenario de su nacimiento, Editorial Cajal, Almería.
- f. Sam Guyler. In progress: Edition with commentary of Góngora's Polifemo. Advanced Spanish Grammar book in collaboration with Dick Gerdes. Anthology of Spanish Literature for Bilingual Teachers.
- g. Bruno Hannemann. Article: "Kieb und Stich. Zur Dramaturgie und Stilistik des Zweikampfes bei Dürrenmatt." Article: "Totentanz der Marionetten, Monotonie und Manier bei Thomas Bernhard," submitted to Zeitschrift für deutsche Philologie.
- h. Robert Holzapfel. Hesse project in progress.
- i. Robert C. Jespersen. First-year German text under contract with Harner and Row will be completed this year. Article on Stefan

- Heym: submitted for publication.
- j. Natasha Kolchevska. Collaboration on book of Russian-English poetic translation.
 - k. Enrique E. Lamadrid. Revision of previously written texts in preparation of new editions of same. Research in South American Spanish to be incorporated in my texts and courses.
 - l. Byron T. Lindsey. Manuscript being read: "Is Tolstoy's Hadji Murat Tolstoyan?" Translation in preparation: two stories by Shishkov with an introduction; research on Bulat Okudzhava, contemporary Russian poet, and continuing research on contemporary Soviet art and on Dostoevsky. Article in preparation for N.M. Humanities Council on contemporary Russian cultural and intellectual life.
 - m. Raymond R. MacCurdy. Finished 28-page article: "A Critical Review of El médico de honra as Tragedy."
 - n. Patricia Murphy. Paper on "The Depiction of the Madman in 18th Century French Comedy" to be delivered at South Central Society for 18th Century Studies, Spring 1978. Book review sent to World Literature Today.
 - o. Peter K. Pabisch. Book: "H. C. Artmann: Ein Versuch über die Alogik", A. Schendl, Vienna, 1978. 150 pgs.
 - p. George F. Peters. Using German (co-author), a first-year college German text, to be published by Harper and Row, 1979.
 - q. José R. Reyna. Raza Humor in Texas. A collection and analysis of jokes in Texas, forthcoming. Modismos de Tejas. A collection of idioms from Texas (revised), forthcoming. "Notes of Tejano Music." Forthcoming in Journal of Popular Culture. (Forward)

Laurencio Peña, No me llevó la corriente, forthcoming. "Bilingual/Bicultural Education: Implications for Higher Education," a paper presented at Third Annual Spring Bilingual Conference, Texas A and I University, Kingsville, March 4, 1977. "The Evolution of Chicano Music in Texas," a paper presented at Iowa State University, April 12, 1977. "The Evolution of Chicano Music in Texas," a paper presented at the University of Iowa, April 13, 1977. "La cultura mestiza en Nuevo México," a paper presented at the University of New Mexico, November 17, 1977. Sponsored by the New Mexico Humanities Council.

- r. William H. Roberts. Hotel da Praia and other poems, Madrid: Gráficas Alocén, 1977, 70 pp. Continuing research on Fernando Pessoa, summer and fall, partly for a new graduate seminar for spring, 1978, partly for my book on King Sebastian.
- s. Alfred Rodríguez. Accepted for Culture publication in 1977: Estudios sobre la novela de Galdós, Porrúa Turiana (Madrid) in press. Poesías inéditas de Villasespa, Ayuntamiento de Almería--in press. "The Stylistic Use of French Sexual Expressions in Pardo Bazán's Los pazos de Ulloa," Hispanofila--(with J. Guttmann). "Spanish Literature", Encyclopedia Americana Annual (1978). "Tirso's Don Juan as Social Rebel," Bulletin of the Comediantes (for 1978 publication). "Poesía última de Villasespa", in Estudios en homenaje a Francisco Villasespa en el centenario de su nacimiento. Editorial Cajal, Almería, in press. "A Calderonian Resonance in Los pazos de Ullos," Romance Notes (for 1978 publication)(with N. Morgan).

- t. Claude-Marie Senninger. Research done for a book: French Writers in New Mexico. Continuation of a novel: Priere pour pieres brisees. Preparation of a gathering of short stories. Preparation of a gathering of short stories.
- u. Warren S. Smith, Jr. Paper on "The Aristeia of Periplectomenus" completed at Berkeley and subsequently revised for publication.
- v. Jon M. Tolman. Research on the contemporary Brazilian poet, Jorge de Lima (see item 2). Theory of Concrete Poetry. Haroldo de Campos, Augusto de Campos, Décio Pignatari (Brazil, transl. and edited for English). Submitted to publisher. (Whitston Press, New York).
- w. Jack E. Tomlins. Will have the following entries in forthcoming winter issue of The Literary Review (Fairleigh Dickinson University), devoted to Brazilian poetry: Manuel Bandeira, Cecília Meireles, Joao Cabral de Melo Neto, Carlos Drummond de Andrade. Another article has been submitted to Journal of the American Portuguese Society (New York): with Alfred Rodríguez, A Likely Contemporary Source for the "Damned be the first builder of ships" Topos.
- x. Sabine R. Ulibarri. In progress: Puburrupú, stories for children; "Una misma cultura, dos distintas literaturas," Grito del sol (Berkeley: Tonatiuh International) 28 pp.
- y. Rosemarie Welsh. Summary of a classroom experience: In defense of translation for study and profession.
- z. Julian E. White, Jr. Book on Comparative Romance Historical Linguistics (Phonology and Morphology in chart form). Study of -go Present Indicative (First Person) in Spanish. Study of -u- Preterite in Spanish. Study of epenthetic -v- in Portuguese

6. Activities in learned and professional societies

- a. John J. Bergen. New Mexico State Director, Sigma Delta Pi, National Hispanic Society. Organized the installation of the Mu Alpha Chapter of Sigma Delta Pi at UNM on May 5, 1977; twenty members were inducted into the chapter at that time.
- b. Garland D. Bills. Attended summer meeting of Linguistic Society of America, Honolulu, August 1977. Attended annual meeting of Linguistic Association of the Southwest, Baton Rouge, November 1977; served as president and chair of program committee. Attended annual meeting of Linguistic Society of America, Chicago, December 1977. "The Role of Theory in Doing It," a paper (presidential address) presented at the annual meeting of the Linguistic Association of the Southwest, Baton Rouge, November 1977. Attended Southwest Areal Languages and Linguistics Workshop VI, Long Beach, April 1977; served as session chair. Attended Border Linguistics Circle meeting, Las Cruces, April 1977; discussant on panel on linguistic theory. Invited participant at planning session for establishment of Native American Language Center, Santa Fe, August 1977.
- c. Dinko Cvitanovic. President of an international symposium: Simposio Internacional de Literaturas Hispánicas, University of New Mexico, October 1977.
- d. Dick C. Gerdes. Read papers at the following meetings: 1) Tenth Annual Comparative Literature Symposium, Texas Tech U., Jan., 1977; 2) Rocky Mountain Council on Latin American Studies Conference, U. of Arizona, April, 1977; 3) Kentucky Foreign Language Conference, April 1977; 4) Colloquium on Gustavo Alvarez Gardezabal, University of Kansas, April, 1977.

- e. Ángel González. "Francisco Villaespesa y el Modernismo", paper read in Ateneo de Almería for Simposio Universitario sobre F. Villaespesa, July 12, 1977.
- f. Robert Holzappel. NM AATG conference.
- g. Enrique E. Lamadrid. Northeast Conference of Foreign Language Teachers in New York Symposium (Literature) at UNM.
- h. Byron T. Lindsey. Attended annual conference of International Research and Exchanges Board and of American Association for Advancement of Slavic Studies, Washington, D.C., October 13-16; President, N.M.-El Paso Chapter, American Association of Teachers of Slavic and E. European Languages.
- i. Raymond R. MacCurdy. Appointed to Editorial Advisory Board of the Bulletin of the Comediantes.
- j. Patricia Murphy. Paper read: "Scotland and the Scots as seen in Prévost's Le Pour et Contre and in the Writings of Voltaire" American Soc. for 18th Century Studies Victoria, British Columbia, May 1977. Attended meeting of AATF Paris, France June 1977.
- k. Marshall R. Nason. Paper: "The Latin American Area Center and Research Library Resources: A Challenge for Survival", 22nd Seminar on the Acquisition of Latin American Library Materials, University of Florida, Gainesville, June 13, 1977; Chairman, National Membership Committee, Latin American Studies Association; Chairman, Panel Session on "Non-Academic Employment Opportunities for Latin Americanists, 7th National Meeting, Latin American Studies Association, Houston, Texas, Nov. 5, 1977. Representation at COACT, and White House meetings on the Panama Canal Treaties, Washington, Nov. 17-19, 1977.

- l. Peter K. Pabisch. Moderator of a panel discussion on German Literature and History since 1945-- at the 1st annual conference of WAGS, University of Arizona, Tempe, Oct. 1977. Two talks at the MLA conference, Chicago, Dec. 1977, for panel discussions: (a) Uber H. C. Artmanns Poetik (b) Anti-Heimatdichtung im Dialekt.
- m. George F. Peters. Chairman, Local Arrangements Committee, RMLLA Convention 1979.
- n. José R. Reyna. Numerous campus and community activities before coming to UNM in Aug. 1977.
- o. William H. Roberts. Attendance on special invitation at the International Symposium on Fernando Pessoa held under the sponsorship of Brown University and the Gulbenkian Foundation at Brown, Providence, R. I., Oct. 7-9.
- p. Alfred Rodríguez. "Poesía ultima de Villaespesa", paper read in Ateneo de Almería, Simposio Universitario sobre Villaespesa, July 12, 1977. "Fray Luis en Aleixandre", paper read for UNM 'Homenaje' for Nobel Prize winning Spanish poet, Dec. 2, 1977.
- q. Claude-Marie Senninger. President, New Mexico chapter of the American Association of Teachers of French, attended meeting in Paris, July 1977. President, Alliance Française of Albuquerque, attended May meeting in New York of the International Fed. of the French Alliance.
- r. Warren S. Smith, Jr. Will attend meeting of American Philological Association in Atlanta, Dec. 27-30.
- s. Jon M. Tolman. Modern Language Association Convention (Chairman of Luso-Brazilian Executive Committee, Section Chief of Luso-Brazilian Section of MLA Bibliography: chairing four meetings);

Dec. 1977. Attended and read paper at Congresso Internacional de Literatura Iberoamericana (Aug. 1977). Title of paper: "Jorge de Lima, Poeta Antropófago?"

- t. Sabine R. Ulibarrí. "Mexican and Chicano Literatures: a Comparison" paper read on International Symposium on Comparative Literature, Lubbock, Texas.

7. Other professional activities.

- a. John J. Bergen. Consultant for the UNM College Enrichment Program during the summer of 1977.
- b. Garland D. Bills. Associate Editor, Journal of the Linguistic Association of the Southwest. Evaluator of two proposals submitted to the National Science Foundation. Referee for two articles submitted to the journal Language. Outside evaluator in five tenure/promotion decisions (UCLA, UC-Santa Barbara, University of Louisville, University of Texas-Austin).
- c. Truett Book. Director of French Weekend at Glorieta. Fund raising for Alliance Française scholarship (International Festival, Museum Festival, lottery, etc.) French Conversation class for Senior Citizens. French Conversation class for nuclear physicists at Sandia Base.
- d. Dinko Cvitanovic. Radio and TV appearances (local) concerning the International Symposium on Hispanic Literatures. Consultant of several Committees of Studies at the Department of Modern and Classical Languages.
- e. Dick C. Gerdes. Member, Homenaje a Vicente Aleixandre, University of New Mexico, Dec., 1977.

- f. Robert C. Jespersen. Talk: Highland High School German classes. Attended German Weekend for High School College Students (April-Glorieta, N.M.)
- g. Natasha Kolchevska. Nov. 18, 1977, talk on Soviet women for UNM television, lecture on current cultural affairs in the Soviet Union, Nov. 7, 1977.
- h. Enrique E. Lamadrid. Consultancies: Salem Public Schools in Salem, Mass.; University of Illinois, Chicago Loop, Calvin College, Grand Rapids, Mich.
- i. Byron T. Lindsey. Special lecture: "Brezhnev's Russia: a Cultural View," Dartmouth College (Department of Russian Literature), Hanover, N.H., Jan. 12. Reader (Chekhov MSS), Slavic and East European Journal.
- j. Raymond R. MacCurdy. Consultant to the National Foundation for the Humanities.
- k. Marshall R. Nason. "The Argentine Gaucho as a Folk Hero and Culture Symbol" Pan American Round Table, Albuquerque, April, 1977; "The Latin American View of the U. S." Inaugural Program of University of Arizona TV Series entitled "Latin American Week", April, 1977; Press Conference, Panama Canal Treaties Question, Dec. 10, 1977; Moderator, discussion following lecture by Lt. Gen. Dolvin on the Military View of the Canal Treaties, Albuquerque Convention Center, Dec. 14, 1977.
- l. Peter K. Pabisch. "Die Deutsche Sommershule von New Mexico", AATG-Conference, Texas at Austin, April 1977. Co-ordinator for the 5th German Weekend at Glorieta, N.M., April 1977.

- m. George F. Peters. Workshop on Richard Wagner, Glorieta German Weekend, March 25-27. Coordinator, Goethe House Symposium "Zertifikat Deutsch als Fremdsprache," Glorieta, Nov. 4-6.
 - n. José R. Reyna. Numerous campus and community activities before coming to UNM in Aug. 1977.
 - o. Claude-Marie Senninger. April 1977, directed dramatic production of Le Parasite, by Tristan L'Hermite, 4 performances. Co-sponsor of the French weekend in Glorieta for the High School students and their teachers (March). Founder and co-director of the French Taos Summer School.
 - p. Jack E. Tomlins. Attended and participated in the national Symposium on Fernando Pessoa, Brown University, Oct. 6-8, 1977.
 - q. Sabine R. Ulibarri. Lectures: Salem, Oregon; Garden City, Kansas; Nashville; Irvine (U.C.); Tucson; Albuquerque; Estancia, Olympia; Berkeley.
8. Non-teaching University service.
- a. John J. Bergen. Acting Chairman of the Department of Modern and Classical Languages, summer 1977. Coordinator of Spanish 101 and 102. Advisor of the MATS program.
 - b. Garland D. Bills. Chairman, Department of Linguistics. Supervisor of Native American Languages program, Department of Modern and Classical Languages.
 - c. Truett Book. Advisor undergraduate French, UNM. Four doctoral theses committees.
 - d. Dinko Cvitanovic. Currently supervising five doctoral dissertations (as chairman). Chairmanship of several Committees on Studies at the Department of Modern and Classical Languages.

- e. Pelayo H. Fernández. Faculty advisor, Policy Committee Member, Moderator round table International Symposium.
- f. Dick C. Gerdes. Project Director, Lecture Series on Hispanic Culture in New Mexico, funded by New Mexico Humanities Council, 1977-78; submitted a \$120,000 proposal to fund a summer institute in Taos for bilingual teachers, summer 1978.
- g. Angel González. Executive officer for Simposio internacional de literaturas hispánicas held at UNM, Oct. 27-29, 1977.
- h. Sam Guyler. Phi Beta Kappa Selection Committee.
- i. Bruno Hannemann. Faculty advisor-German Club of UNM. Member of Policy Committee, Modern and Classical Languages. Comparative Literature Committee, Arts and Sciences; Library Committee.
- j. Robert Holzapfel. Campus Planning Committee; Chairman of Subcommittee on Landscaping Building Committee.
- k. Tamara Holzapfel. Senator at large.
- l. Robert C. Jespersen. University Senate.
- m. Enrique E. Lamadrid. On leave for entire period.
- n. Byron T. Lindsey. Director, Russian Language program; Comparative Literature Committee, Russian Studies Committee; guest lecturer (two lectures), Fine Arts College, Theatre Arts Department.
- o. Raymond R. MacCurdy. Chairman, Arts and Sciences Tenure Committee; member, Committee on Honorary Degrees.
- p. Patricia Murphy. Chairnerson, Comparative Literature Program; Continuing Education Committee, Faculty Club Board, Arts and Sciences Promotion Committee, Modern and Classical Languages Department, Policy Committee.

- q. Marshall R. Nason. Director, Latin American Center; Director, Ibero-American doctoral Program; Chairman, Title VI NDEA Fellowship Committee; Member, Latin American Task Force; Chairman, Search Committee for Latin Americanist; member, Policy Committee, Department of Modern and Classical Languages; Chairman, Senate Committee on Student Affairs and Extra-Curricular Activities; member, Faculty Senate; member, Faculty Senate Executive Committee.
- r. Peter K. Pabisch. Faculty member of the Comparative Literature program. Chairman of the Visiting Lecturer's Committee for the Humanities and Social Sciences. Ad hoc Chairman of the Committee on Interdisciplinary Studies.
- s. George F. Peters. Assistant Chairman, Modern and Classical Languages, Policy Committee. Associate Chairman, Advisor, German, Honors Council.
- t. José R. Reyna. Numerous campus and community activities before coming to UNM in Aug. 1977.
- u. William H. Roberts. Advisor to Graduate students in Portuguese, Fall, 1977.
- v. Alfred Rodríguez. Undergraduate Advisor, Spanish. Chairman, Policy Committee, Department of Modern and Classical Languages (through aug. 1977). Financial Officer for Simposio Internacional de Literaturas Hispánicas, UNM, Oct. 27-29, 1977.
- w. Claude-Marie Senninger. Member at large for Arts and Sciences of the Senate; member of Modern and Classical Languages Policy Committee; chairman of the Committee for 1977-78.
- x. Warren S. Smith, Jr. Two-year service as Chairperson of Comparative Literature ended in Aug. 1977.

- y. Jon M. Tolman. Boy Scouts, Troop 207 (Troop Committee Member); Sunday School President, LDS 7th Ward, Albuquerque East Stake.
 - z. Jack E. Tomlins. Departmental Policy Committee. Arts and Sciences Graduate Committee. Comparative Literature Committee. Undergraduate and Graduate Advisor for Portuguese. Sponsor of Presidential Scholar.
 - aa. Sabine R. Ulibarri. Department Chairman, Graduate Advisor.
 - bb. Julian E. White, Jr. French Graduate Advisor; several Committees on Studies, both chairman and member; Associate Dean, College of Arts and Sciences 050 FTE; Arts and Sciences Graduate Committee.
9. Public service.
- a. Truett Book. Neighborhood collections for Heart Fund, Cancer Drive, Muscular Distrophy drive.
 - b. Pelayo H. Fernández. Albuquerque-Gijón Sister Cities: While in Gijón arranged with City Hall the welcoming reception of the first visiting group from Albuquerque (hotel, festivals, travelling).
 - c. Robert Holzapfel. NM Wilderness Committee. Albuquerque Open Space Committee.
 - d. Enrique E. Lamadrid. Patron of the arts: symphony, opera, and museums.
 - e. Byron T. Lindsey. Amnesty International (Albuquerque group), treasurer.
 - f. Marshall R. Nason. Honorary Co-Chairman and member of Executive Committee, Committee of Americans for the Canal Treaties.
 - g. Peter K. Pabisch. Member of the scholarship committee of Edelweiss am Rio Grande, German-American Club. Special editor for "Osterreichische Diplomatische Korrespondenz", Vienna.

- h. George F. Peters. KHFM Volunteer announcer. Music Reviewer,
New Mexico Independent.
- i. José R. Reyes. Numerous campus and community activities before
coming to UNM in Aug. 1977.
- j. Alfred Rodríguez. Treasurer, Alpha Chapter, Phi Beta Kappa (UNM).
- k. Claude-Marie Senninger. Sponsor of the French for Children program
at UNM.
- l. Jack E. Tomlins. PTA Sombra del Monte School.
- m. Sabine R. Ulibarrí. New Mexican Humanities Council.
- n. Julian E. White, Jr. One of organizers and charter member of
St. Peter's Anglican church.

The Report of the Department of Philosophy
July 1, 1977 - June 30, 1978
Howard N. Tuttle - Chairman

I. General Departmental Information

A. Significant Achievements.

The following academic changes have been enacted this academic year: Our Introduction to Philosophy course is now taught in two large lecture sections per week, and one meeting per week is devoted to a discussion group managed by our TA's. This plan has replaced the old system of turning over introductory courses to our TA's entirely. We have had a small drop in enrollment in our introductory courses (Phil.110) under this system, but we anticipate a better response next year when our new system takes root. Our general enrollment continues about equal with last year's.

We have also changed the course requirements for the philosophy major. 30 hours is now required for graduation, of which 18 will be distributed as follows: 1) Ancient European philosophy, 2) Early Modern European philosophy, 3) symbolic logic, 4) ethics. There is now a choice allowed between metaphysics and epistemology. Also a student must take one seminar on either a great philosopher or a philosophical movement. 12 hours will be elective on the 300 or above level.

The requirement for the Ph.D. has been changed slightly. Three seminars in ethics, metaphysics and epistemology will be required for the Ph.D. The seminar

requirement in logic was dropped. Instead, a candidate must pass philosophy 356 (advanced symbolic logic) with a B or better.

We have tightened up our teaching schedule for the faculty in philosophy. We have determined that certain of our offerings will be taught on a strict basis by semester, yearly, and once every two years. The chair will see that this schedule is followed. This allows us more order and provides more responsibility to students.

Professor Ted Sturm will be acting chairman for 1978-79, to replace Prof. Tuttle who will be on an exchange teaching arrangement in Duisburg, West Germany.

Prof. Helmut Girndt will come to our department for one year in exchange with Prof. Tuttle who will go to the University of Duisburg, West Germany to teach.

Our distinguished visiting professor for 1978-79, will be Haig Katchadourian from the University of Wisconsin. He replaces Prof. Paul Schmidt of our department who will be on leave.

Our department has added two new courses entitled Philosophical Problems of Legal and Medical Ethics and Philosophical Problems of Business and Engineering Ethics.

There were no academic promotions in our department.

B. Significant Plans:

The Department of Philosophy has arranged for a one-half time person to serve in the department as a teacher of philosophy. The other half of his service is funded by the

John Muir Institute. Prof. Eugene Hargrove will be editor of the Muir Institute Journal, The Journal of Environmental Ethics. This journal will be based at U.N.M. This is a significant edition to our academic horizon. Prof. Hargrove's appointment is half-time adjunct assistant professor. This appointment is not fully instrumented because we are awaiting finalization from the John Muir Institute.

C. Appointments to the Staff.

In addition to the above we have hired Prof. Andrew Burgess as an Assistant Professor to teach in our religious studies department minor program. He is a scholar with excellent background and publications. He is a graduate of Union Theological Seminary and Yale Graduate School.

In the academic year 1977-78, Joyce Trebilcot of Washington University at St. Louis received a \$25,000 grant from U.N.M. funds to come to our department as a "distinguished professor." She taught courses in "feminist philosophy" also in conjunction with the Women's Studies group. Her class enrollment was small, and she taught 6 hours per semester. In my opinion such a venture was a tragic waste of money for U.N.M. Such a subject as feminism is not a philosophic or academic discipline. It's major administrative and social function is the creation of jobs for ideologists. I am only sorry that she was hired by a minority of faculty members while I was away in the summer, and I heard nothing of the matter until after it was done. I would like it on public

record that I personally protest this University's use of public funds for such an appointment. I can do no other.

D. Separations from the Staff

Professor Carl Stern, who did not receive tenure, will leave this department at the end of the summer.

II. Composite Information from Biographical Supplements.

1. Advanced study.

a. Charlene McDermott - summer session intensive Spanish course.

2. Sabbatical leaves.

a. Prof. Russell Goodman - academic year 1977-78.

b. Prof. Fred Schueler - academic year 1977-78.

3. New Scholastic honors, fellowships, etc.

None

4. Publications.

Casalis:

Review of Tatarkiewicz, Analysis of Happiness, Choice, Apr. 77, p. 295-6.
Review of Petrement, S. Weil, Choice, Jul. 77, pp.79-80.
Review of Eliade, No Souvenirs, Choice, Sept. 77, pp. 93-94.
Abstract of "The Discourse of Penthouse, Language and Behavior Abstracts, Jul. 77, vol. 11, Nr.2, p.499
"Metonymy and Metaphor in Haiku", Proceedings of the First SSA Conference.

Goodman:

"Meneius & Wittgenstein: Toward a Theory of Ethics" in Selected Papers in Asian Studies, Vol. III, Boulder, Colo.

Lee:

"Marxist Communism and the Growth of World Solidarity," in Goals for Mankind; Erwin Lasslo, et al. : A Report to the Club of Rome on the New Horizons of Global Community, Dutton, 1977, pp. 403-406.
Review of Marjorie Grene, Philosophy in and out of Europe, Choice, March 1977.
Review of Carl Boggs, Gramsci's Marxism, and Alex Callinicos, Althusser's

- Lee (cont). Marxism, Choice, May, 1977.
Review of Louis Althusser, Essays in Self-Criticism, Choice, Nov. 1977.
- McDermott: "Logic Direct Awareness as means of Valid Cognition," in Buddhist Meditation Theory and Practice, Univ. of Hawaii Press, 1977. "A Comparistic Investigation of the Awareness of Dikkha according to the Buddhist pramana theorists and Contemporary Western psychologists," PEW, Oct. 1977, pp.433-445. Spanish translation of #2 in Proceedings of International Conference of Orientalist, untitled, 1977.
- Schmidt: "Religious Utterances Are Not Empirical Claims," in Reading for an Introduction to Philosophy ed. by J. R. Hamilton, E.E. Reagan, and B. R. Tilghman, New York, Macmillan, 1976. pp. 473-480
Review of Brand Blanshard: Reason and Religion in The Humanist, Vol. 37, Sept.-Oct.1977, pp. 50-51.
- Schueler: "Moral Scepticism," The Southern Journal of Philosophy (Spring, 1977).
- Sturm: "Afro-Brazilian Cults" in African Religions: A Symposium, edited by Newell S. Booth, New York: NOK Publishers, 1977 (pp.217-239).
- Tuttle: Review of H. G. Godaner's Hegel's Dialectic. Review of Metaphysics March 1977, vol. XXX, No. 3.
Review of Wilhelm Dilthey's Selected Writings, trans. H. P. Rickman, Choice, April 1977.
Review E.M. Casey's Imaging, May 1977. Choice .
Review A.Levine's The Politics of Autonomy, Rev. of Metaphysics, vol. XXI, No. 1, p. 121.
Review R. Makkreel Dilthey Rev. of Metaphysics, vol. XXX, No. 1 pp.132-133.
Article: "The Lived Experience", Social Research, Vol. 43, No. 3, pp. 531-34.

5. Other Research Projects or Creative Works.

- Casalis: Evangelina, Manuscript submitted for publication.
"A Contribution to the critique of Religious Alienation", submitted for publication.
"La foudre", submitted for publication.
"Semiology and Semiotics of Haiku", forthcoming, SEMIOTICA.
"Hermeneutics, Death of God...", Forthcoming, Selected Studies in Phenomenology... (The Hague: Nijhoff).
- Eilstein: Book: "Futurity and Possibility," in progress.
- Goodman: Completed drafts of 2 papers: "Schopenhauer and Wittgenstein on Ethics" and "Wittgenstein and Kierkegaard".
Research for book on Wittgenstein and Ethics.
- Lee: Review of Martin Seliger, The Marxist Conception of Ideology, submitted to Choice Sept. 1977.
Review of Adolfo Sanchez Vasquez, The Philosophy of Praxis, submitted to Choice, Nov. 1977.
Article, revision completed, The Marxian View of the Relationship Between Man and Nature, manuscript pages, 27, to be submitted for publication.
- McDermott: Historical research in the metaphysical foundation of a philosophy of medicine. A comparative study of logic as organon for the defense of the faith, utilizing Latin and Sanskrit sources.
An analysis of Boetius of Denmark's philosophical grammar in the light of Wittgenstein's philosophy of language.
- O'Neil: Article: "Substance and Substratum" out for consideration.
- Schmidt: Continuing book entitled The Aesthetics of Existing, one-half finished.

- Schueler: Papers in final form: "Harman on Moral Relativism," "Evaluations and Directives," "'X's reason for Being was p'", "Exclusionary Reasons," Papers in rough draft form: (1) a paper giving a 'practical reasons' analysis of the moral concepts of right & wrong. (2) a paper arguing that moral knowledge is best thought of as a form of a posteriori knowledge. (3) A paper explaining and attempting to resolve The Tension between the idea that moral evaluations are 'action guiding' and the idea that they are capable of being true or false.
- Sturm: "Chinese Buddhism" in Chinese Thought: An Introduction, edited by Donald Bishop (in press).
 "Dependence & Originality in Iberoamerican Philosophy" in Dependence & Independence in Latin American Societies, edited by Walter Redmond (in press).
 Early Confucian Thought and the Origins of Chinese Humanism" in Chinese Humanism, edited by Paul K. T. Sih (in press).
 "Foundations for a New Era: Philosophical Vocation of Farias Brito" in Annals del IX^o Congreso Interamericano de Filosofia (in press).
- Tuttle: Book: They: Heidegger & Schutz (in progress).
6. Activities in Learned and Professional Societies.
- Goodman: Presented paper on "Wittgenstein and Ethics" at American Philosophical Association, Pacific Division meeting, Portland, Oregon, March 1977.
- Lee: Treasurer, UNM, Chapter of AAUP.
- McDermott: Invited participant - Young Scholars Conference on Comp. Religion, May, Berkeley, CA:
 Guest Lecturer, Univ. of Indiana, Bloomington, March 1977.
 Panelist - WCAAS - U.S. Airforce Academy, Colorado, October 1977.
 Elected to Executive Comm.-WCAAS;
 elected to Executive Board, APA.

- Schueler: Participated in a 5 week "Institute on Law and Ethics" held at Williams College, Williamstown, Mass. Sponsored by the Council for Philosophical Studies.
- Stern: Attended New Mexico-West Texas Philosophical Society annual meeting. Re-elected Secretary/Treasurer of above organization.
- Sturm: South-Central Organisation for Latin-American Studies: "Socio-Political Significance of Afro-Brasiliain Cults"; Assn. Asian & Comparative Philosophy: "Confucianism & Chinese Humanism"; IX Interamer. Congress of Philosophy: "Foundations for a New Era: Philosophical Vocation of Farias Brito" (Member U.S. delegation to Interam. Society for Philosophy); American Assn. for Chinese Studies (member: Board Dir.; Ch. edit. comm): "Early Confucian Thought & the Origins of Chinese Humanism"; Society for Latin American Thought; Eastern Div. Amer. Philos. Assn.
- Tuttle: Paper: "Some Questions in R. G. Collingwood New Mexico-West Texas Philosophical Society, April 16, 1977. Vice President of N. M. West Tex. Society.

7. Other professional activities.

- Lee: Attendance of "Seminar on the Sutras" at the Zen Center at Mt. Baldy, Calif.; gave invited talk "What is Religion; Marxism and Buddhism", 2 week, Summer 1977.
- Schueler: Panel member, "Abortion, The Issues," NMHC sponsored program held at Albuquerque Convention Center and at N. M. Tech. and televised over KOAT TV and later in Las Cruces (all in spring, 1977).
- Stern: Talk on "Men's Liberation" to a Women's Suffrage Anniversary Workshop.
- Sturm: Visiting lecturer for Human Development: St. Mary's College
- Tuttle: Spinoza, Experiment in Jewish Learning, Dec. 14, 1977.

8. Non-teaching University service.

Casalis: Member of A & S Promotion Comm.(Humanities)
Member of screening committee for the
position in Religious Studies.
Member of several graduate student's
committees.

Eilstein: Member of GAC Committee, Philosophy
Dept., Fall 1977.

Goodman: Faculty Senator, member, Academic
Freedom and Tenure Committee.

Lee: Philosophy Dept. Undergraduate Advisor
and Honors Advisor.

McDermott: Chairperson, Graduate Advisory Comm.;
Tenure; University Senate; Member-
Undergraduate Affairs Committee;
Member-Committee to assess Comp. Lit.
Acting Department Chairperson-Summer 77.
Chairperson-Asian Studies Minor; Assoc.
member-Linguistics Dept.; Acting
Chairperson-Tenure Comm. Dec. 1977.

O'Neil: Departmental Graduate Advisor and
Coordinator; member A & S graduate
committee; chair, subcommittee on
graduate review; member, Student
Standards and Grievance Committee.

Schmidt: Elected member of the Honorary Degree
Comm. Member of University Press Comm.

Sturm: Faculty Senate; Senate Comm. on
Graduate Program & Standards; A & S
Comm. on Interdisciplinary Majors;
Departmental Graduate Advisory Comm.
Univ. Comm. on Asian Studies; Faculty
Advisory, Nichiren Shoshu.

Tuttle: Chairman: Department of Philosophy

9. Public Service.

McDermott: Volunteer work at Shelter for Battered
Women. Lecture presented to Santa Fe
chapter of AAUW-April 6, 77.

O'Neil: Supportive activities at own church.

Sturm: Indian Pueblo Culture Center (Bd. of
Drs. of the Friends of IPCC;
Education Chairman; Docent); NMSO
(volunteer work for Friends of NMSO);
Member, Segunda Iglesia Congregacional;
Ministerial assistance, Unitarian Church;
Int'l Host Family Program.

Tuttle: Boy Scouts

10. Personal information.

None.

The Report of the Department
of Physics and Astronomy

July 1, 1977 - June 30, 1978

Victor H. Regener, Chairperson

I. General Departmental Information

A. Significant Achievements During the Academic Year 1977-78

1. Departmental Operation

The following table shows student credit hours (averages for Semester I and Semester II) for this department over the last four years, the number of graduate students in the department (including Los Alamos courses) and the number of degrees granted. Campus faculty of this department did not contribute to teaching at the Los Alamos Graduate Center during the report year.

Student Credit Hours, Physics and Astronomy

(Average, Semesters I, II)

<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
6,250	6,423	5,933	5.734 ⁽¹⁾
Change +2.8%	-7.6%	-3.4%	

⁽¹⁾ Semester I

Number of Graduate Students Enrolled⁽¹⁾

(Semester I Figures)

<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
46	45	57	49

Number of Degrees Granted

	<u>May 1975</u>	<u>May 1976</u>	<u>May 1977</u>	<u>May 1978</u>
BS Physics	4	3	5	9
BS Astrophysics	1	1	2	1
M.S., Physics	2	3	3	6
Ph.D., Physics	7	1	3	8

Appendix A gives names of Seniors and census information regarding their future plans, as well as similar information on recipients of M.S. and Ph.D. degrees.

Sponsored Research Grants and Contracts

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
(1) Departmental Budget, UNM	\$493,668	\$541,000	\$602,100	\$651,600
(2) Money for grants and contracts received during the year from outside sources	240,500	330,880	290,877	442,290
(3) Overhead to University from grants and contracts	36,140	48,000	46,699	
(4) Active grants and contracts at end of year	760,479	699,370	980,000	1,388,805

⁽¹⁾ Includes enrollment at the Los Alamos Graduate Center

Current Sponsored Research
Support by Faculty and
Sponsoring Agency

Faculty	Agency	Amount received in 1977/78	\$ of Ongoing research in 1977/78
Beckel	NIH	10,420	31,905
	AFOSR	44,070	84,800
Bryant	DOE	50,000	106,000
	DOE	66,000	126,000
Dieterle } Leavitt } Wolfe }	DOE	200,000	665,000
King	NSF		11,700
Linsley	NSF	65,000	263,700
Peterson	NSF		33,000
Regener } Swinson }	NSF		50,300
Zeilik	NSF		10,200
	EXXON	6,200	6,200
Total		\$442,290	1,388,805

Changes in course offerings during 1977-78 were as follows:

Additions:

Physics 104, 105 (3,3) Physics and Society.

Astronomy 111L (1) Astronomy Laboratory.

Deletions:

Physics/Astronomy 547 (3) Selected Topics in High Energy Astrophysics.

New cross-listings:

Physics/Nuclear Engineering 435 (3) Introduction to Plasma Physics.

Physics/Nuclear Engineering 480 (3) Advanced Concepts in Plasma Physics.

B. Significant Plans and Recommendations for the Near Future

We need to have the three "special" laboratory assistantships (given to us last year) converted into regular graduate assistants for a total of 18, and we need another substantial increase in regular assistantships to further improve the quality of our undergraduate teaching effort.

The continued lack of an adequate and regularly budgeted amount for equipment purchases continues to be a serious impediment to the progress of the departments instructional activities.

C. Appointments to Faculty

The faculty was joined on July 1, 1977 by Dr. McAllister Hull, Professor of Physics, Provost of the University.

Dr. Claude Amsler was appointed Research Assistant Professor.

Dr. Colston Chandler and Dr. James D. Finley III were promoted to the rank of Professor for 1978-79.

Dr. John Howarth, Professor of Physics and Director of General Honors, resigned at the end of the year 1977-78.

John W. McLean, Instrument Maker, retired at the end of the year 1977-78.

Appendix A

(1) Information on Graduating Seniors

The following list gives names and permanent addresses of Seniors enrolled in Semester II of 1977/78, as well as their plans upon graduation.

Key: (1) Expected graduation;

(2) Plans to continue education at institution and in field shown;

(3) Plans to look for work upon graduation or has job offers as shown.

Name, Address	(1)	(2)	(3)
Scott F. Anderson 2333 Brickel Ave. Miami, Fla. 331131	Dec. 1978	Yes, in Astr.	no
Arian L. Pregenzer P.O. Box 1185 Corrales, N.M. 87048	May 1978	Yes, in Physics U.C. San Diego	Yes, in summers
Richard D. Bolton 331 Mimbres Dr. Los Alamos, N.M. 87544	May 1979	Yes	Yes, in summer 1979. Summer 1978: Tech. Aide at LASL
John K. Cannizzo 1420 S. Whittier Deming, N. M. 88030	May 1979	Yes, in Astr.	Research at observatory
Michael Wester 1801 Quincy, SE 87108	May 1978	Yes, in Math.	Not yet

	(1)	(2)	(3)
Donald Doerner 98 Star Route Sandia Park, N.M. 87047	May 1978	Yes, in Math	Yes, Argonne Nat'l Labs, Illinois Summer
Jim Bailey 3813 A Thaxton, SE Albuq, N.M.	May 1978	Yes, UCI, in Physics	
Carolyn McMillen 1816 Gold SE Albuq, N.M. 87106	May 1978	Yes, in high energy physics	Yes, SLAC
Joe A. Martin 1040 Westerfeld NE Albuq, N.M. 87112	May 1979	Yes, in Physics	Not yet
Jeffrey S. Knowlton 3805 Camino Sacramento NE Albuq, N.M. 87111	Aug 1978	Yes, Physics/ Math. UNM	No
William M. Folkner 916 Jefferson NE Albuq, N.M. 87110	May 1978	Yes, Physics Univ of Washington	No
Kevin Cottage 8104 Palo Duro NE Albuq, N.M.	May 1979	Unsure	Yes
Tony J. Buchen 1025 Nugget Los Alamos, N.M. 87544	May 1978	Yes, in Physics UNM	Yes, in summers
Michael DiSanti P. O. 214 San Cristobal, N.M. 87564	May 1978	Yes, in Physics UNM	No
Diane Slack 2812 Cuervo NE Albuq., N. M. 87110	May 1978	No	Yes, UNM
Riki Darling U. of Colorado Boulder, Colorado	May 1978	Yes, in Physics	Yes, summers

(2) Information on Recipients of M.S. and Ph.D. degrees

M.S. degrees, May 1978

Paul R. Findley
1221 Evergreen Lane
Port Hueneme, CA 93041

Working on Ph.D. at U. C., Santa Barbara

Linda S. Bayliss
1215 Chiquitos Rd.
Bosque Farms, N. M. 87068

Working on Ph.D. at UNM

Marilyn Glaubenskleee
802 W 29th St
Pueblo, Colorado 81008

Carl A. Huguley
4517 Shiloh Pl. NE
Albuquerque, N.M. 87111

Optical Physicist, AF Weapons Lab, Kirtland

Declan A. Reib
2919 Carolina NE
Albuquerque, N.M. 87111

Physicist, Dikewood Corp., Albuquerque, N.M.

Erik J. Schwendeman

Ph.D. Degrees, May 1978

Ted Rupp
609 Calle Valdez
Santa Fe, N. M.

Physicist, Edgerton, Germeshausen, & Grier
(EG&G), at Los Alamos

Roger Carlini
1500 Clancy Dr., NE
Albuquerque, N.M. 87112

Department of Physics, University of
Washington, Seattle, Washington

Michael J. Costello
532 Concha
Altadena, California 91001

Jet Propulsion Labs
4800 Oak Grove Drive
Pasadena, California 91103

Richard Kant
1503 Gold Ave. SE
Albuquerque, N.M. 87106

Naval Research Labs, Washington, D.C. 20375

Hassan Sharifian
101 Asrar St.
Mashad, Iran

Physics Dept., Faculty of Sciences,
U. of Ferdosi, Mashad, Iran

Hossein Tootoonchi
2 Niloofar-Ghaem Street
Mashad, Iran

Physics Dept., Faculty of Sciences,
U. of Ferdosi, Mashad, Iran

Alan Dudley
6001 Kingston NE
Albuquerque, N.M. 87109

P.T. Lecturer, UNM; Consultant to various
research firms

Willard Thomas
1629 Hogle NE
Albuquerque, N.M. 87112

Science Applications, Inc.,
2201 San Pedro NE, Albuquerque, N.M.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study

Michael Zeilik, II

American Studies 651 (Supervisor: Joel Jones). Workshop on College Science Teaching (NSF-AAAS); Workshop on Astronomy Teaching (AAS).

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Harjit S. Ahluwalia

Participated and presented papers at:

- 1) XV International Conference on Cosmic Rays held at Plovdiv, Bulgaria, on August 13-26, 1977.
- 2) Solar-Terrestrial Physics Group Meeting at Plovdiv on August 18, 1977.

Seymour S. Alpert

Conference on Optical Signal Processing, Stanford University, California November 14-15, 1977.

Howard Bryant

3 weeks in California, 1 week in New Hampshire, 3 days in Tennessee.

Colston Chandler

Sabbatical Beginning June 1977.

Christopher Dean

Sabbatical leave, Semester I, 1977/78.

Byron D. Dieterle

Sabbatical: Jan-July 1977 at TRIUMF cyclotron, University British Columbia, Canada. July-December 1977 at University of New Mexico, Brookhaven National Laboratory, New York. Visits to Stanford University, University of California at Irvine (UCI), UC Riverside, UC Berkeley, and Temple University at Philadelphia.

Joey B. Donahue

- 1) "Workshop on Low Energy Separated Beams", Brookhaven National Laboratory, Upton, New York, March 1977.
- 2) "II International Conference on the Nucleon Nucleon Interaction", University of British Columbia, Vancouver, B.C., Canada, June 1977.
- 3) "IEEE Nuclear Science Symposium", San Francisco, California, October 1977.

J.D. Finley, III

Travel to Mexico City from May 25 to June 10, for work with Dr. Jerzy Plebanski, Centro de Investigaciones y Estudios Avanzados del IPN; Travel to Austin, Texas, to give colloquium, May 24, at University of Texas on "Spinorial Structures & Complex Manifolds."

John Linsley

Attended 15th International Cosmic Ray Conference, Plovdiv, Bulgaria, August 13-26.

Alan W. Peterson

Visited NSF in Washington D.C. in November 1977 at my own expense.

Derek B. Swinson

Travel to Bulgaria to attend the 15th International Cosmic Ray Conference, August 1977.

David M. Wolfe

Made numerous trips to Brookhaven National Laboratory and to TRIUMF in Vancouver B.C. to further the progress on Experiment #701. Alternating Gradient Synchrotron, BNL, Upton, New York.

Michael Zeilik, II

Observing trips to Kitt Peak; attended NATO School on Infrared Astronomy, Erice, Sicily; TIPS Workshop, Duke University (Exxon Education Foundation).

3. New scholastic honors, fellowship, etc.

J.D. Finley, III

Elected to membership in SE.

John Linsley

Elected member, American Astronomical Society.

Michael Zeilik, II

Harlow Shapley Memorial Lecturer for the American Astronomical Society; elected Fellow of the Royal Astronomical Society.

4. Publications

Harjit S. Ahluwalia

1) Solar Anisotropies of Cosmic Rays. A final report submitted to the National Science Foundation on completion of work performed under NSF Grant #ATM 74-16328, on January 23, 1977.

2) A Report on International Cosmic Ray Symposium on High Energy Cosmic Ray Modulation. Presented at the STIP Business Meeting at the Leendert Dirk de Feiter Memorial Symposium on the Study of Travelling Interplanetary Phenomena (STIP) at Tel-A-Viv, Israel, June 7-10, 1977.

3) Investigations of Solar Daily Harmonics of Cosmic Rays and Related Problems. A research proposal submitted to the National Science Foundation in January 1977.

4) Solar Terrestrial Relationships of Cosmic Ray Intensity Changes During the Forbush Decrease of November 16, 1966. Fifteenth Intern. Conference Cosmic Rays, Plovdiv. Conference papers (Bulgarian Academy of Sciences), 3, 374, 1977.

5) On Long Term Changes in the Parameters of Cosmic Ray Daily Harmonics. Fifteenth Intern. Conf. Cosmic Rays, Plovdiv. Conference Papers (Bulgarian Academy of Sciences), 4, 24, 1977.

6) Do Coronal Holes Influence Cosmic Ray Daily Harmonics? Fifteenth Intern. Conf. Cosmic Rays, Plovdiv. Conference Papers (Bulgarian Academy of Sciences), 4, 25, 1977.

Charles L. Beckel

- 1) "An Energy Gradient MO Study of the Effects of Protonation on Phosphate Ion Conformation" a paper presented at the International Symposium on Quantum Biology and Quantum Pharmacology, Sanibel Island, Florida, 10 January 1976. (co-author, E.S. Hertel, Jr.)
- 2) "Theoretical Energy Gradient Study of Five-Membered Rings," a paper presented at the 32nd Symposium on Molecular Spectroscopy, Columbus, Ohio, June 14, 1977. (co-author, A.R. Hashemi-Attar).

Howard C. Bryant

- 1) "A Solar Pond for London?", co-author, Ian Colbeck, Solar Energy 19, 321 (1977).
- 2) "Observation of Resonances Near 11 eV in the Photodetachment Cross Section of the H^- Ion," Phys. Rev. Letters 38, 228 (1977). Co-authors: H.C. Bryant, B.D. Dieterle, J. Donahue, H. Sharifian, H. Tootoonchi, D.M. Wolfe, P.A.M. Gram, M.A. Yates-Williams.
- 3) "Optical Transforms of the Alphabet," The Physics Teacher 15, 301 (1977). Co-authors: H. Sharifian, H. Tootoonchi, J.D. Seagrave.
- 4) "Observation of Resonances in the Photodetachment Cross Section of the H^- Ion Near 11eV," presented by H. Tootoonchi at the Southwest Regional Conference for Astronomy and Astrophysics, May 22 & 23, 1977, Austin, Texas. Co-authors: J. Donahue, P.A.M. Gram, J.C. Pratt, M.A. Yates-Williams, H. Tootoonchi and H. Sharifian.
- 5) "Preliminary Results of a Measurement of the H^- Photodetachment Cross Section in the continuum Region," presented by H. Sharifian at the Southwest Regional Conference for Astronomy and Astrophysics May 22 & 23, 1977, Austin, Texas. Co-authors: J. Donahue, P.A.M. Gram, J.C. Pratt, M.A. Yates-Williams, H. Tootoonchi and H. Sharifian.
- 6) "The Effect of Electric and Magnetic Fields Upon Resonances in the H^- Photodetachment Cross Section" presented by P.A.M. Gram at the International Conference on Multiphoton Processes, Rochester, June 6-9, 1977. Co-authors: J.C. Pratt, M.A. Yates-Williams, J. Donahue, H. Sharifian, H. Tootoonchi.
- 7) "Photodetachment Studies on a Relativistic H^- Beam," invited talk at "Atomic Physics" Gordon Conference July 4-8, 1977, Wolfeboro, New Hampshire.
- 8) "Operation and Maintenance of a Salt Gradient Solar Pond," presented by Federica Zangrando at Helioscience Institute Conference, Palm Springs, Calif., May 1-4, 1977.
- 9) "Photodetachment Studies on a Relativistic H^- Beam," invited paper (30 minutes), 9th Annual Meeting of the Division of Electron and Atomic Physics, Knoxville, Tenn., 5-7 December 1977, Bull. Amer. Phys. Soc. 22, 1 Dec. 77, p. 1319.
- 10) "Heat Extraction from a Salt Gradient Solar Pond", presented by Federica Zangrado at the International Conference on Alternate Energy Sources, Miami Beach, Florida, Dec. 5-7, 1977.

Colston Chandler

C. Chandler and A.G. Gibson, N-Body Quantum Scattering Theory in Two Hilbert Spaces, I. The Basic Equations, J. Math. Phys., 18, 2336 (1977).

Byron D. Dieterle

1) "Observation of Resonances near 11eV in the Photodetachment Cross Section of the H^- Ion", Physical Review Letters, 38 228 (January 31, 1977).

2) "Elastic np Scattering", Invited paper published in the "Proceedings at the 2nd International Conference on the N-N Interaction", June 1977.

3) "Charged Pion Production from Neutron-Proton Collisions at 790 MeV," Contributed to 2nd Int. Conf. on the Nucleon-Nucleon Interaction", Vancouver, BC, Canada, June 1977.

All supported by DOE contract for \$500,000, "N-N interactions", 4 years.

Joey B. Donahue

1) "Observation of Resonances near 11 eV in the Photodetachment Cross Section of the H^- Ion", Physical Review Letters 38, 228 (1977), with H.C. Bryant, B.D. Dieterle, H. Sharifian, H. Tootoonchi, D.M. Wolfe, P.A.M. Gram and M.A. Yates-Williams.

2) "The Effect of an Electric Field Upon Resonances in the Photodetachment Cross Section of the H^- Ion near 11 eV", Physical Review Letters 40, 107 H.C. Bryant, H. Sharifian and H. Tootoonchi.

3) "Observation of Resonances in the Photodetachment Cross Section of the H^- Ion near 11 eV". Proceedings of the Southwest Regional Conference for Astronomy and Astrophysics, p. 51 Vol. III, Preston F. Gott & Paul F. Riherd, co-editors, Austin, Texas, May 1977 (ISSN-0147-2003), with H. Tootoonchi, H.C. Bryant, H. Sharifian, P.A.M. Gram, J. Pratt, and M.S. Yates-Williams.

4) "Preliminary Results of a Measurement of the H^- Photodetachment Cross Section in the Continuum Region", Proceedings of the Southwest Regional Conference for Astronomy and Astrophysics, p. 47, Vol. III, Preston F. Scott & Paul F. Riherd, co-editors, Austin, Texas, May 1977 (ISSN-0147-2003), with H. Sharifian, H.C. Bryant, H. Tootoonchi, P.A.M. Gram, J.C. Pratt and M.A. Yates-Williams.

5) "The Effect of Electric and Magnetic Fields Upon Resonances in the H^- Photodetachment Cross Section", talk presented by P.A.M. Gram at the International Conference on Multiphoton Processes, Rochester, New York, June 1977, with P.A.M. Gram, J. Pratt, M.A. Yates-Williams, H.C. Bryant, H. Sharifian and H. Tootoonchi.

J.D. Finley, III

"Spinorial Structures & Electromagnetic Hyperheavens," J. Math. Phys. 18 1662 (1977); "Separation of Wave Equations for Perturbations of General Type-D Space-Times," Physical Review Letters 38 1505 (1977); Review of E.J. Flaherty's Book, "Hermitian Kahlerian Geometry in Relativity," pub. in Math. Reviews 53 2115 (1977).

John L. Howarth

Radiosensitivity of T and B lymphocytes IV. Effect of whole body irradiation upon various lymphoid tissues and numbers of recirculating lymphocytes. *J. Immunol.* 118, 1191-1200

1977. Co-authors: R.E. Anderson, G.B. Olson, J.R. Autry, G.M. Troup, P.H. Bartels. Four poems in Southwest Women's Poetry Exchange, No. 4, Jan., 1977. Poem in Southwest Women's Poetry Exchange, No. 6 Oct., 1977.

David S. King

1) Revised Masses for the Double-Mode and Bump Cepheids, *Astrophysical Journal Letters* 214, L127 (1977). Co-Authors; A. Cox, R. Deupree and S. Hodson.

2) Double-Mode Cepheid Period Ratios from Linear and Nonlinear Theory, *Astrophysical Journal* (in Press) 1978. Co-Authors; A. Cox and S. Hodson.

3) Cepheid Masses Using Inhomogeneous Envelopes, *Bull. Am. Astro. Soc.* 8, No. 4 559 (1976). Co-Authors: A. Cox, R. Deupree and S. Hodson.

4) A Possible Solution for the Double-Mode Cepheid Mass Anomaly, *Bull. Am. Astro. Soc.* 8, No. 4, 559 (1976). Co-authors: A. Cox, R. Deupree, and S. Hodson.

5) Period Ratios for Double-Mode Cepheids from Linear and Nonlinear Theories, *Bull. Am. Astro. Soc.* 9, No. 2, 359 (1977). Co-authors: A. Cox and S. Hodson.

6) The Masses of the Triple-Mode Pulsators AC Andromedae and TU Cassiopeiae, *Bull. Am. Astro. Soc.* 9, No. 2 360 (1977). Co-authors: A. Cox and S. Hodson.

C.P. Leavitt

1) "Charged Pion Production from Neutron-Proton Collision at 790 MeV", Paper presented at the II International Conference on the Nucleon-Nucleon Interaction, University at British Columbia, Vancouver B.C. Canada June 1977, with W. Thomas, C. Cassapakis, B. Dieterle, D.M. Wolfe, M. Evans, G. Glass, Mohavir Jain, L. Northcliffe, B. Barner, J. Simmons.

John Linsley

1) "Measurement of Light Emission from Remote Cosmic Ray Air Showers", *Phys. Rev. Letters* 39, 847-9 (1977), with H.E. Bergeson, G.L. Cassiday, T.W. Chiu, D.A. Cooper, J.W. Elbert, E.C. Loh, D. Steck, W.J. West and G.W. Mason.

2) "Observations of Extensive Air Showers by Air Fluorescence. Description of Experimental Techniques", *Proc. 15h ICCR* 8, 252-7 (Plovdiv 1977), with G.W. Mason, H.E. Bergeson, G.L. Cassiday, T.W. Chiu, D.A. Cooper, J.W. Elbert, E.C. Loh, D. Steck, W.J. West and J. Boone.

3) "Observations of Extensive Air Showers by Air Fluorescence. Sensitivity Tests and Results", *Proc. 15th ICCR* 8, 258-63 (Plovdiv 1977), with G.L. Cassiday, H.E. Bergeson, T.W. Chiu, D.A. Cooper, J.W. Elbert, E.C. Loh, D. Steck, W.J. West, G.W. Mason and J. Boone.

- 4) "Observations of Extensive Air Showers by Air Fluorescence. Results of the Measurements", Proc. 15th ICCR 8, 265-9 (Plovdiv 1977), with J.W. Elbert, H.E. Bergeson, G.L. Cassiday, T.W. Chiu, D.A. Cooper, E.C. Loh, D. Steck, W.J. West, G.W. Mason and J. Boone.
- 5) "Rate Estimates for Proposed Experiments Using the Fly's Eye Air Fluorescence Detector", Proc. 15th ICCR 8, 270-4 (Plovdiv 1977), with J.W. Elbert, H.E. Bergeson, G.L. Cassiday, T.W. Chiu, D.A. Cooper, E.C. Loh, D. Steck, W.J. West, G.W. Mason and J. Boone.
- 6) "Structure of Large Air Showers at Depth 834 g cm⁻². Average Lateral Distribution as a Function of Size and Zenith Angle", Proc. 15th ICCR (Plovdiv 1977) paper EA 55, to be published.
- 7) "Structure of Large Air Showers at Depth 834 g cm⁻². Fluctuations", Proc. 15th ICCR (Plovdiv 1977) paper EA 56, to be published.
- 8) "Structure of Large Air Showers at Depth 834 g cm⁻². Applications", Proc. 15th ICCR (Plovdiv 1977) paper EA 104, to be published.
- 9) "Review of Data on Cosmic Ray Anisotropy, 1951-65, Energy 10¹⁴ to 3.10¹⁷ eV", Proc. 15th ICCR (Plovdiv 1977) paper OG 159, to be published, with A.A. Watson.
- 10) "The Most Energetic Cosmic Rays", Scientific American, accepted for publication in 1978.

Alan W. Peterson

"A New Planetary Nebula", Publ. Astronomy Soc. of Pacific 89 129 (1977) Abstract of paper in item 6.

Derek B. Swinson

Swinson, D.B., The Observation of Cosmic Ray Modulation effects at High Rigidities, Proc. 15th International Cosmic Ray Conference (Plovdiv, Bulgaria), 4, 56-58, 1977.

David M. Wolfe

- 1) "Observations at Resonances near 11eV in the Photodetachment Cross-Section at the H⁻ Ion", Physical Review Letters 38, 228 (1977) with H.C. Bryant, B.D. Dieterle, J.B. Donahue, H. Sharifian, H. Tootoonchi, P.A.M. Gram and M.A. Yates-Williams.
- 2) "Charged Pion Production from Neutron-Proton Collision at 790 MeV", Paper presented at the II International Conference on the Nucleon-Nucleon Interaction, University at British Columbia, Vancouver B.C. Canada June 1977, with W. Thomas, C. Cassapakis, B. Dieterle, C. Leavitt, M. Evans, G. Glass, Mahavir Jain, L. Northcliffe, B. Barner, J. Simmons.
- 3) "Measurement of the Angular Correlation parameters in the β decay of polarized Λ^0 hyperons", Physical Review 16 No. 7, 2104 (1977) with J. Lindquist, E. Swallow, R. Sumner, J. Watson, R. Winston, K. Reibel, D. Schwartz, A. Stevens and T. Romanowski.

Michael Zeilik, II

"Two-Component Dust Models of Near Infrared Emission from Compact HII Regions" Astrophysical Journal, 1977, Vol. 213, p. 58; "Optical Infrared, and Radio Studies of Compact, HII Regions; II. The H-alpha Knot 588B", Astronomy and Astrophysics, 1977, Vol. 55, p.215; "Fine-Structure Line Emission from Selected Compact HII Regions", Astro-

physical Journal, 1977, Vol. 218, p. 118 co-authors: J. Pipher, S. Sharpless, M. Savedoff, J. Krassner, S. Valese, B. Soifer.
"Large-Beam Infrared Observations of Compact HII Regions", Astrophysical Journal, 1977, Vol. 82, p. 824, co-author: P.A. Heckert;
"A Junior/Senior PSI Astrophysics Course", Proceedings of the Southwest Regional Conference for Astronomy and Astrophysics, 1977, Vol. 3, p. 161.

5. Other research projects or creative work in progress or completed during period.

Harjit S. Ahluwalia

- 1) NASA-GSFC, NGR-32-004-086, \$20,560, A Study of Correlation Between IMF, the Solar Wind, and the Cosmic Ray Intensity During Forbush Decreases, 30 months, 1973-77. This grant expired on January 31, 1977.
- 2) Three unsponsored research projects in progress.

Seymour S. Alpert

Fourier Optics (Two graduate students)
 Human Metabolic Processing

Charles L. Beckel

- 1) NIH-Minority Biomedical Support; \$9,035; "Theoretical Study of Adenine Nucleotides," Sept 9, 1976 to Sept 8, 1977.
 - 2) NIH-Minority Biomedical Support; \$10,420; "Theroetical Study of Phosphate-Containing Biological Molecules," Aug. 20, 1977 to Aug. 19, 1978.
 - 3) AF Office of Scientific Research \$40,730; "Diatomic Molecule Properties in the Intermediate Energy to Dissociation Limit Range," Oct. 1, 1976 to Nov. 15, 1977.
- Same sponsor & title as (3); \$46,470; Nov. 16, 1977 to Nov. 15, 1978.

Howard Bryant

"The Photodetachment Spectrum of H⁻" D.O.E. (ER-77-5-04-3998) 6/77-5/78 \$60,000. "A Demonstration Salt Gradient Solar Pond" D.O.E. (EG-77-5-04-3977) 4/77-3/78 \$55,952. "Employment of Foreign Students" Los Alamos Scientif. Lab. 11/76-11/77 \$5760. "Running expenses for LAMPF experiments 200 & 323" Los Alamos Los Alamos Scientific Lab. indefinite 8960 Go35 and G065. Text book in progress "Introduction to Light".

Colston Chandler

C. Chandler and A.G. Gibson, Long-range Invariance Principle Revisited. C. Chandler, On a Recent Paper of Bencze and Tandy, and C. Chandler, Nonrelativistic Multichannel Quantum Scattering Theory in a Two Hilbert Space Formulation (to be published by Taubner) were completed in August 1977 with the partial support of the Hungarian Academy of Sciences, Central Research Institute, Budapest, Hungary. C. Chandler and A.G. Gibson, N-body Quantum Scattering Theory in Two Hilbert Spaces, II. Some Asymptotic Limits. C. Chandler, Spurious Solutions to N-Particles Scattering Equations. These last two papers were completed with partial support from the Fulbright Commission and the Minna-James-Heinemann Stiftung, in collaboration with the NATO Senior Scientists Programme. Fulbright Commission, travel grant

Minna-James-Heinemann Stiftung, N-Body Quantum Scattering Theory in Two Hilbert Spaces, DM70000, September 1977 through May 1978.

Byron D. Dieterle

- 1) Design of neutron-proton scattering experiment (Experiment 26) at TRIUMF
- 2) Design and Preparation of "Search for Bound States" (Exp. 701 at Brookhaven National Laboratory.
- 3) Analysis of "neutron-neutron scattering" (Exp. 279 at LAMPF)
- 4) Analysis of "isobar production inpp Collisions" (Exp. 124 at LAMPF)
- 5) Publication in preparation: "pion production from n-p collisions" (Exp. 129 at LAMPF)
- 6) Publication in preparation of forward angle n-p scattering (Exp. 193 at LAMPF)
- 7) Publication in preparation of backward angle n-p scattering (Exp. 125 at LAMPF)
- 8) Prepared "Proposal for NaI Detector to be Used by the Physics Community" for DOE consideration.

Joey B. Donahue

My research activities have been under the following two Department of Energy contracts:

- 1) "Nucleon Physics Studies at Intermediate Energies", #E(29-2)-3347 in the amount of \$145,000. My activities under this contract were to analyze a neutron-proton elastic scattering experiment which our group performed last year at the Los Alamos Meson Physics Facility. This analysis is complete and we are now preparing a publication for Physical Review Letters. We are also in the process of analyzing the data from a proton-proton pion production experiment which also took place at LAMPF.

My additional activities have been to plan and mount an experiment at Brookhaven National Laboratory to look for bound states and resonances in the nucleon-antinucleon system. This experiment is scheduled to run in April, 1978 on the new Low Energy Separated Beam at the Alternation Gradient Synchrotron.

- 2) "Photodetachment Spectrum of H^- ", #ER-77S-04-3998 in the amount of \$60,000. This research uses a crossed beam technique with a laser beam and the H^- beam at LAMPF to look for structure in the photo-detachment spectrum of H^- .

Two experiments have been completed to date and the results have been published in Physical Review Letters. More experiments using this technique are now in preparation.

J.D. Finley, III

Support for travel was received from the University of Texas at Austin, and from the Formento Educacional, Mexico City, for travel to those places. Support for travel to conference in Canada received from UNM.

John L. Howarth
Same as last year.

David S. King
NSF Grant to continue study of pulsating variable stars September 1976 - February 1978 (\$11,700).

C.P. Leavitt
Energy Research and Development Administration Grant EY-76-s-04-3347 for \$145,000. Dates 1 Dec. 76-30, Nov. 1977 renewed for \$200,000 for 1 Dec. 77- 30 Nov. 1978.

John Linsley
Completed research project entitled "Extensive Air Showers at Volcano Ranch Station", supported by the National Science Foundation under a series of Grants, starting 12/1/72, for the total amount \$198,700. Received National Science Foundation Grant No. PHY77-19377 for new research project entitled "Muon Component of Cosmic Ray Showers", in the amount \$65,000 for the first 12 months.

Alan W. Peterson
NSF Grant \$33,000 10/76 to 10/77 "Infrared OH Airglow Studies"
Paper to appear in 1978 "Correlation Studies of Four Submicron OH Bands During Spacelab Simulation" in Journal of Atmospheric & Terrestrial Physics (with Lois Kieffaber). Visited NMSU Astronomy Department in April to discuss use of their planetary patrol telescope for my unsponsored Globular Cluster project.

Victor H. Regener
Several research projects, sponsored and unsponsored.

Derek B. Swinson
Work continued on N.S.F. Research Grant (with Victor H. Regener): "Field Dependent Cosmic Ray Anisotropies in Interplanetary Space at High Rigidities": \$50,300: June 1, 1976- November 30, 1978.

David M. Wolfe
Energy Research and Development Administration Grant EY-76-s-04-3347 for \$145,000. Dates 1 Dec. 76-30 Nov. 77 renewed for \$200,000 for 1 Dec. 77-30 Nov. 78.

Michael Zeilik, II
Revision of Astronomy: The Evolving Universe for 2nd edition; development of A.370 and A. 371 as PSI course under NSF grant 12533, \$10,200 until August 1978; infrared observations supported by UNM Research Allocations Committee; development of programs for infrared data reduction.

6. Activities in learned and professional societies.

Harjit S. Ahluwalia
Chairperson for two sessions (MG-VII and MG-X) at the 15th International Conference on Cosmic Rays held at Plovdiv, Bulgaria, on August 13-26, 1977. See #2 above for meetings and #4 above for papers presented.

Seymour S. Alpert

Sec'y, Laser Institute of America; Albuquerque Chapter

Charles L. Beckel

- 1) "An Energy Gradient MO study of the Effects of Protonation on Phosphate Ion Conformation" a paper presented at the International Symposium on Quantum Biology and Quantum Pharmacology, Sanibel Island, Florida, 10 January 1976. (co-author, E.S. Hertel, Jr.).
- 2) "Theoretical Energy Gradient Study of Five-Membered Rings," a paper presented at the 32nd Symposium on Molecular Spectroscopy, Columbus, Ohio, June 14, 1977. (co-author, A.R. Hashemi-Attar).

Howard Bryant

Meetings attended: Gordon Conference "Atomic Physics", July 4-8; Wolfeboro, New Hampshire (invited paper presented), LAMPF user's meeting, Nov. 13, 14, Los Alamos, 9th Annual Meeting of the Division of Electron 2nd Atomic Physics, Knoxville, Tenn. Dec. 5-7 (invited paper presented).

Colston Chandler

Attended conference "Reactions 77" during June at Lake Balaton, Hungary Presented invited talk, "Nonrelativistic Multichannel Quantum Scattering Theory in a Two Hilbert Space Formulation," at the International Conference on Operator Algebra, Ideals, and their Applications in Theoretical Physics, Leipzig, Sept. 1977.

Byron D. Dieterle

Defense of Proposal 701 at High Energy Advisory Committee Meeting Jan., 1977.
 Attended 2nd International Conference on the Nucleon-Nucleon Interactions.
 Delivered invited talk at above meeting "Elastic np Scattering".
 Seminar at University of Washington in Seattle on "Search for Baryonium", Feb. 1977.
 Colloquium at TRIUMF, "Nucleon-Nucleon Experiments at LAMPF," Apr. 1977.
 Seminar at UC Riverside "Search for Bound NN states", July 1977.

Joey B. Donahue

- 1) "Workshop on Low Energy Separated Beams", Brookhaven National Laboratory, Upton, New York, March 1977.
- 2) "II International Conference on the Nucleon Nucleon Interaction", University of British Columbia, Vancouver, B.C., Canada, June 1977.
- 3) "IEEE Nuclear Science Symposium", San Francisco, California, October 1977.

J.D. Finley, III

Attended and gave requested talk at the Eighth International Conference on General Relativity and Gravitation, Waterloo, Canada, August, 1977. Paper was entitled "Spinorial Structures and Null Geodesic Surfaces on Complex Manifolds".

John L. Howarth

Attended annual meeting of National Collegiate Honors Council, Washington, D.C., October 27-29, 1977.
 Attended Danforth Associate Conference, Durango, Colorado, May 19-22, 1977.

David S. King

President (currently) of local chapter of Sigma Xi (The Scientific Research Society of North America).

Attended and presented papers at the 150th meeting of the American Astronomical Society, 16-19 Jan., 1977 in Honolulu, Hawaii and at the 150th meeting of the American Astronomical Society 12-15 June, 1977 at Atlanta, Georgia.

Alan W. Peterson

Attended American Astronomical Society Meeting in Honolulu, Hawaii and gave paper "Resurvey of Globular Clusters at H-Alpha with an Image Intensified Prefiltered, slitless spectrograph." Abstract in Bull. American Astron. Soc. 8 536, 1976.

Derek B. Swinson

Attended, Presented a paper at, and was a session Chairman at 15th International Cosmic Ray Conference, Plovdiv, Bulgaria, August 1977.

David M. Wolfe

Attended: 1) "Workshop on Low Energy Separate Beams", Brookhaven National Laboratory, Upton, New York Mar. 1977.

2) "II International Conference on the Nucleon-Nucleon Interaction," University of British Columbia, Vancouver B.C., Canada June 1977.

Michael Zeilik, II

"PSI Astronomy for Astrophysics Majors", paper presented of 150th meeting of the American Astronomical Society.

7. Other professional activities

Harjit S. Ahluwalia

1) Gave a slide-show talk on, "Machhu-Pichhu, the Lost City of Incas", at the Alameda Community Center on October 13, 1977.

2) Referee for (a) Journal of Geophysical Research (Space Physics)

(b) Research Proposals submitted to the Solar-Terrestrial Physics Section of National Science Foundation.

Charles L. Beckel

1) Member, Navajo Science Committee - Education Subcommittee.

2) Consultant, Dikewood Corporation.

3) UNM, Dept. of Physics and Astronomy Colloquium; "Diatomic Molecules and Small Segments of Biological Molecules," March 4, 1977.

Howard Bryant

Referee for N.S.F. research proposal in atomic physics.

Refereed 3 papers for American Journal of Physics.

1 paper for Optical Society of America.

1 paper for Physical Review Letters.

Joey B. Donahue

"Atomic Physics at LAMPF: Observation of Resonances in the Photo-detachment Spectrum of the H^- Ion". Talk presented at the High Energy Physics Seminar, University of California at Irvine, March 1977.

J.D. Finley, III

Two Colloquia given to the UNM Mathematics Department, on black holes and on hyperheavenly metrics.

John L. Howarth

Consultant to Veterans' Administration Hospital, Albuquerque, and to a number of hospitals, radiologists and dermatologists in New Mexico, and Colorado.

David S. King

Taught Community College course during Spring semester of 1977. Consultant to Los Alamos Scientific Laboratory.

Alan W. Peterson

Departmental seminar "Recent Results on the OH Airglow" November 14, 1977. Continued photographic collection of Atmospheric Halo phenomena.

Derek B. Swinson

Presented Music Programs for N.M. Irish-American Society, N.M. Collegiate Data Processors Assoc., U.N.M. International Student Festival, Serendipity Strawberry Festival, Appeared in Classics Theater's "The Merchant of Venice", appeared in U.N.M. Faculty Follies, Wrote Music for Vortex Theater Production of "Look Back in Anger". Professional Consultation with several Local Attornies.

Michael Zeilik, II

"Sequential Star Formation", talk to Astronomy Dept., U.C. Berkeley; "Star Formation", talk at Physics Dept., Washington Univ.; "Star Formation", colloquium at N.M. Tech; "A Junior/Senior Level Astrophysics Course". Southwest Regional Conference for Astronomy and Astrophysics, Austin.

8. Non-teaching University service

Harjit S. Ahluwalia

- 1) Member of: (a) UNM Science Colloquium Committee, and (b) UNM - Sandia Colloquium Committee.
- 2) In-Charge of Departmental Weekly Colloquia
- 3) Chairperson of two Study Committees.

Seymour S. Alpert

ASUNM Speakers' Committee.

Charles L. Beckel

- 1) Member, Minority Biomedical Support Program (a) Executive Committee, to Aug. 1977 (b) Advisory Council, from Sept. 1977.
- 2) Member, Advisory Committee, Minority Center for Graduate Education from May 1977.
- 3) Member: Cultural Program Committee from July 1977.

Howard Bryant

Chairman, Physics & Astronomy Public Relations Committee.
 Represented department UNM High School Senior Day, November 5.
 Wrote Departmental Brochure for Undergraduates 3/77.

Joey B. Donahue

- 1) Served on the dissertation committee for H. Tootoonchi, October 1977.
- 2) Served on the dissertation committee for H. Sharifian, October 1977.

J.D. Finley, III

Faculty Sponsor; The Uncertainty Principle, Graduate Assoc. for Physics Students.
 Chairman, University Faculty Library Committee, spring sem. only.
 Chairman, Dept. Graduate Committee; Faculty Advisor for Undergraduates and for Graduate Students; Member, Univ. Fac. Library.
 Member of A&S Collg. Grad. Committee; Dept. Library Liaison.

John R. Green

Chairman, Committee on Academic Freedom and Tenure.

John L. Howarth

Director General Honors and Undergraduate Seminar Program; Member Faculty Senate, Faculty Senate Committee on Undergraduate Academic Affairs, General Honors Council, Physics and Astronomy Department Undergraduate Committee.

David S. King

Served on Dept. Graduate, Undergraduate and Public relations Committees Advisor for Astrophysics majors. In charge of staffing Campus Observatory Pub. Nights.

C.P. Leavitt

Dean's Promotion Committee
 Advisor for Los Alamos Graduate Students

Victor H. Regener

Department Chairman, Physics & Astronomy

Derek B. Swinson

Chairman of Physics Dept. Committee for Lower Division Laboratories.
 Wrote Material for 1977 U.N.M Faculty Follies.

David M. Wolfe

Chairman of Dissertation Committee for Willard Thomas, Ph.D. May 1977; served on Dissertation Committee for Roger Carlini, Ph.D. 1977; Chairman Committee on Studies, Carl Herrmann. Chairman Departmental Undergraduate Committee. Member Dept. Graduate Committee.

Michael Zeilik, II

Senator, Faculty Senate; Member Senate Undergraduate Academic Affairs Committee.

9. Public service

Harjit S. Ahluwalla

Served as Judge and Chairperson of Senior Physics Section at 25th New Mexico Science Engineering Fair at Socorro, New Mexico.

Seymour S. Alpert

Member, Albuquerque Big Brothers Association

Sec'y of Board of Directors of Chavvrat Hamidbar (Fellowship of Desert).

Charles L. Beckel

1) Kidney Foundation of New Mexico, Inc.; Member Executive Committee Chairman of Research Committee; Delegate Trustee.

2) Astronomy Evening for Special Education classes at Bel Air School, Albuquerque, Nov. 17, 1977.

Howard Bryant

"Energy for 5th Graders", Mrs. Veith's Class, Zia School 10 May 1977.

David S. King

Talked to several elementary school groups.

C.P. Leavitt

Member of Governor's Council on Developmental Disabilities
Albuquerque Recorder Society

Alan W. Peterson

Had two groups of boy scouts from Rio Rancho at campus observatory.
Gave a talk to members of "Die Weinstube" wine tasting society on improving the quality of amateur wines.

Derek B. Swinson

Pack Chairman for Cub Scout Pack -- Introduced Music Program for Cub Pack.

Michael Zeilik, II

"Starbirth", talk to Alpha Centauri Club, Albuquerque; "Stardeath", Southeast Mo. State Univ.; "Black Holes", Albuquerque Academy; "Death of Stars", Monday Study Group, Alb.; "Star Death", Harvard-Yale-Princeton Club of N.M.

10. Personal information

Alan W. PetersonDaughter born May 26, 1977

Successfully sued the University for medical claim due to a back injury in 1974.

David M. Wolfe

Son: Daniel Born on 1 Nov. 1977

The Report of the Department of Political Science

July 1, 1977-June 30, 1978

Robert J. Sickels, Chairman

I.A. Significant achievements during the academic year 1977-78:

Two members of the department were involved in securing and then working on an NSF grant on teleconferences in legal hearings. One developed a Sandia/UNM contract on environmental policy analysis.

A special section of the introductory American politics course for students with very low ACT scores was run and monitored. A final analysis of the course is being prepared.

A new curriculum was developed in the department, in public policy and public affairs, in response to needs reported nationally and reflected in graduate applications locally. A reordering of existing courses is all that is required for the time being.

I.B. Significant plans and recommendations:

We plan to make courses in public policy and public affairs available regularly from now on, to encourage men and women working in state government to improve their skills and earn M.A.s in political science. At the main campus, the public policy curriculum will systematize the training of public servants and others at the B.A., M.A., and Ph.D. levels. Qualified graduates of the Public Administration program will find it increasingly possible to enter our Ph.D. program.

I.C. Appointments to staff:

Ivory T. Robinson, Assistant Professor, August, 1977.

Martha H. Good, Assistant Professor, January, 1978.

I.D. Separations from staff:

Edwin C. Hoyt, Professor, retired June, 1978.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study. (No faculty member responded to this section.)
2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

One faculty member, Jay B. Sorenson, Professor, was on sabbatical during the academic year 1976-1977, doing work at Los Alamos Laboratories, Energy Division, Q12. Two faculty members travelled during the period. Martin C. Needler, Professor, travelled to Ecuador, Chile, Peru, and Argentina in January; to Mexico, Guatemala, Venezuela, and Curacao in June; and to Germany, Romania, Bulgaria, Yugoslavia, Hungary, Czechoslovakia, and Austria in July and August. Karen Remmer, Assistant Professor, travelled during the summer to Mexico and Sweden.

3. New Scholastic honors, fellowships, etc.

Various honors, fellowships, grants, etc. were awarded to faculty members in the department in 1977. Peter A. Lupsha, Associate Professor, received a \$600.00 grant from the Governor's Organized Crime Prevention Commission to study organized crime and narcotics intelligence information systems. (This study looks at ways in which law enforcement officials in various Southwest border states develop criminal intelligence in the areas of drug trafficking and organized crime.) Martin Needler, Professor, was named 1977 Annual Research Lecturer, University of New Mexico. Professor Needler was also recommended by the Presidential Advisor Board on Ambassadorial Appointments for Ambassador to Ecuador. (The President decided on a career FSO appointment.) James Lee Ray, Assistant

Professor, received a University of NM Research Stipend for Summer, 1977.

4. Publications during the Period.

Several faculty members in the Department of Political Science published books, articles, book reviews, etc. in 1977. These publications are listed below.

F. Chris Garcia, Associate Professor:

The Chicano Political Experience. North Scituate, Massachusetts: Duxbury Press, 1977. Co-author: Rudolph de la Garza.

Review of Arnulfo D. Trejo, Bibliografia, Chicana: A Guide to Information Sources, in Journal of Politics, 1977, Volume 39, No. 2, p. 548.

"Politics and Education Do Mix: Potential Contributions of Political Science to Multicultural Education," Journal of Teacher Education, 1977, Volume 28, No. 3, pp. 21-25.

Fred R. Harris, Professor:

Potomac Fever, W.W. Norton & Company, 1977.

Thomas Lane Hurley, Assistant Professor:

"Presidential Voting Change in the South," Journal of Politics, Volume 39, No. 2, May 1977. (Co-author)

Peter A. Lupsha, Associate Professor:

"The Poverty of Public Services in the Land of Plenty: An Analysis and Interpretation," Watkins and Perry (eds.), in The Rise of the Sunbelt Cities: Sage Urban Affairs Annual, 1977-78. (Beverly Hills: Sage, 1977). With William Siembieda, pp. 183-206.

Martin C. Needler, Professor:

An Introduction to Latin American Politics: The Structure of Conflict, Prentice-Hall, 1977.

The United States and the Latin American Revolution, Allyn & Bacon, 1972; second edition, UCLA Latin American Center, 1977.

"Historical Background," Chapter 3 in Area Handbook for Cuba, Government Printing Office, 1977.

"The Closeness of Elections in Latin America," Latin American Research Review, Volume 12, No. 1, 1977.

4. Martin C. Needler (continued)

"Ideas and Opinions," Latin American Research Review, Volume 12, No. 2, Summer 1977.

"Oil: The Latin American Connection," (with Jan K. Black), New Mexico Alumnus, December 1977.

"Mexico," Yearbook on International Communist Affairs, 1977, (Hoover Institute).

Book Review: Armed Forces and Society, Volume 4, No. 1, December, 1977.

James Lee Ray, Assistant Professor:

"A Generalized Index of Concentration," (with Rein Taagepera) Sociological Methods and Research, 5/3 February 1977, pp. 367-384.

Karen L. Remmer, Assistant Professor:

"The Timing, Pace and Sequence of Political Change: Chile, 1891-1925," Hispanic American Historical Review, 57 (May 1977), pp. 205-230.

Robert Seward, Assistant Professor:

"Public Acceptance of Risk Associated with Radio Active Waste," Independent Report Submitted to Office of Environmental Policy Analysis, ERDA, Oak Ridge National Laboratories Technical Report, May 1977.

Robert J. Sickels, Professor and Chairperson:

"The Plural Executive," in F. Chris Garcia and Paul L. Hain, eds., New Mexico Government, Albuquerque: University of New Mexico Press, 1976 (published in 1977).

Review of Parties and Party Systems, by Giovanni Sartori, in the Annals of the American Academy, May 1977, p. 146.

Jay B. Sorenson, Professor:

"El Rio Chama Scenic and Pastoral Act," Albuquerque Journal, January 9, 1977, Co-author, Karen Marston.

"New Mexican Nationalism and the Evolution of Energy Policy in New Mexico," (co-authored) Natural Resources Journal, April 1977, Volume 17, pp. 183-300.

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4. Jay B. Sorenson (continued):

"Toxic Substances Research - Section 208 of the Water Pollution Control Act," Proceedings of the 22nd Annual New Mexico Water Conference, New Mexico Water Resources Research Institute, WRRI Dept. No. 089, July 1977, pp. 82-105.

"Potential Environmental Policy Constraints on Nuclear Fuel Development Programs," An Issue Overview prepared for the United States Energy Research and Development Administration, Office of the Assistant Administrator for Environment and Safety, (co-authored), October 1977.

5. Other Research Projects or creative work in progress or completed during period.

A number of the faculty were engaged in research projects, and/or in the writing of books, articles, papers, etc., during 1977.

The work(s) of each of these faculty members is specified below.

F. Chris Garcia, Associate Professor:

Completion of survey of environmental attitudes of New Mexico state senators and their constituents, OWRT sponsored, \$3,372.

Survey of "The Political Cultures of New Mexico," UNM Research Allocations Committee, \$995, through June 30, 1978.

Paul L. Hain, Associate Professor:

Engaged in studies of state politics and of political careers.

Fred R. Harris, Professor:

Participation: the Ideal and the Reality of Democracy in America, an introduction to American Government, to be published by Scott, Foresman and Company, Chicago, 1979.

Thomas Lane Hurley, Assistant Professor:

"Policy Innovation: A Causal Interpretation."

"The New Civil War: Federal Spending and the Sunbelt."

"Understanding the Fair Hearing Process in New Mexico."

"Specification Problems in Policy Research."

"Locus of Control in Administrative Fair Hearings: Who's Doing It to Whom?"

5. Thomas Lane Hurley (continued):

"Administrative Fair Hearings: A Bibliographic Essay."

Untitled research paper to be delivered at the Annual Meeting of Law and Society Association in Minneapolis (Spring 1978).

Untitled research paper to appear in The Journal of Urban Law (forthcoming).

Untitled research paper to be delivered at the 1979 Annual Meeting of the American Political Science Association.

Review of Social Services in the United States, by S. Kamerman and A. Kahn, in Journal of Politics, (forthcoming).

"The Responsiveness of Federal and State Governments to Urban Problems," (co-author), Journal of Politics, (forthcoming).

Research Director, National Science Foundation Grant (\$280,993), "Teleconferencing in Goldberg V. Kelly Administrative Hearings," 1977-present.

Peter A. Lupsha, Associate Professor:

Legislative Folkways Project. Several articles for popular audiences in progress. "Notes on the Legislature" is scheduled for publication in 1978. (FRAC-UNM 1976 funded.)

Political Corruption and Organized Crime in the Southwest. (Ongoing, unfunded.)

Urban Migrants Project. The impact of middle class urban population migration on public policy in the Southwest. (IARS-Division of Government Research seed money, \$2,500.)

Analysis of pilot study in Rio Communities (Belen) in progress.

Urban Politics Textbook, (Houghton Mifflin contracted 1977).

Martin C. Needler, Professor:

Research contract from United States Department of State (\$21,751) on "Petroleum Policies of Latin American Oil Exporters" for 1976-77, completed.

The Latin American Oil Exporters and the Energy Crisis, Editor and co-author, (forthcoming).

"The Logic of Conspiracy: The Latin American Military Coup as a Problem in the Social Sciences," Studies in Comparative International Development (forthcoming).

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5. Martin C. Needler (continued):

"Latin America and the U.S. Energy Problem" (forthcoming).

"Bon Bini a Kursow," (with Jan K. Black) Christian Science Monitor (forthcoming).

James Lee Ray, Assistant Professor:

Global Politics. An introductory textbook in International Relations, for Houghton Mifflin (completed).

"Dependency, Political Compliance, and Economic Growth in Latin America and Eastern Europe," to be presented at the Annual Convention of the Southwestern Social Science Association in April 1978.

"Status Inconsistency and 'Aggressive' War Involvement in Europe, 1816-1965," to be presented at the Annual Convention of the International Studies Association in March 1978.

"Dependency and Economic Growth in Latin America," (with Thomas Webster) International Studies Quarterly (Forthcoming, September 1978).

"The Measurement of System Structure," in The Correlates of War II: Testing Some Balance of Power Models, edited by J. David Singer, (forthcoming).

Karen L. Remmer, Assistant Professor:

"Party Competition and Public Policy: Chile and Argentina, 1890-1930" (monograph).

"Political Demobilization in Chile, 1973-1977" (article).

"Evaluating the Policy Impact of Military Regimes," Latin American Research Review (forthcoming).

Book Review: "Armies and Politics in Latin America," ed. Abraham F. Lowenthal (Holmes & Meier, Publishers Inc., 1976) Journal of Politics (forthcoming).

Robert Seward, Assistant Professor:

Water Policy and Politics in the Albuquerque Greater Urban Area, in progress, funded research project, Institute for Applied Research Services.

"Environmental Attitudes and Regional Differences," (co-author, forthcoming).

5. Robert J. Sickels, Professor and Chairperson:

Book on The Presidency begun. Under contract to Prentice-Hall, Inc.

Review of Stonewall, by Richard Ben-Veniste and George Frampton, Jr., in the Annals of the American Academy (forthcoming).

Review of Managing Presidential Objectives, by Richard Rose, (brief note), Journal of Politics (forthcoming).

Jay B. Sorenson, Professor:

Los Alamos Laboratories Energy Division, "The Creation of the Western Governors' Policy Office (WESTPO)," A Policy Analysis Prepared as Part of Legislative Strategies in an Energy Exporting State Project, June 1977, REF: LP 7-80924-1.

Los Alamos Laboratories Energy Division, "The Legal & Institutional Constraints on Solar Space Heating & Cooling," A policy analysis prepared as part of Legislative Strategies in an Energy Exporting State Project, June 1977, REF: LP 7-80924-1.

Sandia Laboratories, Office of Environmental Policy Analysis, "Non-Proliferation -- Some Potential Conflict with Regional Health, Safety, Environmental and Socioeconomic Concerns," January 1977. Limited Distribution. Co-authors: C. Trauth & F. Krause.

In Progress: NM State Engineer, "The Availability of Water in the San Juan Structural Basin," Contract #283-581-1, \$10,000.

"Environmental Considerations of Reprocessing Facilities in New Mexico," (with G. Whan) forthcoming.

"The Albuquerque Open Space Conflict: Trade-offs Between Development and Environmental Protection," (forthcoming).

Harry P. Stumpf, Professor:

Senior Project Consultant, National Science Foundation Grant (\$280,993), "Teleconferencing in Goldberg V. Kelly Administrative Hearings," June 1977 - present.

6. Activities in Learned and Professional Societies.

Faculty members participated in learned and professional societies in various ways during 1977, including holding offices, reading professional papers, serving as panel discussants, attending meetings, etc. The specific activities of participating faculty members are listed below.

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F. Chris Garcia, Associate Professor:

"Keystones in the Arch of a Dual Society: Chicano Elective Governmental Office Holders," a paper presented at a Russell Sage Foundation Seminar, New York, May 1977.

President, Western Political Science Association. Attended annual meeting in Phoenix, AZ, April 1977.

Panel Discussant, "Changing Dimensions of Ethnic Group Politics in the United States," American Political Science Association Annual Meeting, Washington, D.C., September 1977.

Continued membership on the Pre-Collegiate Education Committee of the American Political Science Association.

Paul L. Hain, Associate Professor:

Chairman, Panel, "Elections and Recruitment at the Local Level," at the 1977 Annual Meeting of the Southwestern Social Science Association, Dallas, TX.

Member, Roundtable on "Studying State Politics in the Seventies," at the 1977 Annual Meeting of the Midwest Political Science Association, Chicago, IL.

Fred R. Harris, Professor:

Panel Discussant at Western Political Science Association meeting, Phoenix, AZ, 1977.

Edwin C. Hoyt, Professor:

Member of the American Society of International Law Study Panel on the Role of Law in Government Decision-Making in War-Peace Crises, 1967 to present.

Peter A. Lupsha, Associate Professor:

Associate Editor, Western Political Quarterly.

Panelist, Paper Presentation, "Political Economy of the Southwest," Austin, TX, February 1977.

Panelist, Discussant-Paper Presentation, "Political Strategies and Political Change," at Western Political Science Association meeting, Phoenix, AZ, April 1977.

Martin S. Needler, Professor:

Paper Presentation, "Development Theory Revisited," at meeting of Rocky Mountain Council on Latin American Studies, Tucson, AZ, April 1977.

6. Martin S. Needler (continued)

Discussant, "The Military in Politics," at Latin American Studies Association meeting, Houston, TX, November 1977.

Member, Sub-committee on Ethical Standards, Latin American Studies Association.

Member, Gabriel Almond Dissertation Award Committee, American Political Science Association.

James Lee Ray, Assistant Professor:

Paper Presentation, "Dependency and Economic Performance in Latin America," at the 1977 Convention of the International Studies Association, St. Louis, Missouri. Co-author: Thomas Webster.

Karen L. Remmer, Assistant Professor:

Commentator, Panel on "Latin American Military," at Rocky Mountain Council on Latin American Studies, Tucson, AZ, April 1977.

Chairperson, Latin American Program, Western Social Science Association meeting, Denver, CO, April 1977.

Paper Presentation, "The Dynamics of Authoritarian Regimes: The Case of Chile," at the Latin American Studies Association meeting, Houston, TX, November 1977.

Robert Seward, Assistant Professor:

Panel Discussant, "Energy and the Environment," at Western Political Science Association meeting, March 1977.

Jay B. Sorenson, Professor:

Paper Presentation, "The Evolution of an Energy Policy in New Mexico," at Western Social Science Association Conference, Denver, CO, April 1977.

Paper Presentation, "Toxic Substances, Section 208 of the Water Pollution Control Act," at the 22nd Annual New Mexico Conference, Las Cruces, NM, April 1977.

Attended Annual Meeting of Institute of Nuclear Materials Management, Seattle, Washington, June 1977.

Harry P. Stumpf, Professor:

Discussant, Panel on Public Law, Western Political Science Association Meeting, Phoenix, AZ, April 1977.

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6. Harry P. Stumpf (continued)

Attended American Political Science Association Meeting, Washington, D.C., September 1977.

Attended Trustees Meeting, Law & Society Association, Chicago, ILL, September 1977.

7. Other Professional Activities.

Other professional activities in which faculty members participated in 1977 include consultancies, radio and television appearances, on- and off-campus talks, etc. Specifically:

F. Chris Garcia, Associate Professor:

Consultant, Voting Rights Act Project, UNM Linguistics Department.

Talk to the Alpha Mu Chapter of Pi Lambda Theta (education honorary), March 1977.

Talk to the Albuquerque Chapter of the American Statistical Association, November 1977.

Television appearance (KNME) on Governor's Committee on Integrity television series, panel discussion on "State Government Reorganization," June 1977.

Television appearance on Ernie Mills' "Roundhouse Report," KNMX, August 1977.

Refereed reviews of manuscripts for Social Science Quarterly (3), American Politics Quarterly (1) and Western Political Quarterly (1).

Paul L. Hain, Associate Professor:

Reviewed articles submitted for publication in Western Political Quarterly, Journal of Politics and American Political Quarterly.

Two television appearances to discuss New Mexico government with Ernie Mills.

Panelist, National Humanities Council, "Ethics in Government," televised December 1977.

Fred R. Harris, Professor:

Panel member, Labor Issues Series, forum and radio programs, sponsored by the New Mexico Humanities Council and the NM AFL-CIO, 1977-78.

7. Fred R. Harris (continued)

Several speeches, lectures and radio programs on political science topics.

Thomas Lane Hurley, Assistant Professor:

Consultant on Survey Research Sampling, Design, Measurement and Analysis for:

Zia Research Associates, Albuquerque, New Mexico 1976-
Larry Adcock Associates, Albuquerque, New Mexico 1977-
The American Heart Association, Albuquerque, New Mexico 1977-
The American Red Cross, Albuquerque, New Mexico

Peter A. Lupsha, Associate Professor:

Consultant, Governor's Organized Crime Prevention Commission. Currently writing report to the Governor on "Narcotics Trafficking and Drug Abuse in the State of New Mexico," (to be published Spring 1978).

Speaker, Kiwanis Club, "Organized Crime in New Mexico: Prospects and Potential," Grants, NM, November 1977, UNM Speakers Bureau.

Martin C. Needler, Professor:

Lectures at: University of Victoria, B.C.; Simon Fraser University; Lester Pearson College; University of Kansas; Central College, Iowa; and, Universidad de Merida Venezuela.

Consultant: State of Louisiana Board of Regents; Booz, Allen & Hamilton; Smithsonian Institute.

Speaker in Colloquium on Oil Policy, Department of State.

Member, National Advisory Board, Border Research Program. Attended meeting in Austin, TX, February 1977.

Member, Board of Directors, Development Strategies (non-profit public service).

Member, Editorial Board, Armed Forces & Society.

James Lee Ray, Assistant Professor:

Participant in Symposium on "Panama Canal Treaties," sponsored by the New Mexico Humanities Council, Albuquerque, NM, November 1977.

Radio appearance on the "Bruce Hanson Show," KZIA, Albuquerque, to discuss Panama Canal Treaties.

7. Karen L. Remmer, Assistant Professor:

Program Coordinator, Conference on Contemporary Latin America, University of New Mexico, April 1977.

Radio appearance, KZIA, November 1977.

Chairperson, Panama Canal Symposium, Albuquerque, NM, November 1977.

Jay B. Sorenson, Professor:

Staff Consultant, New Mexico House Ways and Means Committee, New Mexico State Legislature, 33rd Session, Jan.-March, 1977.

Legislation drafted and lobbied successfully, "El Rio Chama, Scenic and Pastoral Act," passed legislation and signed by Governor, April 6, Ch. 242.

Legislation assistance, "Water Fund Allocations," Rep. S. Kennedy, passed legislation and signed by Governor, April 6, Ch. 205.

"Executive Reorganization Act," Rusk (House Bills 4-17), passed and signed by Governor, April 7, Chs. 247-257.

Participant in Symposium on "U.S. - Japan Economic Cooperation," Albuquerque, NM, March 1977. Sponsored by Albuquerque Chamber of Commerce and the Japanese Consulate, L.A.

Participant in Symposium on "Ethics in Government Campaign Reform," Governor's Program, recorded for television showing January 1977, Albuquerque, NM.

Executive on Loan to Governor Jerry Apodaca, 1975-

Member, Natural Resources Sub-Cabinet, New Mexico Governor's Cabinet, 1976-

8. Non-teaching University Service.

In 1977, faculty members in the Political Science Department served the University in a variety of ways, through committee memberships both in and outside of the Department, through administrative positions held, in advisory and consultant capacities, etc. Their service in these areas is detailed below.

8. F. Chris Garcia, Associate Professor:

Associate Dean, College of Arts and Sciences

Faculty Senate

Committee on Undergraduate Affairs, UNM Faculty Senate

Admission and Registration Committee

Faculty Sponsor of Presidential Scholar

Faculty Sponsor, Christians on Campus (Fall, 1977 term)

Faculty Sponsor, Rugby Club (Spring, 1977 term)

Editorial Advisory Board, "Four Star News" (non-profit, multicultural, community newspaper).

College of Arts & Sciences Ad Hoc Committee on Interdisciplinary Majors

College of Arts & Sciences Chair, Student Advisory Committee

Department Representative at Commencement Exercises

Member, Department Recruitment Committee

Member, Harry S. Truman Scholarship Committee

Paul L. Hain, Associate Professor:

Member, University Benefits Committee

Member, Department Executive Committee

Advisor to numerous undergraduate Political Science majors

Supervised one Honors Thesis (undergraduate)

Fred R. Harris, Professor:

Member, Department Undergraduate Committee

Member, Department Executive Committee

Thomas Lane Hurley, Assistant Professor:

Research Associate Professor, Division of Public Administration, University of New Mexico, Summer 1977.

8. Peter A. Lupsha, Associate Professor:

Member, Policy Planning Committee, Division of Public Administration, University of New Mexico

Member, Provost's IARS, Executive Committee

Member, Dean's Arts and Sciences College Graduate Committee;
Chairman, Sub-committee on Structure of Graduate Education

Faculty Advisor, Jewish Student Union 1976-1977

Chairman, Department Graduate Committee

Martin C. Needler, Professor:

Director, Division of Inter-American Affairs

Consultant, University of New Mexico Press

Member, President's Task Force on Latin American Programs

James Lee Ray, Assistant Professor:

Member, Department Recruitment Committee

Liaison Person Between Department and the Library

Karen L. Remmer, Assistant Professor:

Assistant Director, Division of Inter-American Affairs

Faculty Advisor, Student Organization for Latin American Studies (SOLAS)

Faculty Senate: Senate Committee on Graduate Programs and Standards

Department Recruitment Committee

Arts & Sciences Committee on Academic Programs

Arts & Sciences Latin American Search Committee

Business School Latin American Search Committee

Title VI Fellowship Screening Committee

8. Robert J. Sickels, Professor and Chairperson:

Department Chairperson

Faculty Liaison for the Harry S. Truman Scholarship Foundation

Jay B. Sorenson, Professor:

Director, Office of Environmental Policy Analysis Support Program, University of New Mexico/Sandia Laboratories

9. Public Service.

In addition to teaching and other professional activities, some faculty members contributed, in a variety of ways, to organizations outside of the University and of their professional careers. These activities are described, briefly, at this point.

Paul L. Hain was active in the Parent-Teacher Association (PTA), in addition to addressing the Junior League (Albuquerque) and various service clubs. Fred R. Harris served as President of New Mexicans for Tribal Development, an organization of non-Indians interested in further Indian self-government and economic self-sufficiency. Peter A. Lupsha was, and is, a member of the New Mexico Council on Crime and Delinquency, and was a member of the Board of New Mexico Zoological Society. Martin C. Needler served as Consultant for the National Endowment for the Humanities, and for the Department of State. Finally, Jay B. Sorenson served as Vice-Chairman, Open Spaces Task Force, City of Albuquerque; as President, Albuquerque Committee, Council of Foreign Relations; as Vice-Chairman, New Mexico Wilderness Commission; and, on the Board of Directors of the New Mexico Wilderness Study Committee.

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III. Students' Plans

A questionnaire was distributed in all Political Science classes asking graduating Political Science majors for information concerning their plans to continue their education, in what institutions and in what fields, or their plans to look for work, where, what kind, etc.

Our four M.A.s for the year plan: one to attend UNM law school, one to seek government employment, one to work for a year and then to seek a Ph.D., and one to return to Honduras to teach in public school.

At the bachelor's degree level, of those responding to the questionnaire, 9 (53%) indicated that they plan to continue their education. Of those planning to continue their education 3 (34%) have plans to attend Law School, one at the University of Michigan and 2 at the University of New Mexico. Two (22%) will work on advanced degrees in Political Science, one at Florida State University and one at the University of Michigan. One graduate (11%) plans to attend Andrews University, in Michigan, majoring in theology; one student (11%) plans to study for a degree in Educational Foundations at St. Johns College, in Santa Fe, New Mexico; and two (22%), who plan to continue at the University of New Mexico, are uncertain about the field in which they plan to continue their education.

Eight (47%) of those responding to our questionnaire indicated that they intend to look for work. Of these, 3 (37.5%) have job offers in hand -- one respondent has been offered a job in the Retail Management Program, Sears, Roebuck & Company; another has an offer with D.E.A. in Washington, D.C.; and a third person plans to continue working in her

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own business (she did not indicate what kind of business). Five (62.5%) of those who plan to look for work indicated that they have no job offers in hand, and gave no indication of where they plan to look for work or what kind of work they would seek.

<u>Plan to Continue Educ.</u>	<u>Field</u>	<u>Institution</u>
3	Law	U. of New Mexico (2) U. of Michigan (1)
2	Political Science	Florida State U. (1) U. of Michigan (1)
1	Theology	Andrews U., Mich. (1)
1	Educ'l Foundations	St. Johns College, Santa Fe, NM (1)
2	Unknown	U. of New Mexico (2)
<u>Plan to Look for Work.</u>	<u>Job Offers in Hand</u>	<u>Where? What Kind?</u>
3	Yes	Retail Mngmnt Program, Sears, Roebuck & Co. (1) D.E.A., Washington, D.C. (1) Own business (1)
5	No	Unknown

Since there was reluctance to answer questions of this sort, some of which were intrusive, we recommend that they be posed by the central administration henceforth.

The Report of the Department of Psychology
July 1, 1977 - June 30, 1978
Henry C. Ellis, Chairman

Introduction and Summary. This was again a productive and successful year for the department of psychology. We hired two new faculty, with the major objective of broadening our range of offerings, reducing the size of freshman courses, and further reducing our dependence on part-time faculty. Psychology continues to have the second highest student-faculty ratio in the College of Arts and Sciences (and the University), exceeded only by Sociology. No major changes were made in our undergraduate and graduate program; these programs were reviewed extensively a year ago. At that time the faculty reaffirmed its emphasis on an integrated graduate program with a core focus on the experimental psychology of learning. The department continues with the four basic areas of clinical, developmental, learning, and psychobiology. The strong departmental honors program was maintained. The recruitment of minority and women students was continued and the department continued its effective advisement of students. Our UNM-Hawaii faculty exchange program began its second successful year. We continued to emphasize the strong research orientation of the department which has enabled us to achieve national recognition and prominence.

We were pleased with the renewal of our NIMH training grants in experimental and clinical psychology. We were especially pleased that the administration authorized our purchase of a PDP 11/04 computer. This was a long-sought goal which deserves special notice. Our critical needs of the near future include additional space, support for additional TAs from the University, better support for travel, and greater assurance of staff-secretarial support in view of our extensive use of soft money. The faculty consisted of 26 voting members, four of whom hold appointments in other units as well as psychology.

I. General Department Information

A. Undergraduate Education. At the undergraduate level, the department handled a total enrollment of 3,756 students in introductory lectures (of whom 1,117 participated in the optional additional laboratory hour), and 3,980 in advanced courses (of whom 98 participated in the advanced laboratory courses). The graduating classes of 1977-78 included 81 Psychology majors and 66 Psychology minors. Departmental honors were awarded to: Frances Avery, Sharon Green, Scott Harvel, Teresa Johnson, Mark Joyce, Colleen MacLennan, Rebecca Mead, Joan Pulakos, Richard Smith, Jerry Thompson, and Jeffrey Toft. Based on our available budgeted FTE of 22.53, the above figures represent approximately a 34.3 student/faculty ratio. Based on our functional staff of 21.19 for the year, the ratio would be approximately 36.5.

The department offered an honors section of Psychology 102 and we will offer honors sections of both Psychology 101 and 102 in 1978-79. The addition of new faculty in 1978-79 will enable us to reduce the size of introductory psychology classes. Special no-credit discussion sections were offered on a volunteer basis in conjunction with introductory psychology. In addition, we initiated a special enrichment program in conjunction with introductory psychology. 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. The staffing of sufficient sections of Psychology 101 and 102 will improve substantially in 1978-79.

B. Graduate Education. At the exclusively graduate level, the department handled a total enrollment of 384 distributed among 51 registered students. These figures represent a continuation of our policy of restricting graduate enrollment within a 3:1 student/faculty ratio.

The Master's Degree was conferred upon 14 candidates: James Allender, 976

Thomas Boyd, Merith Cosden, Lloyd Crawford, Robert Frank, Paula Hertel, Vega Lalire, Sam Leigland, Daniel Matthews, Stefani Nervig, James Pittman, John Schnizlein, Timothy Strongin, and Sherman Tyler.

The Doctoral Degree was conferred upon 7 candidates:

Brian Charles Babbitt Adviser: Henry C. Ellis	The effect of task demands on dual-coding of pictorial stimuli
Sarah Kathleen Feeney Adviser: Samuel Roll	Transvestism: The effects of cross-dressing on personality
Susan E. Gonzales Adviser: Carol Conrad	Coding processes in bilingual word recognition
Charles R. Grah Adviser: Henry C. Ellis	Storage and retrieval processes in retention
Bruce A. Kushner Adviser: G. Robert Grice	Disjunctive reaction time: A variable criterion approach
Elliot Jay Rapoport Adviser: Peder J. Johnson	Developmental aspects of nonsolution in adults
Ward Arthur Rodriguez Adviser: Frank A. Logan	Effect of interpolated stimulus training on generalization to a reinstated stimulus: Reciprocal generalization

A longstanding problem for our graduate program has been insufficient financial aid for our graduate students. Our budgeted support for 1978-79 remains at the 1972-73 level of support. For the past three years we have received 3-4 additional TAs, but these increases were temporary. While these increases were appreciated the department needs a permanent increase of 4 additional TAs.

There is also the characteristic delay in obtaining information about support, a local as well as a national problem. Each year we lose top students because we cannot make definitive offers of support in sufficient time to compete with other institutions. In addition, we were unable to attract many of our most qualified and interested applicants because of lack of financial support. Nevertheless, we were able to provide some support for most of our students, with 14 as teaching assistants, 5 as research assistants, 14 as NIMH trainees, 4 APA minority fellowships, and

two with tuition scholarships. Local clinical facilities support 4 other students.

Our grants for the support of graduate training by NIMH and the minority fellowships from the American Psychological Association were renewed for 1978-79. The NIMH Training Grant in Clinical Psychology (Director, Sidney Rosenblum) begins its second of a three-year award, supporting 6 graduate students each year. The NIMH Research Service Award in General Experimental Psychology (Director, Henry Ellis) begins its second of a five-year award, 8 graduate students being supported. These awards provide continued evidence of the recognition of our program at a national level.

Recruitment of quality minority status and female graduate students continued. As a faculty we continue our resolve to maintain a high quality program with a reputation for excellence.

C. Staff. The faculty of the department numbered 26 during the 1977-78 academic year, composed of Professors Benedetti, Ellis, Ferraro, Grice, Johnson, Koenig, Logan, Norman, Rhodes, Rosenblum, and Ruebush; Associate Professors Feeney, Friden, Gluck (sabbatical leave), Harris, and Roll; and Assistant Professors Blake (on LWOP), Conrad, Delaney, Goetz, Harnick, Hodge, Katz, Miller, Padilla, and Parsons. Of these, Benedetti served as Associate Dean of the Graduate School, Norman served as Associate Dean of the College of Arts and Sciences, and Koenig's and Ruebush's primary commitment remained with the Department of Psychiatry. Our budgeted FTE faculty was 22.53 and, recognizing leaves, the functional FTE faculty was 21.19. Prof. Feeney was promoted to full Professor.

Jean Rogers and Min Kantrowitz served as part-time faculty members.

Affiliated faculty during the year were: Professor Lester Libo, Assistant Professors Philip Day, Rene Silleroy, Bret Snyder, and Louis Wynne; as well as Adjunct Associate Professors Bruce Porch and Joseph Schenkel; Adjunct Assistant Professor Kathleen Haaland; and Clinical

Both new appointments to the faculty were at the Assistant Professor level: Mark Brecht, Ph.D., Johns Hopkins University, 1978, whose area is human performance and applied psychology; and William Gordon, Ph.D., Rutgers University, 1973, whose area is animal learning and memory. Prof. Gordon held the rank of Associate Professor at SUNY, Binghamton, but was willing to accept an appointment at a reduced rank for this academic year.

Prof. Blake resigned from the department in 1978.

D. Colloquia. Distinguished speakers in our colloquium series during the year included: Robert Boice (University of Missouri), Kenneth H. Craik (University of California, Berkeley) with School of Architecture, Seymour Feshbach (UCLA), William A. Johnston (University of Utah), and Peter R. Killeen (Arizona State University).

In addition, several faculty were interviewed for our positions in learning-motivation, developmental, and human performance psychology. These were John Barth, Mark Brecht, William Gordon, William Jacobs, Clyde Pentz, Penn Pfautz, Michael Pressley, and all gave colloquium talks. 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.

E. Research. The department continued to be productive in its research efforts. We published 40 major articles or monographs, gave 92 lectures, workshops, or reports, and garnered \$197,000 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 probabilistic information

processing. In addition, studies of coding and organization in memory, and constructive processes in memory are being conducted. Studies of semantic memory and the role of context in sentence memory concern general problems in psycholinguistics. At the level of conceptual behavior we are doing research into the way humans learn rules and apply them. At another level we are carrying on studies of simple and choice reaction time, and in perception we are developing a model of color vision with the objective of describing the "space" of color in terms of Euclidean principles. Extensive research in animal learning and behavior, psychopharmacology, and physiological psychology was conducted. Studies of the effects of hormones on brain functioning and eating and drinking, and locomotor behaviors were conducted. Studies of animal discrimination learning, sensory preconditioning, aversive control, and dominance in animals were continued as part of long-term research programs. There is ongoing research on the effects of drugs on behavior, including long-term effects of drugs on complex processes. Major studies on the effects of marihuana are being conducted. 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 developmental, educational, clinical, and social psychology. 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. Another new area is research into hypnotic effects and various instructional procedures affecting hypnotic behavior. A project in the treatment of depression was

continued, as was a project on infant imitation and play. Studies in attribution and learned helplessness were initiated. Applied research in child development focused on individual instructional procedures and self-control in preschool children. Our faculty studies the role of dreams, the motives of sex molesters, adolescent suicide, 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 sex roles and sex differences in age concealment are being conducted. We also are involved in studies of learning disabilities of a wide variety with some emphasis on emotionally-based reading disabilities. We continue to work on grading practices and teacher evaluation. Studies in experimental social psychology continue with an emphasis on quantitative models in social psychology.

While this is not a complete 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.

F. Scientific and Professional Societies. Members of the department continued to play an active leadership role in scientific and professional societies. Prof. Ferraro served as Secretary of UNM's Sigma Xi and Secretary, SWARM Division of the American Association for the Advancement of Science; Prof. Grice served as Chairman of the Governing Board of the Psychonomic Society; Prof. Harris was elected President of the Southwestern Division of the Society for Multivariate Experimental Psychology; Prof. Katz founded the New Mexico Society for Clinical and Experimental Hypnosis; Prof. Logan became President of the Division of Experimental Psychology, American Psychological Association, and served as a member of the Council of Representatives of APA, and a member of the Executive Committee of the

Southwestern Psychological Association; Prof. Padilla served as a member of the American Psychological Association Minority Fellowship Program Committee; Prof. Rhodes served as a member of the Executive Board of the Albuquerque Association for Children with Learning Disorders; Prof. Rosenblum served as Chairman of the New Mexico State Board of Psychologist Examiners; and Prof. Ellis served as President of the Southwestern Psychological Association, Chairman of the National Council of Graduate Departments of Psychology, and as liaison member of the Education and Training Board of the American Psychological Association.

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 Profs. Ellis, Ferraro, Grice, Harris, Johnson, and Logan.

G. 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.

H. Space. Psychology has become crowded for space. All available space is currently used. As of this year we are unable to adequately house faculty except by using an office of a faculty member who will be on LWOP 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 one seminar room; 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. We may need space for a psychological clinic. 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. The department will begin discussion of new facility needs during 1978-79.

I. Administration and Support Staff. Henry Ellis served as chairman and Sidney Rosenblum 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 Sidney Rosenblum for his able assistance and to the faculty in general for its cooperation and support.

Eleanor Orth continued to serve in her very effective capacity as Office Manager. I wish to express my continued appreciation to her for helping make my administration effective. Her humor combined with her tireless efficiency made my task reasonable. LaNelle Ruebush continued to serve the department effectively as Department Secretary. Other

secretaries serving the department during the year were Joan Block, Maria Chavez, JoAnn Jaramillo, Virginia Moore, and Jill Ngola. Ector Estrada continued to supervise the animal facilities and Jim Casaus was hired as animal technician. Verlin Williams was hired as shop supervisor. In addition, during portions of the year, various students served as part-time clerical or lab assistants. Other departmental assignments were made among the secretaries in order to broaden their experiences with accounts, etc.

J. Plans for Graduating Seniors. We conducted a survey of the plans of graduating seniors. We surveyed 81 seniors by mail questionnaire. We have complete data on all our Masters and Ph.D. students, but only partial data on undergraduate seniors. Of those responding, the plans are as follows:

Total number of graduating seniors	81
Number continuing their education in Psychology . .	8
in Professional Schools	1
Number planning to look for work	9
Have actual offers	2
Do not have offers	7
 Total number of Master's degrees	 14
Number continuing their education in Psychology . .	13
in Professional Schools	0
Number planning to look for work	1
Has actual job	1
 Total number of Doctor's degrees	 7
Number having actual offers	7
Does not have offer	0

K. University Awards and Honors. Frances Harnick was selected as Outstanding Teacher for Undergraduates for the Year, and Henry Ellis was selected as the Annual Research Lecturer.

	70-71	71-72	72-73	73-74	74-75	75-76	76-77	77-78
Faculty Information								
Voting faculty (total)	17	18	20	20	19	20	24	26
Professors	7	7	7	8	8	11	11	11
Associate Professors	5	5	6	6	6	5	5	5
Assistant Professors	5	6	7	6	5	4	8	10
Budgeted FTE faculty	14	16.3	18.3	18.3	17.8	19.1	20.87	22.53
FTE faculty minus leaves	14	14	16.3	16.3	15.8	18.6	19.87	21.19
Faculty turnover (total)	1	0	0	2	1	0	0	1
Resignations	0	0	0	2	1	0	0	1
Tenure denials	1	0	0	0	0	0	0	0
Deaths and Retirements	0	0	0	0	0	0	0	0
Number of faculty engaged in								
Lower division teaching			11	11	11	11	10	10
Upper division teaching			14	16	16	18	20	22
Graduate teaching			16	19	14	19	17	20
Thesis/dissertation supervision			9	12	14	13	15	19

Undergraduate Education								
Introductory enrollment	3565	3580	3728	3318	3577	3745	4025	3756
Optional laboratories	1648	1883	1844	1401	1537	1327	1046	1117
Advanced enrollment	3324	4019	4749	4902	4424	4059 ^a	3797	3980
Optional laboratories	209	151	159	159	158	163	110	98
Graduating Majors	70	64	99	107	133	108	84	81
Graduating Minors	50	31	63	44	71	78	48	66

Graduate Education								
Graduate enrollment	300	413	459	432	372	362	362	384
Graduate assistants (budgeted)	11	11	12	13	14	12	12	12
Graduate assistants (authorized)	13	14	14	13	14	13	16	14
Research assistants	12	13	14	15	13	12	6	5
Fellows and Trainees	14	12	11	8	8	9	7	18
Tuition Scholarships			4	5	4	2	1	2
Master's Degrees	3	9	7	4	9	7	10	14
Doctoral Degrees	8	6	5	13	4	7	9	7
Applications received			250	154	195	250	350	267
Offered Admission			36	33	27	55	40	45
Accepted Admission			20	19	6	13	13	10
Graduate Students			56	66	56	60	56	51

Research Activities								
Books and Articles	32	25	29	20	36	26	34	40
Lectures and Reports	30	35	57	64	61	76	86	92
Extramural support (Q00)	\$306	\$284	\$235	\$260	\$300	\$268	\$138	\$197

General Information								
FTE Staff	2	2	3	3.3	4.4	5.2	6.3	9.8
Department Budget (000)	\$282	\$322	\$359	\$383	\$412	\$467	\$564	\$596

Grade Distributions (percent)

Lower Division (ex labs)								
A			15.4	14.6	16.4	14.5 ^b	13.6 ^d	15.0 ^e
B			23.5	27.1	25.0	24.3	21.3	24.3
C			32.9	36.8	35.3	29.5	30.3	24.6
D			8.4	11.0	10.6	13.6	13.8	13.3
F			7.1	8.0	8.8	11.0	12.9	16.3
CR			4.7	1.4	1.8	-	-	.8
Other			8.0	1.1	2.1	7.1 ^c	8.1	5.7

Upper Division (ex labs. prob.)

A	25.9	30.0	24.7	25.7	25.2	21.0
B	27.2	26.3	29.2	30.4	26.6	24.0
C	22.1	25.8	27.2	23.1	25.6	28.3
D	4.5	6.9	6.3	5.0	5.1	5.4
F	4.0	5.9	5.3	3.7	7.0	7.1
CR	4.4	2.0	3.3	-	-	1.2
Other	11.9	3.1	4.3	12.2	10.5	13.1

Graduate (ex prob., thesis, diss.)

A	64.6	53.2	59.4	44.0	47.7	33.7
B	16.1	27.6	26.4	12.8	16.2	20.4
C	5.8	4.6	2.4	3.0	2.3	1.2
NC	2.7	3.3	1.2	-	-	1.2
Other	10.8	11.3	10.6	40.2	33.7	33.5

^aActually no decrease--Psy. 201 not included as taught by Math dept.^bOnly Fall 75 grades used for 75-76 as analyzed by Institutional Research.^cIncludes CR, W, I, PR, NC.^dOnly Fall 76 grades included.^eFall 77.

January 1, 1977-December 31, 1977

II. Composite of information requested on individual biographical supplements.

1. Advanced study

- Gluck, John P.--Clinical Internship. Department of Psychiatry and Behavioral Science, University of Washington.
- Hodge, Gordon K.--Ph.D., University of California at Los Angeles, Los Angeles, California, degree granted: April, 1977. Dissertation title: Analysis of the role played by the substantia nigra in the mediation of ingestive, locomotor, and rotational behaviors as revealed by surgical and pharmacological manipulations.
- Katz, Norman--Professional certification as a psychologist in New Mexico, May, 1977 by the State Board of Psychologist Examiners.
- Koenig, Karl--One-week seminar in Human Sexuality by Masters and Johnson.
- Miller, William, R.--Certified as psychologist in New Mexico, May, 1977 by the State Board of Psychologist Examiners. Audited Dr. Harris' course in Multivariate Statistics.
- Roll, Samuel--Certification through Colegio Sierra Madre (Monterrey Montesorri) for course taken during academic year 1976-77 in Child's Growth and Development. Certificate awarded June 2, 1977.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel

- Ellis, Henry C.--Visiting Professor of Psychology, University of Hawaii, Summer, 1977.
- Feeney, Dennis M.--On sabbatical Fall, 1977.
- Gluck, John P.--Post Doctoral Fellow, Department of Psychiatry and Behavioral Sciences, University of Washington. (Sabbatical, Fall, 1977)
- Roll, Samuel--Sabbatical leave during academic year 1976-77 to Monterrey, Mexico. Time was spent in conducting cross-cultural research and providing supervision to Mexican professionals.

3. New scholastic honors, fellowships

- Ellis, Henry C.--President, Southwestern Psychological Association; Chairman, National Council of Graduate Departments in Psychology.
- Ferraro, Douglas P.--Promoted to Fellow, American Psychological Association, Divisions 25 and 28; Elected to Phi Eta Sigma and Phi Kappa Phi Honorary Societies; Secretary, SWARM Division of AAAS; Secretary, New Mexico Sigma Xi; Nominated UNM Teacher of the Year; Program Chairman, Psychology, AAAS; Recognition, Distinguished Professor, Universidad del Noreste, Tampico, Mexico
- Goetz, Therese E.--Chapter on "Attributions & Learned Helplessness" nominated for AAAS Social Psychology award by Philip Brickman.
- Katz, Norman--Appointed to national training faculty, International Society for Clinical & Experimental Hypnosis; Elected member, Association for the Advancement of Behavior Therapy.
- Roll, Samuel--Who's Who in the West.
- Rosenblum, Sidney--Who's Who in the West; Who's Who (Child Development); Dictionary of International Biography.

4. Publications

- Conrad, Carol--You've come a long way, baby - or have you. Review of Kennedy, A., & Wilkes, A. Studies in long-term memory in Contemporary Psychology, 1976, 21, 687-688.
- Delaney, Harold D.-- Probabilistic information processing: Effects of a biased payoff matrix on choices and bids. Organizational Behavior and Human Performance, 1977, 20, 203-237. (with T. S. Wallsten)
- Instructor's manual for second edition: Fundamentals of human learning, memory and cognition. Dubuque, Iowa: Wm. C. Brown Publishers, 1977, 43 pages. (with Henry C. Ellis)
- Ellis, Henry C.--Memory: The processing of information. In M. H. Marx & M. E. Bunch (Eds.), Fundamentals and applications of learning. New York: Macmillan, 1977, Ch. 7, pp. 191-221. (with R. R. Hunt)
- Transfer of training. In M. H. Marx & M. E. Bunch (Eds.), Fundamentals and applications of learning. New York: Macmillan, 1977, Ch. 10, pp. 293-315. (with R. R. Hunt)
- Perceptual grouping, input variability, and recall. Bulletin of the Psychonomic Society, 1977, 10, 25-27. (with C. R. Grah)
- Consistency of pairing and stimulus meaningfulness in transfer and recall. Journal of General Psychology, 1977, 96, 291-299. (with J. E. Schroeder)
- Interdependence in psychology. In A. J. Bahm (Ed.), Interdependence: An interdisciplinary study. Albuquerque: World Publishing, 1977. (with F. A. Logan)
- Feeney, Dennis M.--Marihuana and epilepsy. Science, 1977, 197, 1301-1302.
- Slow-wave sleep and epilepsy: Rostral thalamus and basal forebrain lesions suppress spindles and seizures. Experimental Neurology, 56, 1977. (with F. P. Gullotta and J. C. Pittman)
- Ferraro, Douglas P.--The UNM psychology reader. Lexington, Xerox, 1977. (with J. A. Parsons, eds.)
- Complex interactions: A functional approach. In B. C. Etzel, J. M. LeBlanc, and D. M. Baer (Eds.), New developments in behavior research: Theory, methods and applications. New York: Lawrence Erlbaum, 1977. (with J. A. Parsons)
- Preclinical effects: Unlearned behavior. In R. C. Peterson (Ed.), Marihuana and health. Washington: U. S. Government Printing Office, 1977.
- Preclinical effects: Learned behavior. In R. C. Peterson (Ed.), Marihuana and health. Washington: U. S. Government Printing Office, 1977.
- Preclinical chronic effects: Unlearned and learned behavior. In R. C. Peterson (Eds.), Marihuana and health. Washington: U.S. Government Printing Office, 1977.
- Within-subject analysis of the CS₁-CS₂ interval in sensory preconditioning with rats. Psychological Record, 1977, 27, 740-745. (with V. A. Spiker)

- Gluck, John P.--Acquisition and extinction of an operant response in differentially reared rats. Developmental Psychobiology, 1977, 10, (2), 143-149. (with H. P. Pearce)
Response suppression to a shock-predicting stimulus in differentially reared monkeys (*Macaca mulatta*). Developmental Psychology, 1977, 13, 295-296. (with R. G. Frank and T. S. Strongin)
- Goetz, Therese E.--Attributions and learned helplessness. In J. H. Harvey, W. Ickes, & R. F. Kidd (Eds.), New directions in attribution research, vol. 2, Hillsdale, N. J.: Lawrence Erlbaum Assoc., 1977.
- Grice, G. Robert--Information processing dynamics of human eyelid conditioning. Journal of Experimental Psychology: General, 1977, 106, 71-93.
Application of variable theory to choice reaction time. Perception & Psychophysics, 1977, 22, 431-449. (with R. Nullmeyer & V. A. Spiker)
- Harnick, Frances--Rethinking infant intervention: A change from what to how, JSAS Catalog of Selected Documents in Psychology, 1977, 7, 67.
- Harris, Richard J.--**DTA2PROG converts file, UNM Computing Center Newsletter, 1977, Vol. 11, No. 4, p. 56.
Multivariate statistics for program evaluation, Proceedings, Fourth Annual Conference and Exhibition on Measurement and Evaluation, March 22, 1977. Office of the Los Angeles County Superintendent of Schools. Pp. 47-58.
- Hodge, Gordon K.--Importance of the substantia nigra in rotational behavior of rats, Society for Neuroscience Abstracts, 1977, 3, 39.
Analysis of the role played by the substantia nigra in the mediation of ingestive, locomotor, and rotational behaviors as revealed by surgical and pharmacological manipulations. (Doctoral dissertation, UCLA, 1977), Dissertation Abstracts International, 1977, volume 38, p. 953B.
- Logan, Frank A.--Hybrid theory of classical conditioning. In G. H. Bower (Ed.), The psychology of learning and motivation (Vol. II). New York: Academic Press, 1977, 203-243.
- Miller, William R.--Understanding alcoholism and problem drinking. Half Moon Bay, CA: Social Change Associates, 1977. Cassette tape series and programmed instruction course. (with S.R. Hamburg & V. Rozyenko)
Behavioral self-control training in the treatment of problem drinkers. In R. B. Stuart (Ed.), Behavioral self-management: Strategies and outcomes. New York: Brunner/Mazel, 1977. Pp. 154-175.
Review of First person singular: Living the good life alone by S. M. Johnson. Association for Advancement of Behavior Therapy Newsletter, 1977, 4 (5), 20-21.

4. Publications (cont.)

Miller, William R. (cont.)

Abstinence and controlled drinking in the treatment of problem drinkers. Journal of Studies on Alcohol, 1977, 38, 986-1003. (with G.R. Caddy)
The Banff Skiism Screening Test: An instrument for assessing degree of addiction. Addictive Behaviors, 1977, 2, 81-82. (with G.A. Marlatt)

Norman, Ralph D.--Sex differences in attitudes toward arithmetic-mathematics from early elementary school to college levels. Journal of Psychology, 1977, 97, 247-256.

Padilla, Eligio R.--Transcultural Psychiatry: An Hispanic Perspective. UCLA Spanish Speaking Mental Health Research Center Monograph No. 4, 1977. (with A.M. Padilla)

La psicología como instrumento del estado. In D. Maciel (Ed.), La Otra Cara de México: Los Chicanos. Mexico City, 1977. (with E. Rona)

Hispanics in Clinical Psychology: 1970-76. In UCLA Spanish Speaking Mental Health Research Center Monograph No. 5, 1977. Hispanic Mental Health Professionals. (with E.L. Olmedo and S. Lopez)

Familios latinos en los Estados Unidos: Temos de investigacion, Boletín de la Sociedad Inter-americana de Psicología, March, 1977. (with A. M. Padilla)

MMPI differences among black, Mexican American and white male offenders, Journal of Clinical Psychology, 1977, 33, 171-177.

Parsons, Joseph A.--The UNM Psychology Reader, Lexington, Massachusetts, Xerox Individualized Publishing, 1977, (159 pages) (with D.P. Ferraro).

Complex interactions: A fuctional approach. In B. C. Etzel, J. M. LeBlanc, and D. M. Baer (Eds.), New Developments in Behavioral Research, New York, Lawrence Erlbaum Assoc., 1977, 237-245.

Roll, Samuel--Relationships between sons' feelings of being understood by their fathers and measures of the sons' psychological functioning. Journal of Genetic Psychology, 1977, 130, 14-25. (with L. Millen)

Adolescent males' ratings of being understood by fathers, best friends and significant others. Psychological Reports, 1977, 40, 1079-1082. (with L. Millen)

Ruebush, Britton K.--1977 Annual Report of the Albuquerque Child Guidance Center. Albuquerque Child Guidance Center, Albuquerque, NM.

5. Other research projects or creative work in progress or completed during period

Conrad, Carol--NIMH grant, \$6,076, Bilingual Integration of Semantic Information. 5/77 to 4/78.

A methodology for assessing language lateralization. In preparation with T. Friden.

Delaney, Harold D.--Individualized branching strategies in computer-assisted instruction. Preliminary grant proposal submitted to the Exxon Education Foundation Research & Development Program.

Interaction of individual differences with visual and verbal elaboration instructions. Journal of Educational Psychology, in press.

Delaney, Harold D.--(cont.)

Effects of mastery criteria on student performance. Submitted to the Journal of Personalized Instruction. Co-author: Joseph A. Parsons.

Ellis, Henry C.--Fundamentals of human learning, memory, and cognition.

Dubuque: Wm. C. Brown, 1978, 344 pp.

Human memory and learning: The processing of information. In M. E. Meyer (Ed.), Foundations of psychology. New York: Oxford, 1978, in press. (with J. Goggin & F.J. Parente)

The psychology of learning and memory. Brooks/Cole, 1978, in press.

Constructive processes in memory: Abstraction and elaboration.

Psychological Bulletin, 1978, in preparation. (with P. Hertel)

Stimulus structure and the "variability effect" in free recall.

Cognitive Psychology, in preparation. (with F. J. Parente)

Context effects in recognition memory and recall: Retrieval and decision processes in memory. Journal of Experimental Psychology:

Human Learning and Memory, in preparation. (with C.R. Grah, R.R. Hunt, & F. J. Parente)

Project Director, NIMH Training Grant (National Research Service Award), 1977-1982, \$43,000/yr.

Continued research in Human Memory, Learning, and Cognitive Processes: Projects on Organization in Memory, Encoding Processes, Perceptual Grouping and Memory, Face Recognition and Eyewitness Identification, Retrieval Processes, and Perceptual Learning.

Feeney, Dennis M.--Pilot work on description of brain injury.

Ferraro, Douglas P.--Systematic analyses of behavior: Basic learning and motivational processes. New York: Wiley, in press. (with Frank A. Logan)

Behavioral tolerance to marihuana. In N.R. Karsnegor (Ed.), Behavioral tolerance: Implications for research and treatment of substance abuse. Washington, U.S. Government Printing Office, in press.

Behavioral pharmacology and the stimulus control of behavior. In Proceedings: III Congreso Mexicano de analyses de la conducta. Mexico: Universidad Nacional de Mexico, in press.

Friden, Thomas P.--Statistical predictions of recovery from aphasia, submitted to Journal of Speech and Hearing Disorders.

Gluck, John P.--Long-term effects of early social isolation in rhesus monkeys (Macaca mulatta). In S. Suomi (Ed.), Early experience and development. New York: Academic Press, in press. (with R. G. Frank, & T. S. Strongin)

Development of social behavior in an adult total isolate rhesus monkey (Macaca mulatta). Journal of Autism and Childhood Schizophrenia, in press. (with T. S. Strongin & R. G. Frank)

An overview of methodological and statistical problems in observational research. In G. P. Sackett (Ed.), Observing behavior: Data collection and analysis methods. Baltimore: University Park Press, in press. (with G. P. Sackett & G. C. Ruppenthal)

5. Other research projects or creative work in progress (cont.)

- Goetz, Therese E.--Initiating research on cultural differences in patterns of coping with negative evaluation.
- Grice, G. Robert--Research Grant from DHEW, NIMH, \$100,800, Principles of Response Evocation, 4/1/77 to 3/31/80.
- Harnick, Frances--The relationship between ability level and task complexity in producing imitation in infants. Child Development, in press.
 Infant and toddler play in symmetrical and asymmetrical play conditions. submitted to Child Development, 1977. (with M. Joyce)
 Research project on ritual play in infants. (with H. Delaney & M. Joyce)
- Harris, Richard J.--Applicability of equity theory to negative-input situations.
 Anglo-Chicano differences in academic preferences and performance.
 Tests of altruism modification model of behavior in experimental games.
- Hodge, Gordon K.--Pharmacological effects on locomotor activity in rats with bilateral radio-frequency lesions of the substantia nigra and other areas, in preparation. (with L. L. Butcher)
 Alterations in open field activity in rats with bilateral radio-frequency lesions of the ventral tegmentum, in preparation. (with M. Boyeson and R. Linn)
 Electroconvulsive shock produces rotations in rats with unilateral radio-frequency lesions of the ventral tegmentum, in preparation. (with T. Hall and J. Toft)
 Efficacy of EMG biofeedback training in relieving symptomatology of hyperkinetic children, in preparation. (with T. Glomi)
- Johnson, Peder J.--Locus of Perceptual Pretraining Effect upon Children's Conceptual Behavior. In revision for Journal of Experimental Child Psychology, (with T. Toppino and N. Lee)
 Effects of Defining Features upon Analog Encoding of Conceptual Categories. In revision for Journal of Experimental Child Psychology (with Gale Sutton)
- NICHHD, \$44,166 in direct costs with 43% overhead, Influence of Strategies in Children's Cognitive Functioning, from 1975 to May 1978.
- Katz, Norman--Hypnosis and stress related memory: An experimental investigation of "Hypnotic Crime Detection." Project in progress (with C. Conrad) Research Allocations Grant.
 Paper submitted to the International Journal of Clinical and Experimental Hypnosis: Hypnotic inductions as training in self control.
 Comparative efficacy of behavioral training, training and relaxation, and hypnotic inductions for increasing suggestibility. Paper submitted to Sound of Abnormal Psychology.
 Training subjects to experience deep hypnosis: A learning based experimental program. A research program which has completed pilot work, full scale research begins next semester. Funded by Research Allocation.
 Hypnosis peak shift in human subjects. Pilot research program completed.
 Hypnosis: Cognitive self control. Lecture/Demonstration/Workshop proposal accepted for Division of Clinical Psychology meetings, 3/1/78.

5. Other research projects or creative work in progress (cont.)

Katz, Norman (cont.)

A little skill and a little trance: Maximizing hypnotic responsiveness. Paper submitted for presentation at the annual International Society of Clinical-Experimental Hypnosis Meetings, 1978. (with Lloyd Crawford)

Logan, Frank A.--Systematic analyses of learning and motivation. New York: Wiley. (In press.) (with D.P. Ferraro)

Differential trace conditioning to temporal compounds. Animal Learning and Behavior. In press.

NSF Research Grant (\$35,000)

The incentive value of information. (Under review. With Wootton)

Punishment of instrumental and consummatory responses. (Under review. With Rodriguez)

The free sexual behavior situation. (In preparation. With F. A. Beach, University of California)

Miller, William R.--Computer program for estimating blood alcohol concentration: Applications in therapy and research. (with D. Matthews)

Multivariate prediction of outcome in the behavioral treatment of problem drinkers. (with M. Joyce)

Nature and sequence of neuropsychological deficits in alcoholics. (with J. Orr)

Relative effectiveness of bibliotherapy, individual and group self-control training in the treatment of problem drinkers. (with C. Taylor)

Evaluation of a module program for problem drinkers. (Grant funded by the National Institute on Alcohol Abuse and Alcoholism, \$4985) (with C. Taylor)

Comparative efficacy of learning-theory-based treatments of depression. (with N. Katz)

Paraprofessionals, partners, peers, paraphernalia, and print: A model for the use of adjunctive agents in prevention, treatment and maintenance. Professional Psychology, in press. (with A. Christensen, and R. F. Munoz)

Preface to A. Winters, Alternatives for the problem drinker. New York: Drake, in press.

Behavioral treatment of problem drinking: A comparative outcome study of three controlled drinking therapies. Journal of Consulting and Clinical Psychology, in press.

Anxiety and perceived causation in social success and failure experiences: Disconfirmation of an attribution hypothesis in two experiments. Journal of Abnormal Psychology, in press.

Norman, Ralph D.--Social class and ethnicity effects upon clinical judgments (submitted for 1978 RMPA meeting). (with R. Martinez)

Padilla, Eligio R.--Inhalant, marijuana and alcohol abuse among barrio youth and adolescents. Accepted for publication by the International Journal of the Addictions. (with A.M. Padilla, R. Ramirez, A. Morales, & E. L. Olmedi)

5. Other research projects or creative work in progress (cont.)

Padilla, Eligio R.--(cont.)

The effects of intelligence and achievement testing on minority group children. In G. W. Powell, A. Morales and J. Yamamoto (Eds.), The Psycho-social Development of Minority Group Children. New York: Bruner/Mazel. To be published in 1978. (with G. Wyatt)

Parsons, Joseph A.--Effects of unit quiz mastery criteria on student performance. Submitted to The Journal of Personalized Instruction (under review) (with H. Delaney)

Student achievement as a function of proctor activity. Research completed, data to be presented at Midwest Association of Behavior Analysis, manuscript in progress.

Auditory stimulus control and peak shift in college students. Data collected but not as yet analyzed.

The precurrent response function in young children's memory. Data currently being collected.

The precurrent response function in pigeons' memory. Proposed research project to be conducted Spring semester.

Rhodes, John M.--Cognitive Factors in Focal Brain Disease (in progress) (with P. Turner, Neurosurgery)

Musical Recognition in Normals and Brain Damaged (in progress)

Roll, Samuel--Chicano dreams: Investigations in cross-cultural research. In Herrera and Sam Vargas (Eds.), The chicano community: Psychological theory and practice. (in press) (with B. Brenneis)

Adolescent males' feelings of being understood by their fathers as revealed through clinical interviews. Adolescence. (in press) (with L. Millen)

Fingertip skin temperature as an indicator of affect arousal. Psychotherapy: Theory, Practice and Research. (in press)

Rosenblum, Sidney--Developmental aspects of humor.

Learning and Behavior Problems in Children and Youth. Text with B. Ruebush.

Ruebush, Britton K.--Evaluations of Clinical Services. Continuing research projects. Results published in Annual Reports of Albuquerque Child Guidance Center.

Mental Health Programs and Services in New Mexico. In preparation. To be published in P.O.C.A. Press. New York.

6. Activities in learned and professional societies.

Benedetti, David T.--Attended annual meeting, Western Association of Graduate Schools, March 6-8, 1977, Albuquerque.

Attended annual meeting, Rocky Mountain Psychological Association, May 11-14, Albuquerque.

Conrad, Carol--Attendance at conference on Metaphor and Thought at University of Illinois in Urbana-Champaign, September 26-29, 1977.

6. Activities in learned and professional societies

- Delaney, Harold D.--Direction and unit size of practice in learning an ordered list. Presented to the Rocky Mountain Psychological Association, Albuquerque, May, 1977. (with J. Parsons, A. Blumenthal, M. Joyce, & R. Surber).
- An extension of the RTI model and its optimal instructional strategy. Presented to the Psychometric Society, Chapel Hill, NC, June, 1977.
- Ellis, Henry C.--President, Southwestern Psychological Association, 1977-78. Elected Chairman, National Council of Graduate Departments of Psychology, 1977-79.
- Liaison Member, Education and Training Board, American Psychological Association, 1977-79.
- Attended meeting of the Executive Board, National Council of Graduate Departments, and Executive Staff, APA, Washington, D.C., Jan. 1977.
- Attended meetings of the Rocky Mountain Psychological Association, Albuquerque, May 1977. Presented papers: Memory for bizarre information (with Hertel), Theoretical interpretations of the repetition-lag effect in memory (with Tyler), Test effects in cued recall following varied or constant input (with McCallum).
- Attended meetings of the Southwestern Psychological Association, Fort Worth, Texas, April 1977. Discussant on panel on Human Memory.
- Attended meetings of the APA and the National Council of Graduate Departments of Psychology, San Francisco, Sept. 1977.
- Attended meetings of the Psychonomics Society and the Executive Board of the National Council of Graduate Departments of Psychology, Washington, D. C., Nov. 1977.
- Attended meetings of Department Chairs, Southeastern Psychological Association, Atlanta, Dec. 1978.
- Feeney, Dennis M.--Mathematical prediction of human post-traumatic epilepsy. Paper presented at Society for Neuroscience, Anaheim, California, Nov. 1977. (with A. E. Walker)
- Ferraro, Douglas P.--Secretary, Sigma Xi.
- Program chairman, psychology section, American Association for the Advancement of Science meetings
- Attended meetings of the Southwestern Psychological Association; Rocky Mountain Psychological Association; Southwestern Educational Research Association; Congreso Mexicano de Analisis de la Conducta; Behavior Pharmacology Society.
- Papers read:
- Behavioral tolerance and reinforcement loss, SWPA.
- Transfer of response sequences in monkeys, RMPA.
- Invited address: Stimulus control of drugs, Congreso Mexicano de Analisis de la Conducta
- Invited address: Behavioral tolerance, Behavior Pharmacology Society.
- Friden, Thomas P.--Objective differentiation of aphasic versus non-organic patients. Paper presented at the International Neuropsychological Society meetings, February, 1977. (with B. Porch and J. Porec)
- At Santa Fe, NM.

6. Activities in learned and professional societies

- Gluck, John P.--Long-term effects of early social deprivation. Presented at the Rocky Mountain Psychological Association, Albuquerque, April, 1977.
- Dominance relationships between early socially isolated rhesus monkeys (*Macaca mulatta*). Presented at the inaugural meeting of the American Society of Primatologists, Seattle, April, 1977.
- Early experience and intellectual development. Presented to Nursery Care of Nonhuman Primates, sponsored by Child Development and Mental Retardation Center, University of Washington, Seattle, May, 1977.
- The intellectual consequences of early social deprivation in monkeys, apes and man. Invited lecture, Charles Strothers Seminar Series. Child Development and Mental Retardation Center, University of Washington, Seattle, May, 1977.
- Grice, G. Robert--Psychonomic Society: Chairman of Governing Board, 1977. Member, publication committee, meeting attended Nov. 1977.
- Southern Society of Philosophy and Psychology: Invited address: "Response Latency and the Choice of the Correct Response" April, 1977.
- Attended Society of Experimental Psychologists and Rocky Mountain Psychological Association meetings.
- Harnick, Frances--Attended SRCD meeting, New Orleans, April, 1977. Read paper at RMPA, Albuquerque, 1977.
- Harris, Richard J.--Elected president, Southwestern Division of Society for Multivariate Experimental Psychology, for 1977-78.
- Multivariate statistics for developmental data. Workshop presented at conference on statistical analysis of child development data, New Orleans, March 20, 1977.
- Attended meetings of Society for Research in Child Development, New Orleans, March 17-20, 1977.
- Multivariate statistics in program evaluation. Three-hour workshop presented at 4th Annual Conference and Exhibition on Measurement and Evaluation, Los Angeles, March 22, 1977.
- Recent developments in canonical correlation. Invited paper, SWPA, Fort Worth, Texas, April 21, 1977.
- Elected to membership in New Mexico Psychological Association.
- Hodge, Gordon K.--Chaired a section of RMPA.
- Katz, Norman W.--Attended Society for Clinical & Experimental Hypnosis meetings. Los Angeles, October, 1977.
- Hypnotic inductions as training in self-control, paper presented at the APA convention, August, 1977.
- Founded New Mexico Society for Clinical & Experimental Hypnosis, Nov., 1977. This is a professional forum for sharing research development & ideas, clinical cases, and advancing training in the professional use of hypnosis by physicians, psychologists, and dentists. Over 50 professionals & graduate students attended our first meeting. We hope to affiliate with the National Society of the same name.

6. Activities in learned and professional societies.

Katz, Norman W.--(cont.)

Proposal for workshop in "A Skill Model of Hypnosis". Accepted for California State Psychological Convention, Jan, 1978.

Co-led workshop on "Hypnosis & Dentistry" for New Mexico Academy of Dentistry, April, 1977. (with Dr. J. Chaves)

Hypnosis and the treatment of depression, paper presented at Grand Rounds, Department of Psychiatry, UNM Medical School, March, 1977.

Play therapy, paper presented at Grand Rounds, Department of Pediatrics, UNM Medical School, Jan. 1977.

Koenig, Karl--Committees joined, "Continuing Education" AABT.

Logan, Frank A.--Assumed role of President, Division of Experimental Psychology, American Psychological Association. (APA)

Member, Council of Representatives, APA

Executive Committee, Southwestern Psychological Association (SWPA)

Symposium: Current trends in learning theory. SWPA.

Miller, William R.--Meetings attended:

Association for Advancement of Behavior Therapy, Dec., 1977, Atlanta.
American Association for the Advancement of Science, Feb. 1977, Denver.
NATO International Conference on Behavioral Approaches to Alcoholism, August, 1977, Bergen, Norway.

RMFA, May, 1977, Albuquerque. Chaired paper sessions on "Training Therapeutic Skill" and "Treatment Outcome Research"

Papers presented:

Behavioral assessment and treatment of problem drinkers, workshop at AABT

Controlled drinking as a goal in the treatment of problem drinkers: Outcome after three years and three studies. (AAAS)

Self-control training for problem drinkers with a goal of controlled drinking: Results and reflections after four treatment outcome studies. (NATO)

Norman, Ralph D.--Treasurer and Membership Chairman, NMPA.

Developmental Sex Differences in Arithmetic-Mathematics Attitudes.

Paper read at RMFA annual meeting, Albuquerque, May, 1977.

Anti-feminism and the negative imperative in the male, paper read at APA, San Francisco, August, 1977.

Padilla, Eligio R.--American Psychological Association Minority Fellowship Program Advisory Committee, 1977-80.

Parsons, Joseph A.--Invited address: Cognition is behavior, presented at the Annual Meetings of the Midwest Association of Behavior Analysis, Chicago, May 1977.

Rhodes, John M.--Local Arrangements Chairman for International Neuropsychological Society. Feb. 1977.

Member of Program Committee for INS, Feb. 1977.

Lecturer for Practical Clinical Neurology Seminar, Nov. 1977.

Attended American Psychological Association meetings, Sept. 1977.

Consultant/lecturer for Regional Council of Exceptional Children meetings, Oct. 1977.

6. Activities in learned and professional societies.

Roll, Samuel--Attendance at several professional meetings in New Mexico and in Mexico.

Invited examiner for New Mexico Board of Psychological Examiners.

Rosenblum, Sidney--Aspects of the Interactional Process in Clinical Assessment. Paper presented at the Child Abuse and Neglect Symposium, Albuquerque, Nov. 1977.

Workshop. Effective communicating with parents of head start children, Bernalillo County Head Start, August 1977.

Workshop. Certification in New Mexico, American Association of State Psychology Boards, Albuquerque, May 1977.

RMPPA, Albuquerque, May, 1977.

Ruebush, Britton K.--Factors Correlated with Return or Non-return of Clients Following the Initial Evaluation. Paper read at the 1977 Annual Meeting, RMPPA.

Attended Annual Meeting, Psychiatric Outpatient Centers of America, New Orleans.

7. Other professional activities.

Benedetti, David T.--Reviewed, with J.M. Rhodes, Publisher's manuscript of book on psychology of adjustment, April 1977.

Conrad, Carol--Participant in workshop on jury selection techniques sponsored by Albuquerque Public Defenders Office in conjunction with New Mexico Bar Association Convention, Albuquerque, Oct. 1977.

Ellis, Henry C.--Regular Journal Editing:

Perception and Psychophysics, 1971-

Psychological Reports, 1963-

Perceptual and Motor Skills, 1963-

Journal of Experimental Psychology: Human Learning and Memory, 1974-76

Journal of Experimental Psychology, 1967-74

Consultant, Brooks-Cole Publishers

Consultant, Public Defender of New Mexico

Colloquium, University of Alabama, Dec. 1977

Consultant, Oxford University Press

Consultant, Allyn & Bacon

Ferraro, Douglas P.--Reviewer:

National Research Council

National Institute on Drug Abuse

Canadian Directorate on the Non-medical Use of Drugs

Psychopharmacologia

Pharmacology, Biochemistry and Behavior

Also served as occasional reviewer for National Science Foundation,

Journal of Experimental Psychology, Animal Learning and Behavior,

Journal of Consulting and Clinical Psychology.

Consultant: National Institute on Drug Abuse; Professional Standards Review Organization; Navajo Teacher Education Development Project; Bureau of Indian Affairs; Expert witness in several trial cases.

7. Other professional activities

Friden, Thomas P.--Member of the Executive Committee, VA Cooperative study on aphasia.

Attended meeting in Madison, Wisconsin in August.

Consultant to the Albuquerque Veterans Hospital.

Gluck, John P.--Animal Behavior and Zoo Management (10 lectures to Staff of Rio Grande Zoo, Albuquerque, N.M.)

Primate Behavior: Lecture presented to the anthropology section, Eldorado High School, Albuquerque, New Mexico, Feb. 1977.

Goetz, Therese--Editorial Consultant: Journal of Experimental Social Psychology

Consultant (periodic): Introspect (Communication/management)

Harnick, Frances--Faculty advisory board of Esperanza School.

Consultant: Lamaze Child Bearing Classes.

Workshop: Baltimore City Public Schools, Dec. 1977.

Harris, Richard J.--Appointed to editorial board, Journal of Experimental Social Psychology, January 20, 1977.

Appointed to editorial board, Journal of General Psychology, Dec. 1977.

Refereed numerous papers for Journal of Experimental Social Psychology, Journal of Personality and Social Psychology, Personality and Social Psychology Bulletin, Psychological Bulletin, and Newsletter of the Society for the Advancement of Social Psychology.

Refereed textbook manuscripts for Brooks/Cole and Addison-Wesley.

Report to court on minority group reactions to police harrassment (see 1976 annual supplement) led to overturn of conviction in Charles Brown case, order for retrial.

What's fair? In search of the equity formula. Colloquium at NMSU, Mar. 4, 1977.

Hodge, Gordon K.--Refereed a physiological psychology text for Mosby, Inc.

Refereed a paper submitted to the journal Pharmacology, Biochemistry, and Behavior.

Katz, Norman W.--Appointed consultant to psychology service, Veterans Administration Hospital, Albuquerque, NM.

Presented two programs at Albuquerque Child Abuse Symposium: "Play Therapy" and "Diagnostic Testing and Treatment Planning" - Oct. 1977.

Workshop in Basic Clinical Hypnosis, Family Practice Clinic, UNM Medical School.

Presentation to U.S. Rural Physician Program, Oct. 1977 on Relaxation skills for patient management.

Miller, William R.--Speaking engagements: Indian Health Service;

Department of Psychiatry, Grand Rounds; Religious Awareness Week, UNM; Civitans; Albuquerque Childbirth Association.

Communications skills workshops: New Mexico Hospital Association;

Senior high youth retreat, Presbytery of Santa Fe, United Presbyterian Church.

7. Other professional activities

Miller, William R.--(cont.)

Editorial consultancies:

Journal of Consulting and Clinical Psychology

Canadian Journal of Behavioral Science

Mayfield Publishing Company

Prentice-Hall, Inc.

Several TV appearances regarding Alcohol Research and Treatment Project.

Advisory Board Member, Association of Drinkwatchers.

Parsons, Joseph A.--Consultant: Review of text manuscript for Prentice-Hall entitled Studying Children by Dr. Vasta.

Review of text manuscript for Prentice-Hall entitled Child Development I: A Systematic and Empirical Theory by Dr. Bijou.

Rhodes, John M.--Consultant for APS on Neuropsychological Problems; Consultant for Laguna Pueblo Special Education Programs (Staffing, May, 1977)

Roll, Samuel--Invited lectures at Universidad Regimontano in Monterrey, Mexico and at Universidad Autonoma in Saltio, Mexico.

Consultant: Public Defender of New Mexico; Family Resource Center of New Mexico.

Workshop in the use of the Rorschach in Monterrey, Mexico.

Expert witness in criminal and custody cases.

Rosenblum, Sidney--Radio panel: TV, Violence and Children, KUNM, April 12, 1977. Six presentations to off-campus groups.

Mental Health Consultant, Bernalillo County Head Start.

Preceptor, School of Medicine, UNM (Also Clinical Associate, Psychiatry)

Chairman, New Mexico State Board of Psychologist Examiners.

Editorial Consultant: Brooks/Cole; Holt, Rhinehart, Winston.

Dissertation director: Doris C. Sahd, Ph.D., Howard G. Shore, Ph.D.

Ruebush, Britton K.--Member, Board of Directors, Psychiatric Out-patient Centers of America (P.O.C.A.)

Presented workshop, Behavioral methods of changing children's

behavior. School for Me, Navaho Indian Reservation, July 14, 15, 1977.

Attended workshops: Problem-based learning. H. Barrows, M.D. May, 1977.

Family Therapy. J. Raynak, M.D., & J. Heard, Ph.D. Sept. 1977

8. Non-teaching University service

Benedetti, David T.--Associate Dean, Graduate School, 2/3 time (2 mos. full-time summer)

Member, University Graduate Committee (Spring, 1977); A & S Graduate Committee (Fall, 1977); Chairman, University Graduate Committee on Fellowships; Academic Calendar Advisory Committee.

Member, four department committees.

Conrad, Carol--UNM computer-use committee; A & S Human Subjects Committee; Dept. committees: six, chairing one.

8. Non-teaching University service (cont.)

Delaney, Harold D.--Faculty advisor, Lobo Inter-Varsity Christian Fellowship; Member, Curricula Committee; Participant, Orientation Program of the Dean of Students Office; Presidential Scholar Advisor; Dept. Committees: six.

Ellis, Henry C.--Department chairman.

Committees: Faculty Senate--Executive Committee, Operations Committee; Equal Employment Opportunity; University Retirement and Benefits Committee; University Bilingual Committee; University Gerontology Committee:

Departmental committees: seven

Recruiting Trip (Women and minorities), Nov. 1977.

Chaired Dissertation Committees--Charles Grah, Brian Babbitt, Steve Hayward.

Chaired Theses Committees--Paula Hertel, Sherman Tyler, Marvin McCallum
Directed Honors Project--Sharon Green.

Feeney, Dennis M.--Served on 6 department committees and chaired 2.

Ferraro, Douglas P.--Chairman, Research Policy Committee (Jan.-Aug.); Vice President's Council on Cost Sharing; Subcommittees on Research Administration and Interdisciplinary Research; Department committees: six, chaired three.

Friden, Thomas P.--Chairman, Research Allocations Committee; Ex officio member of the Research Policy Committee; Member, Research Administration Subcommittee; Member, Research Budget Subcommittee; Chairman, Graduate Admissions Committee; Chairman, ad hoc Faculty Search Committee; Departmental committees: seven, chaired two.

Gluck, John P.--Assistant Chairman, Dept. of Psychology (1/77 to 5/77); Acting Chairman, Dept. of Psychology (6/77 to 7/77); Director, Dept. of Psychology Animal Facility (1/77-8/77).

Direction of theses and dissertations:

Senior honors theses: R. Joy, V. Rodriguez, D. Sanders, and J. S. Thompson.

Masters theses: R. G. Frank and T. S. Strongin

Goetz, Therese E.--Dept. of Psychology committees: four

Grice, G. Robert--Department of Psychology committees: six

Harnick, Frances--Faculty Ethics Committee; Faculty Library Committee; Dept. of Psychology committees: six, chaired two

Harris, Richard J.--Guest lectured in Psych. 650 (twice) on social psych. implications for and use of multivariate statistics in program evaluation; in Psych 202 on methodological problems associated with use of masses of available data in Anglo/Chicano study; and in Psych 371 on mathematical models in social psychology. Consulted with Dr. Dennis Feeney on math model for delayed onset of epileptic complications following head injury.
Department of Psychology committees: six, chaired two

8. Non-teaching University service

Hodge, Gordon K.--Dept. of Psychology committees, seven, chaired one

Johnson, Peder J.--Chaired Dissertation: E. Rappaport; Dept. of Psychology committees: six, chaired 2.

Katz, Norman--Faculty Advisor for Presidential Scholar Program; Dept. of Psychology committees: five.

Koenig, Karl--Dept. of Psychiatry: Exec. Committee, Management Committee

Logan, Frank A.--Dept. of Psychology committees: eight.

Director, NIMH Training Grant, Experimental Psychology of Learning (Spring)

A & S Committees: Graduate committee and Promotion Committee

University committee: Research Policy Committee

Miller, William R.--Ad Hoc Committee on Arts Therapy;

Departmental committees: four

University Committee on Human Subjects

Thesis and Dissertation Committees:

Thomas Boyd (M.A.; chair)

Katheryn Spiering (Ph.D)

Michael Rodriguez (M.A.; chair)

Michael Schmidt (Ph.D.; chair)

Daniel Matthews (Ph.D.)

Norman, Ralph--Member, A & S Health Sciences Committee; Dept. of Psychology committees: six

Padilla, Eligio R.--Dept. of Psychology committees: five

Parsons, Joseph A.--Dept. coordinator for High School-University activities.

Member of Institute for Applied Research Services Advisory Committee;

Dept. of Psychology committees: seven, chaired two

Rhodes, John M.--Member, Academic Senate; Member, Graduate Programs

& Standards for Senate; Member, Graduate Committee (April, 1977);

Member, Advisory Committee for Accreditation.

Dept. of Psychology committees: six.

Roll, Samuel--Served on departmental committees: six, chaired one.

Chaired thesis committee for Stefani Nervig; chaired dissertation committee for John Jacobson and Sarah Feeney.

Rosenblum, Sidney--Assistant Chairman, Department of Psychology (1977-78)

Director of Clinical Training.

Ad Hoc Committee to Evaluate Graduate Offerings in Department of Music.

Faculty-Staff Coordinator, "Faculty Follies," 1977.

Dept. of Psychology committees: seven, chaired one

8. Non-teaching University service (cont.)

Ruebush, Britton K.--Director, Albuquerque Child Guidance Center.
 Dept. of Psychiatry: Executive committee; Children's committee;
 Children's Psychiatric Center Program Planning Committee;
 Children's Psychiatric Center Advisory Committee
 Dept. of Psychology: four committees

9. Public service

Delaney, Harold D.--T.V. appearance for World Vision, an emergency relief and child care agency.
 Discussant, film series, Grace Church.

Ellis, Henry C.--University Swim Team, Sponsor.
 Little League Soccer, Sponsor

Feeney, Dennis M.--Chairman, Board of Directors, for Career Services for the Handicapped, Inc.

Ferraro, Douglas P.--Presbyterian Hospital Heart Fund.
 Board of Directors, Villa de Paz.
 Advisor, National Organization for the Reform of Marihuana Laws.

Gluck, John P.--Health advisory panel, Rio Grande Zoo, Albuquerque, NM.

Goetz, Therese E.--Advisor to the Youth Ministry, Church of the Anunciation.

Harris, Richard J.--Publicity chairman and course surveyor, Albuquerque Roadrunners Club

Katz, Norman--Volunteer consultant to Albuquerque Child Guidance Center.
 Speaker for UNM Speakers' Bureau twice this last semester.

Koenig, Karl--Vice Chair, Board of Trustees, Sandia Preparatory School.
 Board Member, "Alternatives"

Miller, William R.--Educational services to St. Andrew United Presbyterian Church: Director of Adult Education program; taught 7 week class on alcoholism and problem drinking; taught 7 week class on communication skills.

Music: guitarist and soloist for worship services, St. Andrew's;
 guitarist and soloist for heritage worship service, sponsored by New Mexico Historical Society, Jemez National Monument; arranger, guitarist, and soloist for choral presentation of Godspell, St. Andrew's

Parsons, Joseph A.--Liaison for High School Students interested in Psychology.
 Talks to psychology classes in area high schools.

Rhodes, John M.--Member, Executive Board at Albuquerque Association for Children with Learning Disabilities.

Roll, Samuel--Consultant and lectures given as a public service to Child Abuse Committee; Albuquerque Public Schools, State of Nuevo Leon, Mexico and other agencies.

9. Public service

Rosenblum, Sidney--Arts Judaica Committee, Congregation B'nai Israel

Ruebush, Britton K.--Trustee, Board of Trustees, Albuquerque Academy;
Chairman, Education Comm. Chairman, Ad Hoc Committee on Community
Relations.

Member, United Way Executives Committee

10. Personal information

Ferraro, Douglas P.--Married to Sandra Jean Odell

Goetz, Therese E.--Married to Ronald J. Lipinski on July 30, 1977

Harris, Richard J.--Winner of AAU Masters' (35 & over) One-Mile Indoor
Championship, February, 1977.

Set personal best of 3:18:04 and placed 5th overall in Cougar Strider
Marathon, Edwardsville, Illinois, June 26, 1977.

THE ANNUAL REPORT OF THE DEPARTMENT OF SOCIOLOGY

July 1, 1977 to June 30, 1978

Pedro R. David, Chair

SUMMER SESSION, 1977.

Chairman Pedro R. David taught criminology, deviance, and juvenile delinquency in his successful six-week Criminology Seminar in Madrid, Spain. The Spanish government allocated \$15,000 for the seminar and also provided free transportation, lodging, and food for the nine students attending from the New Mexico area. Days were spent in class work and evenings were spent visiting various penal institutions in the area. The Spanish government gifted each participating student with 50 volumes of Spanish literature.

Associate Professor Gilbert Merckx was Director of the very effective Summer Program in Guadalajara, Mexico. He taught a contemporary social theory course and an urbanization course with a total of eight students from the United States attending this seminar.

Assistant Professor Paul Sutton was one of three sociologists from a total of twenty behavioral scientists in the nation participating in a six-week institute regarding freedom and causality of human behavior, funded by the National Endowment of the Humanities to the Center for Advanced Study in Behavioral Sciences at Stanford.

On June 10, 1977 the Sociology Department Summer Session had a total of 434 students enrolled.

TENURE

Associate Professor Dodd Bogart and Assistant Professor Arthur St. George were given tenure after review by the Provost at the beginning of the Fall term.

REPLACEMENT

As replacement for Professor Jill McKelvy in Social Welfare, Professor Diana Warner was hired for the academic year, nine-month basis. According to Equal Employment Opportunity Rules, a search was conducted for a professor to fill the social welfare slot on a three-year term. Mr. Richard Coughlin was selected for the position and will join our faculty in the Fall of 1978.

SABBATICAL

Professor Richard F. Tomasson spent the January 14 - April 12 period of his sabbatical in Cuernavaca, Mexico working on his book Iceland: The First New Nation. The completed manuscript will be sent later this summer to the University of Minnesota Press. He also wrote a 15 page piece on the political parties of Iceland for the European volume of the Encyclopedia of the World's Political Parties.

Professor Patrick McNamara, also on Spring 1978 sabbatical, has been working on several articles, three already submitted for publication and three in progress at this time.

VISITING PROFESSOR

In August of 1977 arrangements were completed for Visiting Professor Frank Westie of Indiana University, Bloomington, Indiana to spend Spring, 1978 semester. Professor Westie is one of the renowned scholars in the area of prejudice and attitude research. He taught courses for us on race and ethnic relations and was adviser on our National Institute of Mental Health program on deviance.

CURRICULUM

Subsequent revisions of our undergraduate and graduate offerings were made in the Department during the academic year. As a result of this a new copy of the revised curriculum will be offered in the Fall of 1978 that will respond to the needs of our students. This was accomplished by our faculty analyzing the entire set of undergraduate offerings. Older courses were dropped, many were modified, and new courses added. The undergraduate course offerings were grouped into five "fields of concentration" best representing faculty academic strengths and student interests. These provide for a major in sociology with 18 hours of required core studies in research methods, statistics and theory. In addition the student selects a field of concentration of some 18 additional hours in one of the following: criminal justice, sociology of Latin America, social psychology, social welfare, or general sociology (preparing for graduate work). The revised curriculum is developed around these general concentrations.

At the graduate level, the Department continues to offer the M.A. degree. Over the last ten years, a total of 40 such degrees have been awarded. Of perhaps greater interest is the new Ph.D. program. Approved by the University and the BEF in December 16, 1975, students have entered the program officially for the first time in the Fall of 1977. Currently 18 students are enrolled for post-M.A. work leading to the doctorate. Six areas of Ph.D.-level specialization (plus theory and research methods) represent the major strengths of the faculty in the new graduate curriculum. This new development of advanced graduate work helps build faculty strength and intellectual resources that also upgrade the undergraduate program. We have a total of 28 students enrolled in our graduate program (18 Ph.D. students and 10 M.A. students. Our Graduate Assistantships for the academic

year 1978-79 were awarded to Mary Stinebaugh, Brigitte Goldstein, Sallie Teaf, and Twila Turpen. Students receiving M.A.s this year were Sandra Weber, Carol Higgins, and David Bealmear, with honors.

GRADUATE PROGRAM

The proposal for the establishment of the Ph.D. in Criminology has been funded by the Center for Crime and Delinquency of National Institute of Mental Health, Washington, DC for five years and five students have been admitted into the program. The proposed doctoral training is focused on three related objectives: The first is to make academic training in this disciplinary area more oriented toward addressing the needs of the population of this state and region with respect to problems of crime, delinquency and other forms of deviant behavior. In effect, it represents an attempt to improve the capacity of New Mexico to cope with its increasing problems of deviance by offering doctoral training that will permit its recipients to serve in non-academic roles in the area as well as in more traditional academic roles.

The second objective is to design and implement two unique types of courses. The first type will better equip those who receive training to understand and utilize in research planning the distinctive patterns of social organization and culture that characterize the local minority populations of this region (Chicano, Hispano, and various Native American groups).

The third focus represents an attempt to provide graduate educational opportunity here in New Mexico for individuals in minority categories. Large segments of the New Mexico population are of Spanish cultural origin or are Native Americans. These people are currently considerably under-represented in professional research, teaching, and higher

level administrative roles in all parts of the United States. This is clearly the case in New Mexico. Because no doctoral program in Sociology existed in the state until recently, little opportunity was present for such persons to pursue a Ph.D. in any aspect of this discipline.

During the first year of funding material was prepared to teach two new courses: Sociology of Deviance Among Native American People, and Sociology of Deviance Among Mexican Americans, taught respectively by Professor Melvin L. DeFleur and Pedro R. David. Additional material that can be counted for the teaching will be videotapes of oral histories and bibliographies of various aspects of these cultures.

Of the five assistantships, four of them were given to women members of minorities.

FELLOWSHIPS AND AWARDS

In addition to the five fellowships of the National Institute of Mental Health program, the American Sociological Association has funded two more fellowships in our Department that were awarded to graduate student members of minorities. These fellowships were given as a result of arrangements made by Chairman David and Professor DeFleur at ASA headquarters in Washington, D. C. at the beginning of the Fall 1977 semester.

The Chairman for the Committee for the Christopher A. W. McGee Memorial Award announced that this award was given to two students this year. Rich Rogers of Albuquerque and Rhys Williams of Las Vegas, New Mexico were the recipients of \$260 each.

RESEARCH

A number of the faculty are conducting significant research in which students are involved. Additional proposals are under preparation to obtain research funding. The results of sociological investigation are being published regularly in sociological journals.

Sociology Annual Report

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1977-1978

ENROLLMENT

We subsequently increased our enrollments (2587 as of August 19, 1977) this year... an increase from the previous year of approximately 350 students. Despite increasing enrollments, the Sociology Department was at the bottom of the list of percentages in grading for lower division courses: Percent A+B semester II 76-77 23.2, semester I, 77-78 25.4. Only one other department was lower than ours.

FUTURE PLANS

During the late spring and early summer, meetings were held with Pat Richards, representative from the U. Architects' Office, to discuss remodeling of Building #12 (Old State Lab Bldg.) which, hopefully, would house the Sociology Department in the near future.

Faculty PublicationsBooks, articles and research monographs

- Bogart, Dodd H. "Status Threat and Group Dogmatism"
"Social Power and Liberalism-Conservatism: The Ideological Consequences of Group Position in an Inter-Group Hierarchy."
- David, Pedro R. Estructura Social y Criminología, University of Zulia, Maracaibo, Venezuela, 1978. (Book)
Profile of Violence in Argentina - Report of the U.S. Task Force on Disorders and Terrorism, Washington, 1977, pp. 474-479.
Juvenile Justice in Argentina - Chapter II: Youth Crime and Juvenile Justice, ed., by F. Friday and V. Lorne Stewart, 1977, Praeger Publishers.
- DeFleur, Melvin L. With William V. D'Antonio and Lois DeFleur Nelson, Sociology: Human Society, 2nd edition Diamond printing..
"The Study of Mass Communication; An Overview" Simposio Nacional de Communication, Mexico City, April 1978. (in press)
With Everette Denis, Understanding Mass Communication (Boston: Houghton-Mifflin Co. will be published in 1979).
- Gehlen, Frieda L. "Women Members of Congress: A Distinctive Role?" chapter in Jewel L. Prestage and Marianne Githens (eds.) A Portrait of Marginality: The Political Behavior of the American Woman, New York: David McKay, 1977.
"Toward a Revised Theory of Hysterical Contagion," Journal of Health and Social Behavior, March, 1977.
"Legislative Role Performance of Female Legislators," Sex Roles: A Journal of Research, March, 1977
A summary of the above article appeared in Human Behavior August, 1977.
With Dooren, Stephen, "Karate as a Type of Craze," forthcoming in Leisure Sciences an Inter-disciplinary Journal, (probably in Vol. 2, No. 2).
- Huaco, George A. With L. Thomas Winfree, Ted Bartell, and Robert Anderson, "Citizen Reaction to a Strike by Police," submitted for publication.
"Las Novelas y los Novelistas de la Revolución Mexicana: un Cuadro Sociológico" Revista de Literatura Hispanoamericana (Universidad del Zulia, Maracaibo, Venezuela) 1977.
Article, "The Novelists of the Mexican Revolution" to appear in Humboldt Journal of Social Relations.
Review Symposium on Explorations in General Theory in Social Science, 2 Vols., Essays in Honor of Talcott Parsons--to appear in Sociology and Social Research

McNamara, Patrick H.

"Public Housing in Albuquerque: Report of a Survey", Albuquerque City Planning Department, 1977. 65pp.

With Arthur St. George, "Unmasking the Expert: A Case of Fraudulent Social Science Practice," in Sociological Practice, Vol. 3, #1. Spring 1978.

Analysis of religious values in Quality of Life, survey from the University of Michigan. Submitted for publication. Co-Authorred with Arthur St. George.

Analysis of religious defection and religious change of affiliation. Co-researcher is Arthur St. George. Article currently being written to be submitted in June of this year. (in progress)

Theoretical articles in the sociology of religion. One article already submitted, another in progress.

Merkx, Gilbert W.

"Argentine Social Science and the Role of Cicco," in Latin American Research Review, Forthcoming. (essay).

St. George, Arthur

"A Computer-Integrated Course in Research Methods," forthcoming in Teaching Sociology.

"Unmasking the Expert: A Case of Fraudulent Social Science Practice," with Patrick McNamara, in Sociological Practice, Vol. 3, #1, Spring 1978.

"Computer Applications in the Social Sciences," forthcoming in the Proceedings of the Ninth Annual Conference on Computers in the Undergraduate Curriculum

"Blessed are the Downtrodden? An Empirical Test," with Patrick McNamara submitted to Sociological Analysis

"Mass Media, Political Behavior, and Political Attitudes," with Sandra Weber, submitted to Journal of Communication Research.

Sutton, Paul

With Garafolo, Victim Remedies: Implications of the National Crime Victimization Survey for Legislation to Compensate Victims of Crimes. U.S. Department of Justice, LEAA, NCJISS, (Washington, D.C.: Government Printing Office) 65 pages, 1978

Project Chip: A Study of Juvenile Recidivism (Albuquerque, NM: Second Judicial District) 46 pages, 1978.

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Tomasson, Richard F.

"A Millenium of Misery: The Demography of the Icelanders." Population Studies 31, November pp. 405-428.

"Hell in a Small Place: Extreme Conflict in One Sociology Department--1971-1973," pp. 266-281, in Arthur B. Shostak (ed.), Our Sociological Eye: Personal Essays on Society And Culture. Pt. Washington, NY: Alfred.

Reprinted chapter: "Men, Women, and the Family in Sweden." In Melvin Tumin (ed.), Mankind, Womankind, Humankind. New York: Harcourt, Brace, Jovanavitch. (Adaptation of Chapter 6 of my -- Sweden: Prototype of Modern Society).

(1) Completed editing Volume I of Comparative Studies in Sociology, and wrote critical introduction on the problems of comparative sociology. (2) Began editing Volume II of CSS.

Valdes, Nelson

Completed Dissertation has been provisionally accepted for publication subject to some revisions by The University of Texas Press.

"Cuba in Angola: The Politics of Revolutionary Internationalism" Chapter in book edited by Carmelo Mesa Lago, Cuba: Institutionalization and Change, University of Pittsburgh Press, Fall 1978.

"Cuban Revolutionary Ideology in Retrospect," chapter in book edited by B. Braithwaite, The Caribbean: Ideology and Social Change, University of the West Indies Press, Fall, 1978.

"Análisis generacional: realidad, premisas y método," Areito, Vol III, NO. 4, 1977, pp. 19-26.

Warner, Diana M.

Ordinal Position, Family Size and Assertiveness. With J.R. Hall, Psychological Reports, 1977, 40, 1083-1088.

The Behavioral Effects of Communication on Bystander Intervention. Submitted to Journal of Personality and Social Psychology, 1977.

Determinants of Emergency Intervention: Reconceptualizing the Research in Terms of Emergent Norms. Submitted to Journal for the Theory of Social Behavior (accepted pending revisions), 1976.

Woodhouse, Charles E.

"Political Reaction and Revolutionary Careers: The Jewish Bundists in Defeat, 1907-10" Comparative Studies in Society and History, 1977, Volume 19, No. 3, pp. 367-396 (with Henry J. Tobias)

Completed draft of an article, "Revolutionary Optimism and the Practice of Revolution: The Jewish Bund in 1905" with Henry J. Tobias, to be submitted for publication.

Book Reviews

- Gehlen, Frieda L. Served as a manuscript reviewer for Journal of Politics and for Sociology and Social Research. Also reviewed a book manuscript on the sociology of education for Allyn and Bacon, Inc.
- Huaco, George A. Review of Eliot, Alexander, Myths in Sociology: Review of New Books, Vol. 4, No. 4, May/June 1977, p. 92.
- Review of Berger, Morris, Real and Imagined Worlds: The Novel and Social Science in Sociology: Review of New Books Vol. 4, No. 6, Sept/Oct. 1977, pp. 148-149. Review of The Reversible World, for Sociology: Review of New Books Making revisions in long articles on novelists of the Mexican Revolution, accepted for publication by Humboldt Journal of Social Relations
- Merkx, Gilbert W. "Social Consequences of Modernization in Communist Societies," ed. by Mark G. Field, in Contemporary Society, Forthcoming. (Book Review)
- "Elites and Economic Development," by John Walton, in Hispanic American Historical Review, Forthcoming. (Book Review)
- St. George, Arthur Numerous book and film reviews
- Tomasson, Richard F. Long review: David Popenoe, The Suburban Environment: Sweden and the United States. Scandinavian Studies 49 (Autumn) 479-482.
- Review: Patricia Slade Lander, In the Shadow of the Factory: Social Change in a Finnish Community. Sociology: Reviews of New Books 4 (March/April): 74.
- Reviews: Willy Martinussen, The Distant Democracy: Social Inequality, Political Resources, and Political Resources, and Political Influence. Sociology: Reviews of New Books 4 (September/October): 159.

Papers Read at Professional Meetings

- David, Pedro R. Comparative Criminal Justice Research in Latin America, American Society of Criminology, Atlanta, Georgia, 1977.
- United Nations meeting of Experts in Criminal Justice, Reno, Nevada, 1977
- DeFleur, Melvin L. Organized 130 Luncheon Roundtable Discussions for the American Sociological Association annual convention, 1978
- Symposium paper delivered (and in press): "The Study of Mass Communication; An Overview" Simposio Nacional de Comunicación Mexico City, April 1978. (I was invited by the Mexican Government and U.S. State Department to be a participant)
- Gehlen, Frieda L. "Citizen Reactions to a Strike by Police" presented at the Southwestern Social Science Meetings, Dallas, April, 1977

Papers Read at Professional Meetings cont.

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- Huaco, George A. Attended and was a discussant for a panel on "Active Imagination". Meeting of Inter-Regional Association of Jungian Analysts--Chicago.
"On Active Imagination" paper and discussant, Chicago, 1977 meetings of The Inter-Regional Association of Jungian Analysts.
- Meier, Harold C. Paper read, Annual Meetings of the Southwestern Sociological Association, Dallas, Texas, March 31, 1977. (with Suzanne Vaughan), "Faculty Marginality and Radical Academic Ideology."
- Sutton, Paul "The Cost of Compensating Victims of Crime: Using the National Crime Victimization Survey to Enlighten Social Policy" presentation to National Conference of State Criminal Justice Planners, sponsored by the Department of Justice, San Francisco, January 1977.

"Rehabilitating Criminal Sentences: a Necessary First Step", presentation to Southwestern Criminal Justice Conference, Albuquerque, NM, May 1977.

"Presumptive Sentencing: Determinacy and Beyond" presentation to the New Mexico Correctional Association, Albuquerque, June 1977.
- Tomaeson, Richard F. Discussant, "Traditionalism and Modernity in Scandinavia," Society for the Advancement of Scandinavian Studies Meetings, Amherst, MA, May 4-6.
- Warner, Diana M. Assertiveness of Male Anglo and Mexican-American College Students. (With J.R. Hall) Presented at Southwestern Psychological Association meetings, Fort Worth, Texas, 1977.

Research and Scholarship in Progress

- Bogart, Dodd H. Monograph in preparation, The Threat from Species O: An Introduction to Organizational Ecology

"Intelligence Functions in Systems" (in preparation)

"The Dynamics of Changing Roles" (with Marion Dickens) (in preparation)

"The Role of Organizations in Social Change" (with Charles Woodhouse) (new project initiated)
- David, Pedro R. Council for Crime and Delinquency Grant 1977 (in progress)
NIMH Grant, Associated Researcher.
- DeFleur, Melvin L. Received Doctoral Training Grant from National Institute of Mental Health (five-year grant of \$360,000 first year - \$46,000).

Research and Scholarship in Progress cont.

- Gehlen, Frieda L. A study of UNM faculty members use of and attitudes toward the retirement and insurance program was undertaken. An interim report, 21 pages, was sent to the university administration and the Benefits Committee; a research note on different perceptions of TV characters by males and females is underway.
- McNamara, Patrick H. Research into utilization of social science findings by the legal profession.
- A three-year survey of seniors at St. Pius High School, a study of change in religious values
- Also, analysis of public housing in Albuquerque, work continuing toward publication.
- Merix, Gilbert W. In progress: study of economic policy in Argentina since 1955, book on the sociology of Latin America.
- St. George, Arthur Text Manuscript in progress, Advanced Research Methods in Sociology.
- Research Grant: In preparation - grant proposal to investigate sociological aspects of stress and stress-reduction techniques as applied to police officers--to be submitted to LEAA.
- Sutton, Paul Post-treatment Evaluation of Children in Need of Supervision Project of the Second Judicial District, State of New Mexico. (Funded by the Law Enforcement Assistance Administration, Department of Justice) Completed January, 1978.
- Simulation research involving judicial discretion. This investigation currently funded by the Research Allocations Committee.
- Pretrial Release on Recognizance Program for Bernalillo County Office of Corrections/Detention. Design and evaluation of program which, if successful, will provide the model for state-wide emulation at both the misdemeanor and felony levels.
- Humanities seminar and motion picture documentary/discussion of "The Dilemmas of Incarceration." This project funded by the New Mexico Humanities Council

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Other Professional Activities and Achievements

- David, Pedro R. Honorary Member, Spanish Institute for Youth, Madrid, Spain, 1977.
 Chairman, Latin American Task Force, UNM, 1977-present
 Lecturer, Foreign Relations Committee, 1977-present
 New Mexico Council of Crime and Delinquency, 1977-present
 President, Inter-iberoamerican Society of Social Sciences, 1977-present.
 Member of the Advisory Board of Journal of Criminal Justice Pergamon Press, New York - 1973-1977.
 Relateur, International Conference of Youth Magistrates, Toronto, Canada, July, 1978.
 Meeting of Experts on "Expeditions and Equitable Handling of Criminal Cases," Reno, Nevada, April, 1977.
 Lecturer of the Organization of American States Children's Institute
 Courses for Judges of Juvenile Courts in Nicaragua, 1978.
 Member, United Nations
- DeFleur, Melvin L. Appeared on the program "Television, Violence, and Children" to assess current state of academic research on the topic. Tuesday, April 12, 7:30-8:30 p.m.
 Organized and chaired Plenary Session on "Employment in Sociology," Atlanta, Georgia. March 31, 1977 by request of President of Southern Sociological Society.
 Organized and chaired session of scientific papers on "Mass Communication and Public Opinion," Sacramento, California. April 23, 1977 for Pacific Sociological Association.
 Elected to Freshman Honorary Alpha Sigma Epsilon for excellence of teaching.
Sociology: Human Society, 2nd Edition, Diamond Printing, revision, (Glenview, Scott, Foresman & Co., 1977)
Understanding Mass Communication (Boston: Houghton-Mifflin, in press).
 Radio talk on "Violence and the Media" for KUNM, July 1977.
 Chair, Departmental Curriculum Committee; member Arts and Sciences Tenure Committee.
 Organized 130 Luncheon Roundtable Discussions for the American Sociological Association annual convention 1978.

Other Professional Activities and Achievements cont.

Valdes, Nelson

"Cuba and Angola: the Politics of Principles and Opportunism," paper presented at the Conference on the Role of Cuba in World Affairs, University of Pittsburgh, November 15-17, 1976.

"Women and Sexual Relations in Cuba: Family, Consensual Unions, Divorce and Prostitution Before 1959," paper presented at Boston University's Conference on Women and Change, May 6-7, 1977.

The Cuban Revolution, Economic Organization and Bureaucracy, paper presented at the American Political Science Association's Meeting, Washington D.C., September 3, 1977.

Chairperson of Panel on Cuba and Angola.; LASA and ASA meeting, Houston, Texas, November 5, 1977.

"Cuban foreign affairs in Africa, 1975-1978"; Institute of Cuban Studies, New York, May 27-28, 1978.

Board of Directors, Institute of Cuban Studies, Washington DC.

Editorial board of journal Cuban Studies, University of Pittsburgh.

Editor of section on Caribbean Sociology for the Handbook of Latin American Studies, Hispanic Foundation, Library of Congress.

Was invited by the Cuban Instituto Cubano de Amistad con los Pueblos to visit the country for 21 days: (from December 24, 1977 to January 14, 1978).

Received a Summer Research Stipend from University of New Mexico

Warner, Diana M.

American Sociological Association, 1975-1977; Society for the Study of Social Problems, 1976-1977; Society for Personality and Social Psychology, 1976-1977; Rocky Mountain Psychological Association, 1977-1978.

Woodhouse, Charles E.

Undergraduate advisor, Department of Sociology; member, Graduate Committee and member; Curriculum Committee, Department of Sociology:

Appointed to the Academic Advisory committee for the Bund Archives of the Jewish Labor Movement, New York, NY

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Other Professional Activities and Achievements cont.

- Gehlen, Frieda L. University Senate (Chair of the Faculty Welfare Committee for spring, 1977); elected to Academic Freedom and Tenure Committee; Public Administration Policy Committee; Arts And Sciences Promotion Review Committee;
Active in educational activities of St. Luke's Lutheran Church
- Huaco, George A. Chairman, Graduate Committee, Sociology Department; Graduate Advisor, Sociology Department; Member of Arts and Sciences Graduate Committee.; also on Student Standards Committee.
- McNamara, Patrick H. Vice-President, Association for the Sociology of Religion, 1976-1977 Book Review Editor, SOCIOLOGICAL ANALYSIS, 1976-1979.
Consultant to Albuquerque City Planning Department: design and execution of survey of low-income public housing residents Spring and Summer, 1977.
Consultant to Albuquerque City Planning Department: design and execution of research on housing needs of the handicapped in the metropolitan area. Resulted in publication (cf. under Research Monographs).
- Meier, Harold C. Forum presentation, Colloquium on The Transition To Socialism, The University of New Mexico, April 13, 1977. Topic: "Monopoly Capitalism and the Structure of the Working Class."
Admissions And Registration Committee
- Merkx, Gilbert W. Commentator, panel on Modernization in Latin America, Rocky Mountain Council on Latin America Conference, April 7, 1977. Attended, Latin American Studies Association Conference, Houston, Nov. 2-5, 1977; Elected to Executive Council, Rocky Mountain Council on Latin American Studies.
Consultant to Harper and Row, Prentice Hall, Allyn and Bacon, and Scott Foresman; Consultant to Shell Oil Company and Gulf Oil Company on political violence study; Journal referees: The American Sociologist. Panelist: New Mexico Humanities Council on Panama Canal Treaties program.
Vice-President, Faculty Senate, Spring term, 1977; President Faculty Senate, Fall term, 1977; Member, Department of Sociology, Curriculum Committee.
Participant and consultant on New Mexico Humanities Council project on illegal aliens.
- St. George, Arthur Los Compañeros Teaching Excellence Award.

Other Professional Activities and Achievements cont.

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Sutton, Paul

"Presumptive Sentencing; Determinacy and Beyond" position paper delivered to the New Mexico Correctional Association meeting, Albuquerque, June 10, 1977.

"Rehabilitating Criminal Sentences: a Necessary First Step" paper presented to Southwestern Criminal Justice Conference held at UNM, May 2-4, 1977.

consultant for U.S. Magistrate court in Albuquerque regarding design and feasibility of project to identify offense and offender related predictions of bail flight.

consultant with the Governor's Council on Criminal Justice Planning regarding validity of state department of corrections' assessment of fiscal impact of Senate Bill 18

Elected to membership in the New Mexico Council on Crime and Delinquency.

served as chairperson, community corrections subcommittee on ROR, diversion, and citation systems, NMCCD.

served on departmental curriculum committee which was charged with the comprehensive evaluation and revision of departmental offerings at both the undergraduate and graduate levels.

Tomasson, Richard F.

Elected national president of the Society for the Advancement of Scandinavian Study for 1977-79. Member, Committee on World Sociology, American Sociological Association Panelist, National Endowment for the Humanities; Editor, Comparative Studies in Sociology; Associate Editor, Journal of Military and Political Sociology.

Participant: "The Scandinavian Presence in North America." Minneapolis, October 7-8; Lecture: "Social Welfare in Sweden: A Comparative View", University of Colorado, Boulder, November 11; Participant: Swedish Studies Conference, San Francisco, November 19-20.

Member, A & S Programs Committee Prepared position paper on the social welfare concentration for Sociology Department.

Member of New Mexico Humanities Council Committee to do a TV program on "The Welfare Mess."

Session Chairman, "Social Scandinavia: Comparative Perspectives." Society for the Advancement of Scandinavian Studies Meetings, Seattle, May 5-7.

Informal Discussion Leader, "The Problems of Comparative Sociology." American Sociological Association Meetings, Chicago, September 5-9.

The Annual Report of the Department of Speech Communication

July 1, 1977 - June 30, 1978

R. Wayne Pace - Chairman

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Annual Report.

I. General Departmental Information and Accomplishments

A. Status of the Department

This represents a report of the sixth year in which the Department of Speech Communication has existed in its present form. The Department has four content areas that carry out its instructional and research objectives.

Areas

1. Interpersonal Communication Area -- Three faculty have full time assignments in this area (Civikly, Plax, Rosenfeld) and three others teach occasional courses in interpersonal communication (DeStephen, Feingold, Pace). The curriculum is strong and student enrollments are some of the heaviest in the department. Most courses in the area over-enroll, with Nonverbal Communication reporting initial requests exceeding 400%, Persuasive Communication nearing 300%, and Small Group Communication at approximately 200% enrollment capacity.

2. Organizational Communication Area -- Three faculty have part-time assignments in this area (Feingold, Pace and Zannes). The curriculum is one of the very best in the country, including courses from lower-division through the graduate level. New Mexico is one of five universities cited by the International Communication Association as offering a course in organizational communication auditing that is acceptable for meeting the knowledge criterion for audit credentialing. Course enrollments are strong, but the lack of faculty in the area has made it extremely

difficult to offer the curriculum and respond to student needs.

The Institute for Organizational Communication is actively sponsoring programs in the profession and community.

3. Rhetorical Communication Area -- One faculty member has a full time assignment in this area (Jensen) and two faculty members have part time assignments (DeStephen and Zannes). Although the curriculum is undergoing analysis at this time, the program is substantial and has strong enrollments in Argumentation, Public Speaking, and Southwest Rhetoric. Under the guidance of R. Jensen, both undergraduate and graduate students have been engaged in research in Southwest Rhetoric and presented papers at meetings of the Western Speech Communication Association in the Fall of 1977. Southwest Rhetoric is a natural focus for the Department and promises to make significant contributions to an understanding of the State and region. An Institute for Southwest Rhetoric should be created soon.

4. Telemediated Communication Area -- Two faculty have full time assignments in this area (Corcoran, who is replacing Gerace while he is on leave to Bolivia as part of a development project, and Schrag) and one has a part time assignment (Zannes). The curriculum is undergoing some analysis at this time and some recommendations for modifications may develop in the fall. Nevertheless, the concept of telemediated communication is sound and finds widespread application not only in broadcasting but also in business, government and industry. Much of Fall semester was devoted to writing a position paper on "telecommunication studies at the University of New Mexico" in response to deliberations by

the ad hoc committee on Radio-Television-Film. The report summarizes the philosophy, curriculum, building needs, and includes copies of course syllabi, intern contacts, and advising sequences. A copy of the report is attached for the record.

Other Activities and Issues

5. University Forensics -- The Department sponsors a program of competitive debate and other speaking activities. Participation is open to all students on campus and represents an opportunity for them to engage in stimulating, intellectual competition. Forensics attracts top-quality students to the campus and provides intellectual challenge for articulate scholars. The report of Dr. DeStephen, Director of Forensics, is attached.

6. Communication Week -- The week of February 19-25, 1978, was proclaimed by William E. Davis, President of the University, David Pusk, Mayor of the City of Albuquerque, and Jerry Apodaca, Governor of the State of New Mexico, as Communication Week. A Proclamation was issued by each dignitary (see attachments) and the proclamations were framed and hung in the departmental area. In cooperation with the New Mexico Public Relations Society, Dr. Darrell Piersol, International Business Machines (IBM) executive in-residence at Pan American University, Edinburg, Texas, who has an earned doctorate in communication from Purdue University, and who has been President of the International Communication Association, was brought to campus to visit classes and speak at the annual Communication Luncheon of PRSA.

7. Research Appointments -- At one time or another throughout the academic year, faculty members have been on released time to

participate in funded projects. Dr. Estelle Zannes has been on a grant from the City of Albuquerque to assist in the creation of a Public Information Office and to supervise the development of a city information program. Dr. Lawrence Rosenfeld has been on a grant studying labeling theory and attitude change.

8. Grading Standards -- One year ago, the department was severely penalized for having high grading standards (awarding more A's and B's than C's, D's and F's) through the loss of a full faculty position. As faculty of the department had predicted, the overall ranking of the department in terms of departmental grade point average awarded moved from 19th (high grades) to 4th (low grades). Only three departments in the College awarded fewer A's and B's to students than did Speech Communication.

9. Television Laboratory -- Through an allocation of approximately \$22,000 for video equipment, the department was able to replace much of its old and antiquated studio equipment. With the acquisition of some additional video equipment and remodeling of the studio area, the television laboratory should be in condition to provide services for students in a considerably improved manner over the past six years.

10. Student Enrollments -- During the past academic year, the department has enrolled approximately 1400 students each semester or 2800 students for the year. Of that number, the following have been majors in the Department:

Graduate Students	32
Undergraduate Students (Total) . .	80
College Arts & Sciences	58
University College	17
College of Education	1
School of Bus. & Adm. Sci.	4

11. Faculty Committee Assignments -- Throughout the year, departmental faculty have served on department, college, and university committees. Department committees appointed at the fall planning conference were as follows:

Undergraduate Committee: Richard Jensen (Chair),
Jean Civikly, and Dan DeStephen.

Graduate Committee: Timothy Plax (Chair),
Robert Schrag, and Estelle Zannes.

Placement Committee: Paul Feingold (Chair),
Farrel Corcoran, and Lawrence Rosenfeld.

In the College of Arts and Sciences, Estelle Zannes served on the Tenure and Promotion Committee, Timothy Plax served on the Graduate Committee and the Committee on Use of Human Subjects. Three faculty members served on University committees: R. Wayne Pace was Chair of the standing committee on Continuing Education; Robert Schrag served as a member of the Student Radio Board; and Dan DeStephen served on the committee on Scholarships, Prizes and Loans.

12. Activity in Professional Associations -- During the past year, several faculty members have been particularly involved in professional associations. R. Wayne Pace has served as First Vice President and chair of the Convention Committee and is currently President of the Western Speech Communication Association. Jean Civikly is currently Vice Chair of the Speech Communication Education Interest Group of the Western Speech Communication Association. Timothy Plax has served as Vice Chair and is currently Chair of the Behavioral Sciences Interest Group of the WSCA. Lawrence Rosenfeld was selected as Editor-elect of the Western Journal of Speech Communication, to become editor in

February of 1979. Jean Civikly completed a three-year term as a member of the Board of Directors of the International Communication Association. Jean Civikly has also served as President of the New Mexico Communication Association, with Estelle Zannes as Vice President; Zannes is currently President of the NMCA.

13. An Appreciation -- May Polivka, Departmental Secretary, deserves special recognition for her contribution to the department for the past several years. Throughout the past six years, she has been a steady influence on departmental relations and affairs. She has exercised calm judgment and dedicated service through turbulent times. The department owes a singular debt to her guidance and gentle management style.

B. Faculty, Staff, and Assistants

1. Faculty

R. Wayne Pace, Professor and Chairman	Ph.D. Purdue
Organizational and Interpersonal Communication	
Estelle Zannes, Associate Professor	Ph.D. Case-Western
Rhetorical and Telemediated Communication	Reserve
Lawrence B. Rosenfeld, Associate Professor	Ph.D. Pennsylvania
Interpersonal Communication	State
Jean M. Civikly, Associate Professor	Ph.D. Florida State
Interpersonal Communication and Educational Methods	
Timothy G. Plax, Associate Professor	Ph.D. Southern
Interpersonal Communication and Research	California
Methods	
Paul C. Feingold, Assistant Professor	Ph.D. Purdue
Organizational and Interpersonal Communication	
Richard J. Jensen, Assistant Professor	Ph.D. Indiana
Rhetorical Communication	
Frank A. Gerace, Assistant Professor	Ph.D. Texas
Telemediated Communication (on leave - Bolivia)	
Dan E. DeStephen, Assistant Professor	Ph.D. Utah
Rhetorical Communication and Forensics	
Robert L. Schrag, Assistant Professor	Ph.D. Wayne State
Telemediated Communication	
Farrell Corcoran, Visiting Lecturer	Ph.D. pending
Telemediated Communication	Oregon

2. Part-time Faculty

Barbara Barsky, Lecturer II, Semester II	M.A.
Interpersonal Communication	Hunter College
RoLayne DeStephen, Lecturer II, Semester II,	Ph.D. pending
Public Speaking and Interpersonal	Univ. of Utah
Communication.	

3. Staff

May Polivka, Department Secretary

Cathy B. Retzlaff, Staff Secretary - July to December, 1977

Sharlán D. Thomas, Staff Secretary - December, 1977 to July, 1978

Richard Steinberg, Studio Technician - July to Sept. 10, 1977

4. Graduate Assistants

Martha Day	265 and 130 Assistant
Glenn Gabbard	101 Assistant; 221 Assistant, Semester I
Dayle Hardy	Forensics Assistant
William Sayer	102 and 130 Assistant

Teaching Assistants

Farrell Udell	240 and 221	
Gene D. Fowler	101	(Semester II)

Additionally, graduate students Libby Jacobus and Richard Quezada assisted with 130, Public Speaking and Kathy Lyn Pitts assisted with 444, Interviewing.

5. Work-Study Students

Debbie Herrera	Forensics Secretary
Melvin Mays	Telecom. Assistant (Semester I)

6. Faculty Appointments, Effective August, 1977

Farrel Corcoran Visiting Lecturer, Telecommunication,
re-appointed as Visiting Assistant Professor effective August, 1978.

7. Faculty Separations, Effective June 30, 1978

R. Wayne Pace, Professor and Chairman	Resigned to accept position as Professor of Communication at Brigham Young University.
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C. Faculty Accomplishments: January 1 - December 31, 1977

1. Advanced Study

Farrel Corcoran. Progress toward Ph.D., University of Oregon. Dissertation title: "An Approach to a Grammar for the Screen Media."

Daniel E. DeStephen. Ph.D., University of Utah, Salt Lake City, Utah, June 1977. Dissertation title: "Tactics in Conflict: A Study of Tactic Usage in the Controversy Over the Impeachment of President Richard M. Nixon."

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

Daniel E. DeStephen. Guest Lecturer, Boise State Summer Debate Institute, August 1977.

Frank A. Gerace. On leave from Department of Speech Communication to LAPE (Latin American Projects in Education) of College of Education. Assigned as expert in Nonformal Education and Rural Radio to Proyecto de Desarrollo Educativo Rural I of the Government of Bolivia, South America.

R. Wayne Pace. Following the annual conference of the International Communication Association in Berlin, Germany, visited faculty in universities and research institutes in Denmark, Sweden, Norway, and Wales about research on seriality in human communication systems; gave seminars on communication theory and interpersonal communication at University of Wales, Cardiff. Travel and meetings occurred from May 22-June 20, 1977.

Lawrence B. Rosenfeld. Sabbatical leave, Semester I, 1977-78.

Robert L. Schrag. May-June 1977. Completed video training tapes for programmed learning project for Introduction to TV Production: University of Wisconsin, Stevens Point.

Estelle Zannes. Travel: United Kingdom, study of training methods for police. Taught several classes at police college.

3. New scholastic honors, fellowships, etc.

a. Jean M. Civikly. Promotion to Associate Professor rank with tenure.

b. Timothy G. Plax. Promotion to Associate Professor rank with tenure. Den's Award for work on College of Education Graduate Committee, 1976-77.

4. Publications

Jean M. Civikly

Messages: A Reader in Human Communication, 2nd edition, New York: Random House, 1977, pp. 354.

"Interviewer and Client Behaviors in Supportive and Defensive Interviews," Communication Yearbook I. New Brunswick, N.J.: Transaction Inc., 1977, pp. 347-361.

Nonverbal Communication in the Urban Environment, in Wm. Arnold and Buley (Eds), Urban Communicology: Surviving in the City. Boston: Winthrop, 1977, pp. 317-3361.

Nonverbal Communication in Cities, In J.M. Civikly (Ed), Messages: A Reader in Human Communication, 2nd ed., N.Y.: Random House, 1977, pp. 123-137.

Daniel DeStephen

"Carrying on the Debate and Building Cases," D. Ehninger & W. Brockriede (Eds) Decision by Debate. Harper & Row, 1978. Co-author: Karen Rasmussen.

Paul C. Feingold

"Anti-Drug Commercials and Mass Media: Pushing or Preventing?" Journal of Communication, Winter, 1977.

Frank A. Gerace

"La participacich popular y el flujo de información en organizaciones de Educación Extraescolar." Revista del Centro de Estudios Educativos (México) 1977, Vol. 7, No. 3, pp. 97-101.

Richard J. Jensen

"Labor's Appeal to the Past: The 1972 Election in the United Mine Workers," Central States Speech Journal (in press).

Review: Contemporary Native American Address by John R. Maestas in Quarterly Journal of Speech (in press).

"A Guide to Speaking Skills," in The World Book Student Handbook (in press). Co-author: Timothy G. Plax.

R. Wayne Pace

Communication Probes, second edition. Palo Alto, Calif.: Science Research Associates, 1977, pp. 240. Co-authors: B.D. Peterson and G.M. Goldhaber.

Instructional Supplement with a Handbook of Communication Exercises, to accompany Communication Probes, second edition. Palo Alto, Calif.: Science Research Associates, 1977, pp.131.

"Communication Behavior in Defensive and Supportive Interviews," Communication Yearbook I (New Brunswick: Transaction Books, 1977), pp. 347-361, B.D. Reuben (ed).

Timothy G. Plax

Antecedents of Change in Attitudes of Males and Females, "Psychological Reports, 1977, Vol. 41, pp. 811-821. Co-author: Lawrence B. Rosenfeld.

Timothy G. Plax (cont'd)

"Anxiety Arousing Messages and Ego Involvement as Determinants of Communicative Predispositions," Human Communication Research, 1977, Vol. 3, No. 4. Co-authors: Edward Bodaken and Kenneth Sereno.

"Clothing as Communication," Journal of Communication, 1977, 27, pp. 24-31. Co-author: Lawrence B. Rosenfeld.

"A General Systems Theory Approach for Communication Research," NewMexiCom, 1977, Vol. 3, No. 2, pp. 37-43.

Lawrence B. Rosenfeld

"Setting the Stage for Learning," Theory Into Practice, 1977, Vol. 16, pp. 167-173.

"Antecedents of Change in Attitudes of Males and Females," Psychological Reports, 1977, Vol. 41, pp. 811-821. Co-author: Timothy G. Plax.

"Self-Disclosing Communication and Student Mental Health: A Case for Both," NewMexiCom, 1977, 3, pp. 74-84.

"The Group and the Individual," in Messages, 2nd ed. J. Civikly, ed. New York: Random House, 1977, pp. 231-239.

"Clothing as Communication," Journal of Communication, 1977, 27, pp. 24-31. Co-author: Timothy G. Plax.

"Self-Disclosure Avoidance: Why I Am Afraid to Tell You Who I am," Communication Monographs. In press.

Robert L. Schrag

Review of Murphy, Robert D., Mass Communication and Human Interaction, in Communication Education. In press.

Estelle Zannes

Stand Up, Speak Out. Addison-Wesley Publishing Co., 1977, pp. 247. Co-author: Gerald M. Goldhaber.

Police Communication: Human and Hardware. Davis Pub., April 1977, pp. 400.

"Police Communication: Human and Hardware," Carnahan Conference, April 1977.

"Crime Stoppers," Police Chief Magazine, June, 1977.

5. Other research projects or creative work

Jean M. Civikly

Development of on-campus Intern Training Program, Department of Speech Communication.

Paul C. Feingold

"Communication Barriers and Union Organizations in Hospital Nursing Services"

"Students vs. Security Officers: Two Views of the Role of the School Security Officer."

Frank A. Gerace

Patterns of Media Use, Organizational Membership, Individual Modernity, and Competence among Campesinos of the Cochabamba Valley.

Richard J. Jensen

Completed research on "Southwest Rhetoric," Faculty Resource Allocations Committee Grant.

R. Wayne Pace

Manuscript on techniques of communication completed.

Proposal for research on diffusion of information in voluntary organizations prepared and submitted to Commission of Education, LDS Church.

Proposal for ad hoc grant to meet with researchers in Eastern European countries interested in seriality in human communication systems prepared and submitted to International Research and Exchanges Board.

Preliminary proposal for an international seminar on seriality in human communication systems prepared and submitted for tentative support by Brigham Young University, Sandia Laboratories and University of New Mexico. Administration support of \$1,000 designated for the project.

"Reliability of the OA Communication Climate Inventory," a report on research using an organizational communication climate inventory developed by R.W. Pace and B.D. Peterson.

"Communication Climate and Organizational Satisfaction," a report on the development of corporate communication policies and two new instruments for measuring climate and organizational satisfaction.

Lawrence B. Rosenfeld

Member of a six-person research team to receive a \$281,000 NSF grant.

"Legal Representation at Administrative Fair Hearings: The 'Lawyer Effect'" submitted to Law and Human Behavior.

Robert L. Schrag

Ongoing project "Sports and Human Interaction" supported by a grant-in-aid of \$840 from the University Research Allocations Committee.

"Harry Chapin Meets Kenneth Burke: Rhetorical Criticism for the Mass Communication Student." Submitted to Communication Education.

"TV and Film: Reflections on Reality." Submitted to Western Journal of Speech Communication.

Estelle Zannes

Received Research Allocations Grant: Study Police Communications, Summer Research (United Kingdom).

6. Activities in Learned and Professional Societies

Jean M. Civikly

Attended International Communication Association, May 1977, Berlin, West Germany: Board of Directors (Member at Large), Chair of Committee on Annual Conferences; Presented paper for Top Three panel in Organizational Communication Division, "Interviewer and Client Behaviors in Supportive and Defensive Interviews."

Jean M. Civikly (cont'd)

Speech Communication Association, Membership Committee
(and campaign), 1977.

Western Speech Communication Association, November 1977,
Phoenix:

Committee for Revision of the WSCA Constitution
Chair of "Implications of Back to Basics Movement for
Speech Communication," Speech Communication Education Interest
Group.

Secretary, Speech Communication Education Interest Group.
Elected to Vice-Presidency.

Secretary, Organizational-Interpersonal Interest Group.

Panel Member: Teaching Nonverbal Communication in the
Community College

Paper presentation: "The Role of the Senior Citizen-
Colleague in Speech Communication from the Perspective of the
Junior Colleague."

Coordinator, Women's Citation Index.

New Mexico Communication Association:

Attended meeting November 1977, Roswell, New Mexico.

President.

Farrel Corcoran

Presented paper, "Processing Information from the Screen
Media: A Linguistic Paradigm," at SCA Convention, Washington,
D.C., December 1977.

Daniel E. DeStephen

Presented papers at Western Speech Communication Association
convention, November 1977, Phoenix:

"Counterplans: A Defense of the Traditional Perspective"

"Critiques of Empirical Research in Forensics"

"Tactics in Negotiations: A Preliminary Classification
System"

Presented paper at SCA convention, Washington, D.C.,
December 1977, "Progress in Topic Selection for Collegiate
Debate and Discussion."

Paul C. Feingold

President, Albuquerque Chapter, American Society for
Training and Development.

Attended New Mexico Communication Association meeting,
Roswell, New Mexico, November 1977; presented paper.

Attended Western Speech Communication Association conven-
tion, Phoenix, November 1977.

Richard J. Jensen

Attended New Mexico Communication Association meeting in
Roswell, November 1977.

Presented paper, "The Chicano as Politico: Rudolfo 'Corky'
Gonzales and Jose Angel Gutierrez," at Western Speech Commu-
nication convention, Phoenix, Arizona, November 1977.

Critic: International and Intercultural Communication
Annual (published by Speech Communication Association).

R. Wayne Pace

First Vice-President (President-elect), Western Speech Communication Association.

"Interviewer and Client Behaviors in Supportive and Defensive Interviews," a paper presented at the International Communication Association, Berlin, Germany, June 1977.

"Seriality in Human Communication Systems," a paper presented at the International Communication Association, Berlin, June 1977.

Director, Commission on Organizational Communication Curricula, Division IV, International Communication Association.

Chairman, Committee on certification of speech communication teachers, New Mexico Communication Association.

Member, Committee on Ethics, International Communication Association.

Representative, States Advisory Council, Speech Communication.

Attended meetings of professional associations:

New Mexico Communication Association, Roswell, N.M., November 9-10, 1977.

International Communication Association, Berlin, Germany, May 29-June 6, 1977.

Speech Communication Association, Washington, D.C., December 1-4, 1977.

Western Speech Communication Association, Phoenix, Arizona, November 19-23, 1977.

Evaluator, Speech and Drama, National Council for Accreditation of Teacher Education (NCATE).

Chairperson, program on "Rhetoric/Communication of the Southwest," Western Speech Communication Association, Phoenix, Arizona, November 1977.

Timothy G. Plax

Vice Chairman, Behavioral Sciences Interest Group, Western Speech Communication Association Convention, Phoenix, Arizona, November 1977.

Speaker, Basic Course Conference, Western Speech Communication Assoc. Convention, Phoenix, Arizona, November 1977.

Attended November 1977 meeting of New Mexico Communication Association, Roswell, New Mexico.

Lawrence B. Rosenfeld

Member, Dissertation Awards Committee, Speech Communication Association, 1977.

Critic, BSIG Program, Western Speech Communication Association convention, 1977.

Referee for papers submitted to Quarterly Journal of Speech.

Associate Editor, Communication Education.

Robert L. Schrag

Attended the New Mexico Communication Association meeting, Roswell, New Mexico, November 1977; presented paper, "Rhetorical Criticism for the Mass Communication Student."

Attended Western Speech Communication Association convention, Phoenix, Arizona, November 1977.

Estelle Zannes

Vice-President, New Mexico Communication Association.
 Attended meeting of New Mexico Communication Association, Roswell, New Mexico, November 1977.

"Police Communication: Human and Hardware," presented at Carnahan Conference, Lexington, Kentucky, April 1977.

7. Other Professional Activities

Daniel E. DeStephen

Moderator. AREA and CANT Debate over Nuclear Energy in New Mexico, December 1977.

Guest Judge, 1977 National Debate Tournament, April 1977.

Guest Judge, 1977 District Nine Qualifier, March 1977.

Director: 1977 New Mexico High School State Speech Contest, March, 1977.

Director: University of New Mexico Summer Debate Institute, June 1977.

Paul C. Feingold

Consulted for 15 different public and private organizations.
 Credentialed Communication Auditor, International Communication Association.

Frank A. Gerace

Manuscript Revision of New Edition of The Technique of Television Production by Millerson, Hastings House, Communication Arts Edition.

Richard J. Jensen

March 24, 1977: Judged Optimist Club Oratorical Contest
 March 25 and 26: Helped run State High School Debate Tournament.

August 23: Moderator of first debate between Albuquerque mayoral candidates.

December 6 and 13: Taught workshop on public speaking at Lovelace-Bataan Hospital.

R. Wayne Pace

External Reviewer, Graduate Program, Department of Communication, Brigham Young University, April 1977.

Consultant on interpersonal communication, Animal and Plant Health Inspection Service, Department of Agriculture, Washington, D.C.

Consultant on presentations, Sandia Laboratories, Albuquerque, N.M.

Consultant on organizational development and communication, Lincoln National Forest, Alamogordo, N.M.

Consultant on interpersonal communication, Associated General Contractors, Albuquerque, N.M.

Seminar Leader, Basic Concepts of Semantic Behavior, South Area Midsschool Principals and Counselors, October 1977.

Seminar Leader, Communication Theory, University of Wales, Cardiff, Wales, June 1977.

Lawrence B. Rosenfeld.

Lecturer on Self-Disclosure, Ohio State University,
January 12-14, 1977;

In-service workshops/speeches for APS Guidance Counselors,
Lovelace-Bataan personnel, First Unitarian Church of
Albuquerque, during 1977.

Robert L. Schrag

Talk, "Television and the Jewish Community, to study
group from Temple Albert.

Estelle Zannes

Consultancy, 1977 Mayoral Race, for David Rusk.

Hostess for television Governor's Report with Governor
Apodaca.

Technical supervision of Navajo Time Cycle, television
film aired on KOAT-TV, Albuquerque.

8. Non-teaching University Service

Jean M. Civikly

Library Liaison, Department of Speech Communication
Committee on Undergraduate Student Issues
Promotion Committee, College of Arts & Sciences, 1977-78.

Dan DeStephen

Faculty Advisor, New Mexico Forensic Council

Committee member: Scholarship, Prizes, Loans and High

School Relations Committee, UNM.

Director of Forensics, University of New Mexico

Faculty Advisor, UNM Chapter of Delta Sigma Rho-Tau Kappa

Alpha.

Paul C. Feingold

Member, University Committee for Development of an Inter-
disciplinary Program in Energy Development.

Member, Speech Communication Department Advisory Committee

Director, Institute for Organizational Communication.

Faculty advisor to eight graduate students.

Directed one master's thesis; currently serving on eight
doctoral committees and directing one master's thesis.

Richard J. Jensen

Chairman, Departmental Undergraduate Committee

Key Person, Speech Communication Dept., University
Combined Fund Campaign.

R. Wayne Pace

Chairman, Committee on Continuing Education, UNM

Chairman, Department of Speech Communication, UNM

Advisor, Speech Com. Grad. Student Assn.

Departmental Undergraduate Advisor

Timothy G. Plax

Member, College of Education Graduate Committee, 1976-78
 Member, College of Arts & Sciences Graduate Committee,
 1977-78.
 Member, Arts & Sciences Human Subjects Committee, 1977-78.
 Member, University Human Subjects Committee, 1977-78.
 Chairperson, Graduate Committee, Department of Speech
 Communication, 1977-78.

Lawrence B. Rosenfeld

Faculty advisor to graduate and undergraduate students.

Robert L. Schrag

Member of the Speech Communication Department Graduate
 Committee.
 Member of the Board of Directors for KUNM-FM.

Estelle Zannes

Advisor for graduate students

9. Public Service

Paul C. Feingold

Public service through speeches or professional services
 to over ten public and private organizations.

Richard J. Jensen

Lector - Newman Center, University of New Mexico

R. Wayne Pace

High Councillor, Albuquerque, New Mexico Stake, LDS Church
 Board of Directors, Albuquerque Kiwanis Club

Timothy G. Plax

Lecture to University of New Mexico Student Senate, Fall
 1977.

10. Personal Information

Timothy G. Plax

Married Marlis Mann.

Lawrence B. Rosenfeld

Daughter, Kara Alison, born April 3, 1977.

II. Recommendations and Plans for the Future

A. Recommendations

1. Provide the department with adequate instructional and research facilities. Specifically, remodel the television laboratory area and increase departmental space for conference rooms, research labs, and faculty/student meeting areas.
2. Supply the department with an annual equipment budget to purchase and replace both portable video equipment and studio video equipment.
3. Return to the department the three FTE faculty positions which were lost during the past five years and increase the number of graduate assistants to eight.
4. Add three new FTE faculty over the next three years so that a total of 16 FTE faculty can be expected by the year 1980, which was planned as early as 1972.

B. Plans for the Future

With the resignation of the Chairman of the past six years, the Department plans to make a complete review of its status and programs. Out of that review will come specific recommendations and actions. Goals will be established to make the department a viable contributor to the university community.

APPENDIX A
TELECOMMUNICATION STUDIES

TELECOMMUNICATION STUDIES AT THE
UNIVERSITY OF NEW MEXICO

A Statement by the Department of Speech Communication

October, 1977

Telecommunication Studies at the
University of New Mexico

A Statement by the Department of Speech Communication

Introduction

Telecommunication is the process of communicating over a distance by means of electromagnetic instruments designed for that purpose (Blake and Haroldson). Others might argue that television or some other channel of communication is defined by that which is carried on the channel. That is, if a dramatic production can be carried on television, television is therefore basically a theatrical art; if news can be recorded on video, video is basically a news art; if baseball can be carried on television, then television is basically a recreational art. The conclusion from any of these analyses would be that if the medium is recreational, for example, it should be studied in the Department of Health, Recreation and Physical Education; if the medium is basically dramatistic, it should be studied in Theatre Arts, etc. The flaw in this type of analysis lies in the failure to recognize the difference between the channel or medium and the event being carried or recorded. General Semanticists have characterized this flaw as a failure to realize that the word is not the thing, that the symbol is not the event, that the medium is not the message (in spite of what McLuhan says). Certainly, the medium or channel has an influence on the message. The form in which any given message is to be portrayed influences its design. Nevertheless, it is that very influence that makes the entire phenomenon fundamentally communicative and most clearly understood as a channel

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which exerts different influences on events to be carried over the channel.

One such influence may result from a recent technological innovation referred to as "broadband communication" which has the potential of far exceeding present methods of distribution and may revolutionize the concept of mass telecommunication (Anderson). Bagdikian suggests the extent of the impact when he observes that "where we now have a maximum of seven VHF television channels in our largest cities, in the future we may have any number of multiples of 20 to 24,000 TV channels in each community." (Glessing and White) One of the more provocative and insightful comments on the uses of video and television in the future is that of Goldmark. He describes present and future cable-television systems that "take over the task of distributing information in bulk from central facilities to offices and homes. It would, in effect, be an alternative way of receiving the information that now comes through books, records, broadcasting and so on." Goldmark also describes a network of cable-television that would "interconnect the major public institutions of the city, such as the health, educational or emergency services." Another network would serve as the city's "sensory nerves." It would "provide information to appropriate centers on such matters as weather, pollution, traffic, the location of emergency vehicles and the status of public transportation."

Although some may argue that television (a telecommunication vehicle) is used primarily to distribute entertainment to the masses, the dominant view of the field today is that telecommunication and television represents media of communication whose greatest adventures are in the area of information dissemination. Mr. Alvan Barshop, Assistant General Manager of Sales for the Panasonic Corporation of America, states: "We see video moving dramatically away from traditional entertaining

programming into more 'information' oriented areas--and our sales reflect this shift." Writing about "small-studio" video tape production, Quick and Wolff observe:

There has been tremendous publicity and active marketing effort behind the sales of video tape and video cassette equipment. . . .

Within a matter of a few years, probably less than a decade, many communications now being written will be transmitted by media that do not involve writing. Television may well dominate as the information system--in industry, in government, and in education. Its impact on marketing alone will be fantastic, since it will enable one to get a sales message into hundreds of selected offices and homes at extremely low cost. . . .

After all, the primary purpose of the small-studio production is to communicate information, not to present entertainment. But information can be presented in an interesting, and often entertaining manner.

Without belaboring this point, we can simply state that television and video are universally regarded as media of communication and information. The literature is so extensive and the data so rich that to review it here would only belabor the obvious. The issues are treated in great detail in The Handbook of Communication, Broadcasting in America, Mass Media: The Invisible Environment, The Handbook of Social Psychology, and several five-foot shelves of books on telecommunication.

Philosophy

The basic question to be addressed by this committee concerns the development of curricula in telecommunication. The major philosophical issue underlying such a question with regard to telecommunication

curricula centers on the question of what is the primary function of education in telecommunication. In other words, given the limited resources available at the university, what should be the focus of a program in telecommunication? Two needs tend to surface and should be reviewed in order to formulate a coherent attitude toward any proposed curriculum in this area: the training of performers versus the education of consumers. Occasionally the distinctions are obscured by proponents of professional training who argue that performers in the "real world" need so-called specific, vocational training rather than a vague, misty liberal arts education. The real distinction, however, is between those who wish for a curriculum that is performer-oriented versus a curriculum that is consumer-oriented.

The performer-oriented curriculum is directed primarily towards the status quo of broadcast production: how to present oneself artistically in front of a camera, how to sell time, how to construct saleable schedules, how to act in a drama, how to carry out market research. In the performer-oriented curriculum, when we teach a course in the economics of broadcasting, for example, a student might be taught how to run a station for profit. In the consumer-oriented curriculum, the focus would be on revealing the financial structure of the broadcasting industry, what financial interests are at stake, and how those interests influence programming philosophy. In a performer-oriented curriculum, when writing-for-telecommunication-media is taught, students are systematically taken through the idioms of the stylized forms and the routines of the status quo. In a consumer-oriented curriculum, students examine basic concepts and look for innovative possibilities that may not even exist in current broadcast practice. Thus, when we talk about research, should we talk about the sales-related demographics of a

station's coverage or talk about ways of assessing the impact of telecommunication on the structure of society? Should we be exploring the analysis and criticism of broadcasting with aesthetic, psychological, and ethical bases or should we be training future station managers in the techniques of evaluating the ratings of their programs?

Obviously, these alternatives are not necessarily exclusive, but the major emphasis is critical. Whether a student intends to become a performer or a consumer is irrelevant: both need an understanding of how telecommunication operates, and telecommunication is much broader than the skills of a performer. This is not to disregard the legitimacy of some "how-to-do-it" courses, such as programming, possibly sales, and general studio skills. If a university is to be true to its traditional purpose of opening up minds to a wider view than specific job-training skills, then the consumer-orientation must be selected as the basic philosophical perspective against which to make curricular decisions. It is the consumer-orientation that seeks to introduce alternatives, to examine causes, to make comparisons, to analyze effects, to review criticisms, to provide futuristic glimpses, to ferret out the creative capabilities as well as the limitations of the telecommunication media. The performer-oriented curriculum and performance-oriented program is a trap, leading to an exclusivity and concentration of resources on a few students that is ultimately detrimental to the goals of a university and not particularly wholesome for students, since it lacks the more comprehensive and theoretical view of the field of telecommunication. We do not need a professional school of broadcasting which might facilitate the personnel needs of some broadcasters, but a strong program in telecommunication with a consumer-orientation.

The philosophical differences between a performer-oriented curriculum and a consumer-oriented curriculum are sufficiently important in themselves to point the direction in making decisions. The consumer-oriented approach is more relevant to greater numbers of students and is less costly to implement; such an approach is more consistent with the educational objectives of a university than the performer-oriented approach; the consumer-oriented program can also provide students with important skills that have applications in a wider range of career opportunities. The fastest developing career openings for telecommunication students is in small-studio video in business, industry and government. In Albuquerque, within the past three years, several small-studios have been constructed. Mountain Bell's small studio and the compact facility at the Public Service Company are two good examples. Practically every major company and government agency uses video in public relations and training activities. The Albuquerque Public Schools are investing heavily in quality video equipment for both instructional and public information purposes.

Curricular Trends

What are the trends in academic departments? How is telecommunication being handled? Meeske notes that "over the years academic programs in radio and television have generally been accommodated in larger units, usually departments of speech. The largest number of radio-television teaching programs are still in speech departments, but undergoing significant change. Departments are altering their emphasis to communication or speech-communication, and programs in broadcast education are inevitably following suit." Meeske's point is well taken. Across the country, departments of speech are making critical changes

in their orientations, primarily away from the traditional "performance" orientation and toward a more behavioral, consumer orientation. The annual survey of broadcast education conducted under the auspices of the National Association of Broadcasters indicates the persistent character of such changes. From 1968 to 1974, a period of six years, the number of departments of radio-television, broadcasting, etc. offering bachelor's degrees remained the same (56 departments). During that same period of time the number of departments of communication or speech communication offering degrees in broadcasting or telecommunication increased dramatically. Almost twice as many departments (97 versus 56) whose titles include the term communication offered programs in telecommunication than did departments of broadcasting, etc. (Niven, pp. 456-457).

At the University of New Mexico, the transition from speech to communication began years ago and was completed some time back. The Department of Speech Communication is recognized widely for its faculty and the contributions which they make in the four curricular emphases in the field of communication; however, telecommunication has been hampered in its development due to inadequate facilities and limited faculty. Nevertheless, the curriculum is conceptually sound and far-reaching in its implications.

The principles on which the program in telecommunication, especially at the undergraduate level, was established have been summarized by Meeske. His paper has been distributed widely on this campus; nevertheless, a short review of the guidelines in this context may be helpful. Meeske observes that in the past, the "broadcast curriculum has tended to present a narrow view of the role of mass media in society. Emphasis has been on the study of radio and television skills, with little

thought as to how these pervasive mass media fit into the total communicative process. In short, the behavioral method of teaching broadcasting, a touchstone of communication oriented teaching, has not been the traditional method." Hence, he suggests that the broadcast curriculum can be adapted to the communication orientation in the following ways:

1. Retain studio courses, but as lower division requirements.

The student of telecommunication, regardless of career plans, must develop a basic understanding of the principles involved in the production of telecommunication materials.

2. Make studio courses more scientific. Each course must have specific behavioral objectives established which students are to accomplish, so that the designated studio skills can be demonstrated.

3. Require more behaviorally oriented broadcast courses and fewer studio courses. Courses in evaluation, strategies, design, policy, and regulation should be included rather than performance-oriented courses like announcing, advanced TV direction, television acting, and news-casting.

4. Develop a practicum or internship where the student can refine his studio skills. The argument is not that studio courses have no value, but that students with such interests can refine their skills more directly and more quickly through internships.

5. Stay out of the production business. The decision to equip and maintain a broadcast quality studio represents a major financial investment; in addition, once an elaborate studio has been established, there is a tendency on the part of the administration and the broadcast faculty to use it for purposes other than classroom teaching, following a natural inclination to diffuse the enormous cost to other

activities. Communication-oriented departments should maintain simple, relatively low-cost studios for the sole purpose of departmental teaching. Meeske concludes his analysis with the observation that taking these steps would eliminate the distinction between "speech" and "broadcasting" since the concern is with communication, not with any special facet of it. The communication orientation draws more heavily on the use of mass media than on traditional "speech" teaching, for the electronic media enhance a variety of courses not usually considered "radio-television."

Tiemens comments on the union of speech communication and broadcasting programs: "The influence of speech on broadcasting programs has been generally desirable. The concern with theory and research has advanced the field beyond what might be expected if it had developed as strictly a 'professional' program." Tiemens directly asserts the value of the consumer-oriented curriculum: "To fulfill the objective of training mass communicators does not mean that we need be satisfied with simply training reporters, writers, announcers, or cameramen. Any college graduate with a minimum of specialized training can easily fill such positions. Rather, our objective should be to educate each student to his or her maximum potential so that he or she can make intelligent decisions in using the media to promote a free, harmonious and democratic society." Relevant education of that type is deeply rooted in communication theory and its areas of application. Complementary courses in rhetoric and interpersonal and organizational communication include the critical skills and theory for preparation for telecommunication careers in business, industry, government, and broadcasting, as well as for fulfilling the educational objectives of a university education.

Courses

What is the status of the telecommunication program in speech communication? Although modest, the curriculum in telecommunication is more extensive than all other departments in the University combined (see attached advising sequence in telecommunication). The curriculum is organized so as to offer courses in four general areas: (1) studio production, (2) theory and strategies, (3) structure and control, and (4) evaluation and research.

Studio Production Courses

Studio production courses, with syllabi attached, include the following:

265. Telecommunication Production. Beginning course in studio and equipment use. It was designed for and has been used as the introductory studio course for all students on campus.

366. Telecommunication Methods. Intermediate studio, production course open to all students who have completed 265 or equivalent.

367. Telemediated Film. The study and production of film for television; an intermediate course.

465. Advanced Telecommunication Methods. Advanced undergraduate and graduate student projects course in telecommunication message design, with opportunity to refine production skills.

These courses teach students how to work in and manage themselves in a studio, how to operate video equipment, and how to produce a program. The overall skills being developed are those required to take an idea from inception through distribution by electronic means.

The department offers and manages the Communication Intern Program (see attached application and contract) through which students are placed

in local stations, businesses, and government agencies.

The department has a simple, relatively low-cost studio for the sole purpose of teaching. Through skillful acquisition of surplus equipment, through regular purchases of some new equipment, and through the ingenuity of a full-time electronics technician, the studio is functional and operational. With some remodeling to increase floor space, to relocate control rooms, and to reduce safety hazards, a modest teaching studio could result. However, the entire department is in serious need of more suitable facilities. The attached copy of "building needs" of the department has been submitted for review by the university planning committee in order to have priority assigned to construction. The facilities, as described, would provide housing somewhat comparable to new facilities recently constructed for other departments on campus. Speech Communication is one of the few remaining departments with dramatic building needs. It would seem appropriate to meet these needs prior to expanding facilities for other departments who have recently acquired new facilities.

Theory and Strategies Courses

Theory and strategies courses, with syllabi attached, include:

461. Strategies of Telecommunication. A study of the most effective ways of using telecommunication media to accomplish specific communicative purposes, including informing the public, producing attitude change, and entertaining.

464. Telemediated Instruction. A study of the use of video, film and other electronic media in adult and alternative education, including business and industrial training and community development.

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466. Writing for Telecommunication Media. Analysis of standard formats and innovative approaches to the preparation of materials for television, for industrial and business media programs, and for other telecommunication distributors.

561. Seminar: Telecommunication Processes and Effects. A graduate analysis of telecommunication theory and research on effects of electronic media on society.

These courses are concerned with telecommunication theories, systems of electronic communication, the flow of information and the diffusion of innovations through the mass media, and strategies for creating the greatest impact on select audience through the use of the electronic media. Of special concern are relationships among the mass media and interpersonal communication networks, and the place of electronic media in the development of primitive and underdeveloped societies.

Structure and Control Courses

Structure and control of media industries courses, with syllabi attached, include the following:

261. Telecommunication. Introductory course in the history, development, regulation, programming, administration, and audiences of the telecommunication media. A general course for all students on campus.

564. Seminar: Telecommunication Policy and Regulation. A graduate analysis of issues relevant to the management, regulation, control, and structure of electronic media industries.

These courses review the way in which radio and television developed, the structure of the industry, its sources of support and the mechanisms for its control, the content of the telecommunication media,

the audiences in relationship to programming, ownership and responsibility, the fairness doctrine, and the public interest issues.

Evaluation and Research Courses

Evaluation and research courses, with syllabi attached, include the following:

361. Telecommunication Evaluation. An intermediate course in methods of assessing the impact of electronic media on people and society, and issues surrounding the evaluation of the telecommunication media.

These courses examine ways of assessing the effectiveness of the telecommunication media, ascertainment procedures, mass media research methods, and techniques for analyzing the media.

Courses in other curricular lines within the department also analyze how the electronic media affect the messages and the settings with which they are concerned. Courses in organizational communication, for example, look at how media are used within organizations to get messages disseminated. Courses in rhetoric analyze strategies relevant to the use of media in social action programs, political campaigns, and public information programs. Courses in interpersonal communication look at how the media affect interpersonal perceptions and relations, how the media influence interpersonal behaviors, and how the electronic media might be used to learn more about interpersonal communication.

In sum, courses in telecommunication represent a solid, basic program that, in combination with courses in other curricular lines within the department, provide preparation for students interested in careers involved with electronic media. Some of the areas clearly lack a full complement of courses, but the design of the curriculum is comprehensive and amenable to development.

Departmental Needs and Commitments

What are departmental plans and directions for the future? What are major departmental needs in fulfilling its instructional obligation in telecommunication?

Staffing. Through an unfortunate combination of unusual circumstances, the department lost two faculty positions when three senior faculty retired just as restrictions in replacing faculty positions were imposed a few years ago. The departmental program is vigorous, with heavy student loads (introductory courses ranging from 100 to 250 students per section). The department anticipates receiving relief through the return of those faculty positions lost due to an unfortunate historical accident, plus additional positions justified through heavy enrollments.

Curriculum. The department asserts its proprietary rights over the general curriculum in telecommunication as described above, including courses in studio production (with the exception of news broadcasting which is the reasonable province of Journalism, and drama for television which may be properly taught in Theatre Arts), telecommunication theory and strategies, structure and control of the telecommunication industries, and evaluation and research on the telecommunication media.

With appropriate support from the College and University, the department has the foundation in courses, faculty, and studio facilities to teach the following:

1. A basic, introductory course in studio production for students in all departments where a need for familiarity with video equipment and studio operations is desirable.
2. A basic, introductory course in the history, development, regulation, programming, administration, and audiences of telecommunication for students in all departments where a need exists for such

information.

3. Select intermediate and advanced production courses, with the exception of broadcast news and television drama, in the uses of video in alternative education such as business and industrial training, public information and public relations programs, community development and the development of underdeveloped countries, and the diffusion of innovations in society.

4. Advanced undergraduate and graduate courses in the theory, process, evaluation, and research on telecommunication and the mass media in general.

5. Advanced undergraduate and graduate courses in the management, administration, structure, and control of telecommunication industries.

The department asserts its proprietary rights over a general graduate program in telecommunication. We feel that it is important not to proliferate graduate programs in the State, but rather to strengthen current programs. The department is seeking to facilitate the movement of undergraduates interested in graduate work in telecommunication from other departments on campus as well as from undergraduate programs in other colleges and universities in New Mexico.

Although the department is currently functioning with nine faculty with doctoral degrees and one who has completed all requirements except the dissertation, additional staff in telecommunication would allow us to better adapt the graduate program to a large body of students with undergraduate degrees in the allied communication arts and sciences. The department is responsible for and has acquired a wide range of professional journals reporting scholarly research in communication and related support disciplines (see attached list of journals reporting communication research). Faculty of the department are regular

contributors to the literature of the field. Since 1972, current and former faculty have written while associated with the University of New Mexico dozens of research and scholarly articles plus eighteen textbooks, several of which are among the most widely used in the profession. Approximately six more books are in process or under contract.

Cross-listing and joint faculty appointments. The department currently lists courses in television drama offered by the Theatre Arts Department in its section of the bulletin. We would like also to list the courses in broadcast news offered by Journalism on a "See Journalism" basis.

The department would like to have the faculty in Journalism and Theatre Arts who teach broadcast news and television drama on joint or consulting appointments in Speech Communication. On that basis, a small committee would automatically exist which could have responsibilities for coordinating the content of relevant courses and eliminating unnecessary overlapping content. Such a plan would bring those faculty together regularly so that they could become better acquainted and make recommendations to Department Chairs and the Dean concerning telecommunication issues, but especially regarding the two introductory courses in studio production and the history of telecommunication.

Facilities. Because of the size and complexity of the instructional commitment in telecommunication, the department must have its own teaching studios and allied support areas. As a temporary measure, until building plans (copy attached) have been reviewed, approved, and assigned a construction priority, the current studio facility could be remodelled to provide a functional, modest, but operational teaching laboratory. The following changes are minimal:

1. Move the west wall of the studio into the courtyard to create a larger studio area, to allow for the centralization of control rooms, and to achieve visual contact with the studio from control rooms.
2. Create a new entrance into the studio area to eliminate congestion and reduce the safety hazard created by a narrow hallway and stairs leading into the basement.
3. Remove some walls to permit use of a blind office area for storage and work space.

Then, as soon as possible, a total facility should be constructed in which the laboratory studio is simply an integral part of the entire communication building.

Equipment. The College and University must provide an equipment budget adequate to maintain, replace, and update the studio at periodic intervals. The department does not want a facility for broadcast purposes, but it does need a studio with equipment that is compatible with broadcast facilities such as KNME, commercial stations, cable TV, and local small-studios in the business community. An annual equipment budget is essential for this purpose. By the end of this academic year, the department should have an operational 3/4 inch color video studio, with editing and special effects capability. Three-quarter inch portable units should also be available.

Maintenance. Our experience with a full-time electronics technician has clearly demonstrated the efficacy and importance of continuing with this type of technical assistance on the premises. Our technician is able to assist in the supervision of faculty, assistants, and others who work with students so as to reduce misuses of equipment, reduce unnecessary wear, and keep the equipment operational on a moment-by-moment

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basis. It has been especially helpful to have the technician available while equipment is being used to make adjustments, re-activate outages, and provide services immediately. Down-time has been reduced to a fraction of what it was prior to having our own technician. In addition, the technician is constantly involved in the re-evaluation of equipment needs to meet instructional demands. The technician is also alert to ways of increasing instructional effectiveness through the acquisition of surplus equipment, making modifications, and upgrading equipment.

ATTACHMENTS

Department of Speech Communication Building Needs

Communication Intern Program

Requirements

Application

Contract

Telemediated Communication

Advising Sequence

Syllabi for Telecommunication Courses

SpCom 261. Telecommunication

SpCom 265. Telecommunication Production

SpCom 361. Telecommunication Evaluation

SpCom 366. Telecommunication Methods

SpCom 367. Telemedia Film Production

SpCom 461. Telecommunication Strategies

SpCom 464. Telemediated Instruction

SpCom 465. Advanced Telecommunication Methods

SpCom 466. Writing for the Telecommunication Media

SpCom 561. Seminar: Telecommunication Processes and Effects

SpCom 564. Seminar: Telecommunication Policy and Regulation

References

Journals reporting research on Telecommunication

Department of Speech Communication

Building Needs

The Department of Speech Communication is currently housed in two different buildings, with some part-time personnel in a third one. The department is housed in make-shift and inadequate facilities despite demands to accommodate increasing numbers of students. The department has areas which are unsafe, arranged awkwardly, and spatially separated. The department lacks seminar rooms, a departmental commons and lounge area, a library and conference room, research facilities, and adequate equipment storage, check-out, maintenance, and security areas. The department has no classrooms adjacent to the studio which necessitates using valuable studio space for holding classes, and which effectively prohibits the use of video in specialized classes in small groups and nonverbal behavior. Faculty do not have the space and facilities to conduct research, nor are they able to teach classes in the most effective way.

Building needs have been summarized under three major categories: administrative, instructional and research, and studio.

Administrative

This section brings together the usual and unusual administrative functions that occur in this department. Three specialized activities, in addition to routine departmental administration, have demands on administrative space: studio management, forensics administration, and administration of the Institute for Organizational Communication. Needs in these areas are summarized below.

Department Administration

Chairman's administrative office (non-teaching)	150 sq.ft.
Departmental conference room (for holding faculty meetings, special conferences, thesis committee meetings, etc.)	400 sq.ft.
Secretarial offices:	
Departmental secretary	135 sq.ft.
Staff secretary	120 sq.ft.
Student secretaries (incl. work-study students)	300 sq.ft.
Work area, including secure section for faculty mail boxes and place to assemble, staple, and prepare instructional materials	180 sq.ft.
Commons room (comparable to Green Room in Theatre Arts, faculty-student lounges in Philosophy, History, Modern and Classical Languages)	300 sq.ft.

Institute for Organizational Communication

Administrative office for preparation of materials
for distribution, storage, and planning and
organization 135 sq.ft.

University Forensics

Director's office 135 sq.ft.
Assistant Director's office 120 sq.ft.

Studio Management

Studio Manager's office (including program monitor) 135 sq.ft.
Electronic Technician's office (including program
monitor) 135 sq.ft.
Equipment maintenance, storage, and check-out
area 900 sq.ft.

Maintenance area should be equipped with all
needed test and repair equipment

Storage and check-out area should have shelving
all around and would contain all equipment for
studio and student use; including such items as
film cameras and allied equipment, color video
recorders and tripods, field lighting kits,
35 mm slide projects, 16 mm projectors,
audio recorders, video playback units, monitors,
35 mm still cameras with flash, lenses and
filters, shoulder braces, etc.

Teaching Offices

Faculty (15 offices, including an office for
departmental chair for teaching) 1800 sq.ft.
Graduate Assistants (8 offices) 480 sq.ft.

TOTAL ADMINISTRATIVE SPACE NEEDS 5,705 sq.ft.

Instruction and Research

At present, the instructional and research facilities specific to the needs of the Department of Speech Communication do not exist. Each semester, the faculty must deal with classrooms with inadequate seating capacities and arrangements. Frequently, faculty and graduate assistant offices must double for areas where research and testing are conducted. Students also need areas for taping of speeches, class activities, and microteaching sessions, and other areas for reading, consulting in small groups, and for completing research requirements. The following facilities are designed to meet these needs.

Instruction

Department Classroom

1 room, 125 sta. @ 20 sq. ft.

area for department class meetings which require observation, and/or videotaping of class activities (carpeted, chalkboard, movable seats), partitions available for breakdown into five areas of 25 sta. This room must be adjacent to the studio, so that activities specific to class in the department can be observed/taped.

2520 sq. ft.

Seminar Rooms

4 rooms, 15 sta. @ 20 sq. ft.

Rooms for advanced undergraduate and graduate student class meetings (carpeted, chalkboard, working tables which can be moved to fit class needs, movable seats or cushioned areas)

1200 sq. ft.

Forensics Preparation Room

1 room, 20 sta. @ 20 sq. ft.

400 sq. ft.

Departmental Learning Center (see attached diagram)

1 room, 40' x 60'

The center will serve the following functions:

- a. area where students can read/study (Reading Room)
30' x 40'
- b. area where students can take make-up tests and complete written work for class or research studies (Testing Area) 20' x 20'
- c. three rooms where students can videotape speeches, conduct microteaching sessions, view videotapes, listen to required audio tapes (Tape Rooms)
10' x 20'
- d. Reception area where materials can be checked out (books, articles, videotapes, audiotapes, etc.)
10' x 20'

2400 sq. ft.

Total instructional space needs 6520 sq. ft.

Research

Research Facilities (see attached diagram)

Overall area: 40' x 60'

Small Group Laboratories

3 rooms, 10' x 17'
rooms for observation of small group interactions,
microteaching. Adjoining room for observation and
taping through one-way mirror, 7' x 17'

Dyad Laboratories

4 rooms, 8' x 17'
rooms for observation of dyadic interactions and
related research with individual subjects.
Adjoining room for observation and taping through
one-way mirror, 7' x 17'

Data Analysis and Storage Areas

2 rooms, 12' x 16' and 10' x 16'
two partitioned areas for data analysis and storage
of data, research equipment storage

Computer Terminal Room

1 room 8' x 12',
computer proxy hook-up

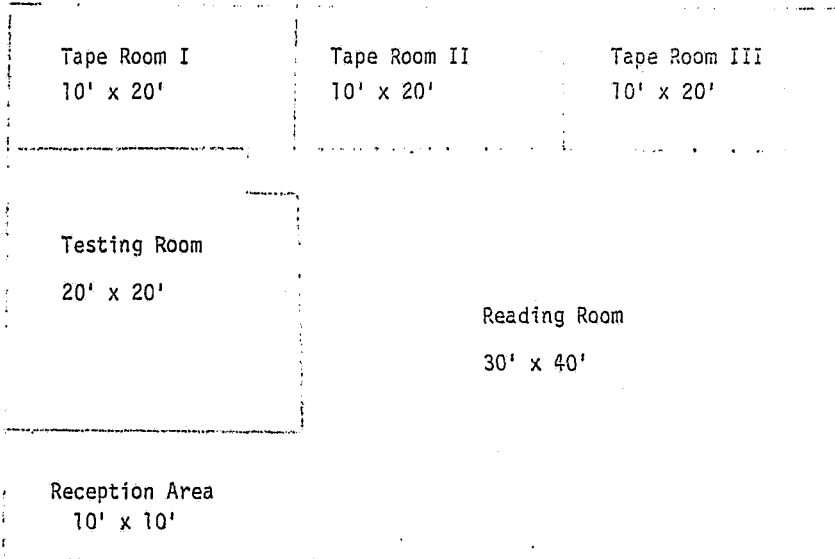
Reception Area

1 room, 8' x 17'
reception area for research subjects for dyad and
small group laboratories

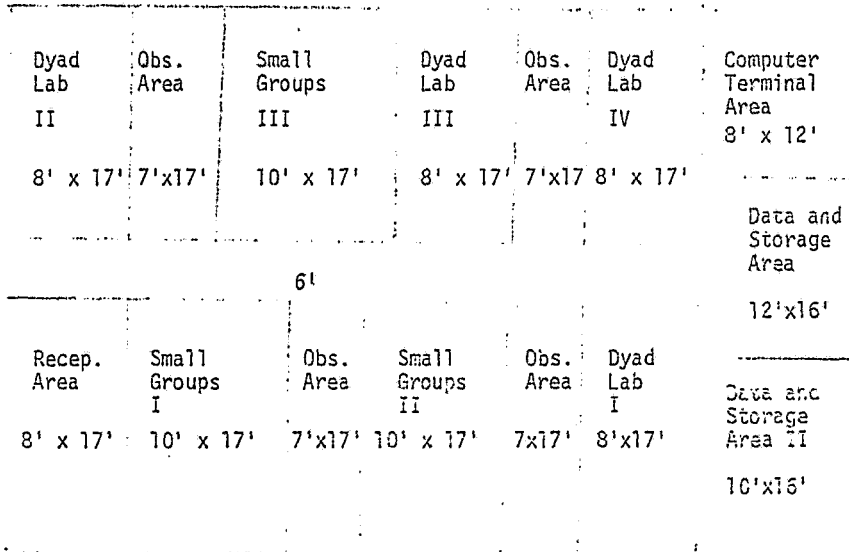
Total research space needs

2400 sq. ft.

Departmental Learning Center



Research Facilities



Studio

This section represents the projected building needs for studio-related activities. Although the department does not subscribe to a "state-of-the-art" vocational-type instruction in electronic media production, it must reach a level of sophistication much beyond the present level if it is to continue at all. The department has a definite interest in and a mission to perform in preparing students for non-broadcast uses of the media. Such a focus achieves an internal coherence in the department with its current offerings in organizational and intercultural communication, rhetorical, forensics, and governmental policy and regulation in the telecommunication field.

The facilities requested are modest and do not aspire to broadcast capability. However, they are the minimum necessary to insure durability in a teaching situation as well as cost/effectiveness. The facilities requested have the purpose of introducing students to the process of using electronic media in a variety of settings. It is impossible to deal with the theory of structural, media constraints and audience responses to the electronic media without a corresponding experience in the actual production of representative messages. The experiences to be gained by adequate facilities will enable students to consider careers in broadcasting, corporate communication, advertising, government communication, industry media management, public-access, and community media organizations.

Studio A

This is a full production studio with concrete floor covered with plastic coating; it should have a 25 ft ceiling and a set of 10 ft x 15 ft outside doors.

The studio should contain the following permanent equipment and other items:

1500 sq. ft.

- Microphone patch panels
- Lighting patch panel and counterweight patterns
- Lighting instruments
- Cameras
- Color studio monitor
- Climate control system for humidity, dust, temperature

Storage area adjacent to studio (set and prop)

300 sq. ft.

Control Room

150 sq. ft.

This room should have 10 ft ceilings and house the following items:

- Monitors for film islands, cameras, video recorders, color effects, preview, and program.
- Character generator
- Lighting dimmer board
- Camera control units
- Remote film and video tape recorder control
- Video tape recorders

Audio Booth

100 sq. ft.

This room should also have 10 ft ceilings and house the following items:

- Reel-to-reel tape recorders
- Audio cartridge recorders
- Turntables
- Tape eraser
- Audio console
- Booth microphone
- Lavalier microphones, hand-held microphones, unidirectional microphones, desk stands, desk-type microphones, extending microphone, floor stands, studio microphone boom

Film Islands

80 sq. ft.

This room should have 10 ft ceilings and will house the following items:

- Multiplexers
- Telecine cameras
- 16 mm magnetic and optical projector
- Super 8 mm magnetic and optical projector
- Drum 35 mm projectors

Video Editing Room

100 sq. ft.

This room should have 10 ft ceilings and will house the following items

- Editing control system for cassette recorders
- Playback video tape recorders
- Editing video tape recorder
- Switcher-fader for editing
- Color monitors

Studio B

This is a modified facility for preliminary work, with concrete floors covered with plastic coating; it could have a 15 ft ceiling. This studio should contain the following permanent equipment and other items:

600 sq. ft.

- Climate control systems for humidity, dust, temperature
- Black and white cameras on cam heads and counter-weighted pedestals
- Lighting set-up including instruments on pantographs, patch board and dimmer board, pipe grid
- Video editing system

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Audio Room	20 sq. ft.
Film Island	60 sq. ft.
Storage Space (for props, set, etc.)	200 sq. ft.

Film Editing Room

This is a room in which to edit films for use on television and to integrate with other systems; it should include the following permanent equipment and other items: 200 sq. ft.

Flat bed editor/viewer
Synchronizer
Hot splicer
Equipment for tape-to-film dubbing
Equipment for tape-to-full coat dubbing
Picture/sound interlock projection

Centralized Tape Distribution Center

This room serves as a depository of video and audio tapes for classroom and studio use, including monitors and audio tape playback units for student review of materials 150 sq. ft.

Dark Room

This room provides for the processing of film for use on television. The room would house the following equipment and materials: 80 sq. ft.

Running hot and cold water, fixtures, and sinks
Enlargers
Print washer and dryer
Light table for examination of negatives
Dry mount press
Trays, thermometers, etc.
Negative dryer
Paper cutter and guillotine
Layout table

Workshop

This area is used for construction of sets, to house power tools, and as a work area. 200 sq. ft.

Graphics Room

This room allows for the preparation of materials such as signs, captions, titles, etc., and should include such equipment and materials as a copy camera, light table, and drawing tools and boards. 150 sq. ft.

Total Studio Space Needs 7055 sq. ft.

Summary

Total Administrative Space Needs	5705 sq. ft.
Total Instructional Space Needs	6520 sq. ft.
Total Research Space Needs	2400 sq. ft.
Total Studio Space Needs	<u>7055 sq. ft.</u>
TOTAL DEPARTMENTAL SPACE NEEDS	21,680 sq. ft.

RWP:mp

1/25/77

OFF-CAMPUS COMMUNICATION INTERN PROGRAM

The Communication Intern Program is sponsored by the Department of Speech Communication at the University of New Mexico. Arrangements are made by the Department to place qualified students in organizations to learn about practical communication problems and to develop ways of solving them. Placement does not consist of on-the-job training, but rather an opportunity to study professional, union, volunteer, parent, health, education, and service organizations.

In order to have some assurance that students are adequately prepared to benefit from this type of educational experience and to provide the expertise necessary to contribute meaningful analyses to problems, each intern must complete the following requirements prior to entering the program. Please review the requirements and, if you qualify, complete the application on the reverse side of this form. Leave the completed application with the Departmental Secretary, 1801 Roma NE, Room 130.

Requirements to be Completed Prior to
Off-Campus Placement as an Intern

1. Thirty (30) credits in Speech Communication courses.
2. SpCom 101 or 102, Introduction to Speech Communication
3. SpCom 265, Telecommunication Production
4. At least one course from each of the following groups:
 - a. 221, 240; 130, 270
 - b. 348; 361, 428, 338
 - c. 367, 366, 461, 464, 465
 - d. 330, 442; 444, 425, 466, 327
 - e. 334, 350, 421, 431

Although not required, it is recommended strongly that students complete one or more of the following courses:

- f. Journalism 251, 252, 340, 401, 402, 440
- g. Business & Administrative Sciences 100, 306, 307, 361; 487.

*If you wish to be placed in an organization, it is strongly recommended that you take these courses.

(continued on reverse)

APPLICATION FOR INTERN PROGRAM IN SPEECH COMMUNICATION

Name: _____

Address _____

Telephone No. _____

Class _____

Major Area of Emphas (Please list appropriate courses or special training.)

Minor area(s) of emphasis (Please list appropriate courses or special training.)

Employment background (Please include volunteer work.)

Career Objectives: (Please be specific.)

Would you be willing to work as an intern for 9-11 hours a week for 3 hrs. credit?
☐ Yes ☐ No Comments: CR/NC ONLY

Would you be willing to work as an intern for 15-20 hours a week for 6 hrs. credit?
CR/NC ONLY

Reasons for wanting to participate in the intern program. (Please attach a separate sheet of paper.)

THE UNIVERSITY OF NEW MEXICO
Communication Intern Agreement

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THIS AGREEMENT is made by and between THE REGENTS OF THE UNIVERSITY OF NEW MEXICO, a corporation of the State of New Mexico (hereinafter called the "University" or "Department"), and _____ (hereinafter called the "Organization").

The Department and the Organization hereby agree as follows:

1. To participate in the Communication Intern Program, the purpose of which is to provide students of communication with an opportunity to receive practical experience in analyzing, preparing, presenting, applying, engaging in, and studying communication in all types of agencies, businesses, industries, and other organizations.

2. That the Department of Speech Communication of the College of Arts and Sciences within the University of New Mexico is recognized as the credit-granting, coordinating, and supervising sponsor of the Communication Intern Program.

3. That qualified students will be selected for participation in the Communication Intern Program from applications submitted to the Department. Interns shall be screened for specific skills relevant to the needs of the Organization.

4. That the Organization will accept an intern only after an official representative of the Organization has interviewed the prospective intern and given formal approval of the applicant.

5. That interns shall be assigned to the Organization for approximately 12 weeks commencing at the second week of a semester and terminating at the end of the thirteenth week. Changes in the length of an assignment may be made when acceptable to the Department, the Organization, and the Intern, but modifications in the number of weeks an intern shall be assigned to the Organization must be stated in writing.

6. That the Organization agrees to accept _____ (no.) intern(s) for _____ semester of the _____ school year for _____ hours per week. The intern will receive _____ credits for satisfactory completion of the internship.

7. That both the Organization and the Department have the right to release or dismiss an intern from his or her duties at any time. Violations of the rules, regulations, or requirements of the Organization, the University and/or the Department will be considered sufficient cause for dismissal.

8. That the Organization will provide direct supervision of the intern.

9. That the Department will provide an advisor who will be responsible for coordinating the academic activities of the intern.

(continued on reverse--)

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10. That where interns are expected to live on-site in order to carry out assigned duties, the Organization will provide per diem or board and room for the intern.

11. That interns will provide their own transportation to and from their assignments within the City of Albuquerque; but that the Organization will furnish or pay for transportation to and from assignments outside city limits.

12. That the Organization may provide compensation to interns for services provided. Nothing in this Agreement shall be construed so as to imply that providing compensation is obligatory or even desirable. This provision is permissive only.

13. That, where possible, the Organization will make a financial contribution to the Development Fund of the Department to improve the quality of the intern program and to defray expenses associated with managing and operating the intern program.

14. That the Organization, the Department, and the intern shall be responsible for providing the following evaluations of intern performance:

a. The immediate supervisor of the intern in the Organization will submit to the Department a narrative report evaluating the performance, progress, and accomplishments of the intern, no later than one week following the intern's exit from the Organization.

b. The advisor of the intern in the Department will make periodic on-site observations of the intern's work, will meet with the intern, and will meet with the Organization supervisor to review the work of the intern.

c. The intern will submit a written report of his or her assignment, performance, organizational relationships, and progress to the departmental academic advisor. The report should include sections describing tasks, experiences in residence, ideas for improvement, training received, and abilities utilized. The report must be submitted within one week following the intern's exit from the Organization.

Date: _____ By _____
Chairman, Department Speech Communication
THE DEPARTMENT OF SPEECH COMMUNICATION
Date: _____ By _____
Faculty Advisor _____ Title _____
ORGANIZATION: _____
(Name)
Date: _____ By _____
Title _____
INTERN _____
(Name)
Date: _____
(Signature of Intern)

Department of Speech Communication

SUGGESTED COURSES FOR A PROGRAM LEADING TO
 CAREERS IN TELEMEDIATED COMMUNICATION and BROADCASTING

 REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
 SpCom 102, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
 SpCom 102, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

102	Introduction to Speech Communication	3
221	Interpersonal Communication	3
261	Telecommunication	3
265	Telecommunication Production	3
327	Persuasive Communication	3
361	Telecommunication Evaluation	3
366	Telecommunication Methods	3
	OR	
367	Telemedia Film Production	
421	Theories of Communication	3
425	Small Group Communication	3
461	Telecommunication Strategies	3
465	Advanced Telecommunication Methods	3
466	Writing for the Telecommunication Media	<u>3</u>
		36 credits

Complementary Courses in OTHER PROGRAMS

Architecture

104	Visual Communication	3
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Art

287	Photography I	3
386	Photography II	3
387	Photography III	3
388	Cinematic Photography	3
389	Photo Communications	3
487	Advanced Photography	3

Curriculum and Instruction

431	Audiovisual Methods and Technology	3
432	Prod. of Instruct. Materials	3

Journalism

261	News Photography	3
277	Graphic Design	3
401	Advertising	3
440	News Programming	3
469	Media Management	3

Psychology

101	General Psychology I	3
102	General Psychology II	3
260	Psychology of Learning	3
363	Psychology of Perception	3

Film

210	Introduction to the Film	3
327-328	History of the Film	3
427	Topics in Film History	3

Theatre Arts

129	Stage Craft	3
255-256	Stage Lighting	3
275	Technical Production	3
305	Rehearsal and Performance	3
351	Television Drama Production	3
352	Advanced Telev. Drama Prod.	3

Speech Communication 261
Telecommunication

Course Goals

This course will attempt to outline and describe the structure and functioning of the broadcast industry. Although the information will be relevant to potential broadcasters, it is presented from the point of view of the consumer rather than the producer of messages. The emphasis will therefore be on criticism and evaluation, not on vocational skills. It is hoped that this will make us all better listeners and viewers, and thus contribute to the progressive humanizing of telecommunication of telecommunication.

The treatment will necessarily be broad, as befits an introductory course, but it is hoped that those who are further interested will have the opportunity to pursue some of the themes looked at here in greater depth through more specialized courses.

Required Readings

Sydney Head, Broadcasting in America: A Survey of Television and Radio. Houghton Mifflin, 1976.

Another book on telecommunication, of a popular nature, on which you will write a book report. See handout.

Evaluation

There will be a mid-term exam (worth 25% of total grade), a final exam (worth 50%), and a book report (worth 25%). Clarification on the book report is offered on a separate handout. The suggested list, from which a book may be chosen, may be expanded after consultation with me. All exams will be objective in nature (short answer, matching, multiple choice). Before each, a study-aid sheet will be issued, which will help you in refining your study/revision by pointing out the topics and themes which are considered most important by the instructor.

General Course Outline

- A. Overview: American Broadcasting in the context of international broadcasting and broadcasting in other countries.
- B. The technology and its use
- C. History of the development of American broadcasting
 - Hardware
 - The corporations
 - Regulation
 - Popular culture
 - Emerging technologies

D. Economic constraints on broadcasting

E. Social constraints on broadcasting

Law

FCC

Public interest

Citizen groups

F. The effects of broadcasting

Violence

Children

Politics

Speech Communication 265
Telecommunication Production

Purposes

1. The student should come to realize that video production is, in essence, a new language -- one that must be learned slowly and carefully.
2. The student should come to realize that video skills, on an introductory level are non-specific, just as language is non-specific.
3. The student should come to realize that the skills gained in Speech Communication 265 can be employed in any area of video production.

Objectives

In contrast to purposes, that state the philosophical intentions of the instructor, objectives indicate what specific skills each student should possess upon completion of the course. After completing Speech Communication 265 each student should:

1. Be able to ready a television camera for operation.
2. Be able to execute the following camera movements: truck, dolly, arc, pan, tilt and zoom.
3. Be able to define the elements of and properly execute basic three point television lighting patterns.
4. Be able to execute the following basic switching procedures on a simple video switcher: take, dissolve, fade-in, fade-out, fade-to, key-insert, and wipe.
5. Be able to set up and plug in microphones.
6. Be able to cue and set proper audio levels for the following equipment: microphones, turntables, reel-to-reel tape, cartridge tape, cassette tape, and sound-on-film.
7. Be able to put all the audio sources listed in item #6 "on line" on command.
8. Be able to give on command the following floor managing signals: Stand-by, Cue talent, Cue talent to camera, Cut, Stretch, From the top, One minute, 30 seconds, 15 seconds, 5-1 seconds.
9. Be able to write and mark for direction a five-minute script.
10. Be able to direct a five-minute program.
11. Be able to produce a five-minute program.
12. Be able to construct graphics necessary for a five-minute program.

Speech Com. 265 CLASS SCHEDULE

- Week 1 -- Camera Movement and Lighting.
- Week 2 -- Video and Audio Switching, Floor Managing
- Week 3 -- Script Marking
- Week 4 -- Direction
- Week 5 -- Production: Noon News
- Week 6 -- Production: Noon News
- Week 7 -- Production: Noon News
- Week 8 -- Production: Picture Essay
- Week 9 -- Production: Picture Essay
- Week 10 -- Production: Picture Essay
- Week 11 -- Production: Final Project
- Week 12 -- Production: Final Project
- Week 13 -- Production: Final Project
- Week 14 -- Production: Final Project
- Week 15 -- Production: Final Project
- Week 16 -- Final Examination

TEXT: Television Production Handbook 3rd ed. by Herbert Zettl
Television Production Workbook by Herbert Zettl

Speech Communication 361
Telecommunication Evaluation

Purposes

1. Examination of American telecommunication media from multiple points of view.
2. To bring the student to the realization that every facet of this multi-faceted element of our culture can be subjected to rigorous criticism, and that they - as media consumer - are socially obligated to become competent critics.
3. To bring the student to the realization that telecommunication media function in a much wider arena than that normally observed by the home consumer. That the educational and communicative functions of telemedia are more critical to our society than the entertainment functions we normally associate with the media.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information the student should possess upon completion of the course. The specific objections for Speech Communication 341 are:

1. The ability to explain and apply the critical theories and structures examined in the reading and discussion.
2. The ability to explain and apply a personally developed critical theory.
3. The ability to explain and evaluate those non-traditional applications of telecommunication media examined in class.

Readings

The New Languages: A Rhetorical Approach to the Mass Media and Popular Culture, by Thomas H. Ohlgren and Lynn M. Beck.

Television: The Critical View, by Horace Newcomb.

Additional readings from current journals and periodicals to be assigned.

Process

The structure of the course will combine four major elements: 1) Lectures, 2) Discussion, 3) Observation of telemediated messages, 3) Research papers analyzing the above. The course will be divided into three major units.

Weeks 1-5 Structure and Critical Theory in Telecommunication.
Paper 1 due first class meeting of 6th week.

- Weeks 6-10 Personal Theory Building, Observation and Application.
Paper 2 due first class meeting of 11th week.
- Weeks 11-15 Non-traditional applications of telecommunication media.
Paper 3 due last class meeting of 14th week.
- Week 16 Review for Final Examination.

Speech Communication 366

Telecommunication Methods

Purposes

1. To move the student from the basic skills level attained in SpCom 265 to the level of video problem solving and message design.
2. To expose the student to a variety of simple message problems in video production, and to acquaint the student with the production group problem solving process.
3. To allow the student to design a video solution to a major problem.

Objectives

In contrast to purposes that state the intention of the instructor, objectives indicate the specific skills and information the student should possess upon the completion of the course. The specific objectives of SpCom 366 are:

1. The student should be able to perform an insert edit, an assembly edit, an audio dub and a video dub on the Panasonic editing system with less than 1/4 sec. error.
2. The student should be able to solve, by writing, producing and directing the answer, a basic video information processing question, i.e. design a program that will provide, for the northern and eastern sections of the country, an accurate image of the Hispanic culture of the Southwest. Assume a grade school audience. Time: 10 minutes.
3. Design the video solution for a major communication problem, i.e. Examine the pros and cons of the storage of nuclear waste in New Mexico. Assume an adult audience. Time: 120 minutes. You may divide time into more than one program.

Texts

Small Studio Production by Quick and Wolf

Teleproduction Shortcuts by Westmoreland.

Process

The structure of the course will combine these major elements: 1) Laboratory, 2) Observation of telemediated messages, 3) Major paper: production book. The course will be divided into these major units:

- Weeks 1 - 3 Editing training and exercises
- Weeks 4 - 7 Observation of minor telemediated messages; analysis of problem and solution.
- Weeks 8 - 10 Production of basic information processing problem.
- Weeks 10 - 13 Observation of major telemediated messages; analysis of problem and solution.

1080

Weeks 14 - 15 Design of video solution to major information questions.

Week 16 Review for final examination.

Speech Communication 367

Telemedia Film Production

Objective

To explore the various methods by which television stations research, produce and air programs which use film or mini-cameras (video). Emphasis is upon programs which are produced outside the studio: local news, public affairs, sports, remotes. After exploration students must be able to produce, direct, and film several programs, preferably of broadcast quality. Students are encouraged to work with community groups to produce public affairs spots and short documentaries for community use.

Texts: Making Movies from Script to Screen: to be purchased

The Video Handbook: on reserve

Super 8: on reserve

A Primer for Film-making: on reserve

Additional readings:

Everything You Ever Wanted to Know About Video

A selection by the student of a book about television production -- for example, The Making of Star Trek.

Assignments

First Assignment (individual): Write, film, direct and produce a one-minute film (super 8, 16 mm or video) on a single concept. Film must include three shots: establishing shot, cutaway and main theme. Shots must be a combination of close up, medium shot and long shot.

Second Assignment: Current news event, 50 to 1 hr. 30 min. Cover an event that is happening in the city. Assignment must be completed in same day of event. (Video must be used or 16 mm that can be processed immediately.)

Third Assignment (group): 5-10 minute documentary. Each group will have a sponsor who will supply film or tape. Group must select crew according to expertise and work closely together in at least two positions. Documentary must follow sponsor's request. Research, script must be handed in BEFORE shooting begins.

General Course Outline

First Week: Refresher course on all video equipment in studio. All students must be knowledgeable about studio equipment and able to operate same before end of week. Students should have taken 265 prior to entering this class, or be able to pass lab tests given in that class.

Second week: How we create. Film: The Making of a 30 sec. Television Spot. The Creative Process.

Third week: The Video System

- Fourth week: The Super 8 camera
- Fifth week: The 16 mm camera
- Sixth week: The television script.
- Seventh week: Producing the show: Pre-Production problems.
- Eighth week: Production problems
- Ninth week: Post-production problems
- Tenth week: Viewing the finished product: All one-minute productions will be aired and critiqued.
- Eleventh week: Editing: We will have guest lecturers from three stations to explain the various editing procedures peculiar to each station.
- Twelfth week: Students will spend one day with a member of one of the stations (whenever possible the student will stay with a photographer).
- Thirteenth week: Problem: Each student will be given a production problem which must be solved within the class time. All problems will be taken from television personnel's actual situations.
- Fourteenth week: Covering the event: Students must be out covering the event, back in studio to edit film (or video), write script and produce story. Aired in studio.
- Fifteenth week: Discussion of problems relating to mini-documentary. Whenever possible, sponsors should visit class and talk about what they wish to see. All film should be bought (or donated), location researched, script written, crew assigned by this time.
- Sixteenth week: Work on mini-documentary.
- Seventeenth week: Air documentaries: Critiqued.

Speech Communication 461
Telecommunication Strategies

Purposes

1. Bring the student to the realization that telecommunication media are structured around "linguistic" or "grammatical" structures, and hence have all the interactive potential of other communicative systems.
2. To make the student aware of the persuasive, argumentative and manipulative strategies evidenced by telecommunication media.
3. To make the student aware that telecommunication media function not only on the mass, or public level but also on the personal and corporate level.
4. To bring the student to the realization that the principles of personal, corporate and public communication are all employed in the production of telemediated messages.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information the student should possess upon completion of the course. The specific objectives for Speech Communication 461 are:

1. An awareness of, and critical competence in basic linguistic and persuasion theory. The ability to define and apply those theories.
2. An awareness of, and critical competence in basic interpersonal, organizational and mass communication theory. The ability to define and apply those theories.
3. The ability to apply all of the above theories in an in-depth analysis of selected telecommunication messages.

Readings

Texts: Mass Culture: The Popular Arts in America by B. Rosenberg and D. White.
Rudy's Red Wagon: Communication Strategies by Rein
Television as a Cultural Force by R. Adler

The Psychology of Speech and Language by Joseph DeVito
Language and Cultural Diversity by R. Abrahams and R. Troike
Language: Introductory Readings by Clark, Eschholz and Rosa
Persuasion: Speech and Behavioral Change by Gary Cronkhite
The Unseeing Eye by T. Patterson and R. McClure.

Process

The structure of the course will combine four major elements: 1) Lectures, 2) Discussion, 3) Observation of telemediated messages, 4) Student papers and presentations analyzing those messages. The course will be divided into these major units:

- Weeks 1- 5 Linguistic and Persuasion Theory as they relate to Telemediated messages.
Paper 1 due first class meeting of 6th week.
- Weeks 6-10 Interpersonal, Organizational and Mass Communication Theory as they relate to Telemediated messages.
Paper 2 due first class meeting of 11th week.
- Weeks 11-15 The resultant strategies as observed in selected telemediated messages.
Student presentations throughout the unit.
- Week 16 Review for final examination.

Telemediated Instruction

Purposes

1. To expose the students to the rudiments of systematic development and design of mediated instructional and training messages.
2. To provide the students an opportunity to work with a client and subject matter expert in the design of such messages.
3. To provide the students the opportunity to produce a mediated message.
4. To encourage the students to recognize their need to pursue further grounding in the principles and techniques of the development and design of mediated instructional and training messages.

These aims will be attained by readings, reports, periodic tests, application of design and analysis techniques, and the initiation and undertaking of a telemediated instructional or training production.

Student's achievement will be assessed by:

1. The readings (reports)
 2. Periodic tests
 3. A diary or log of the designer-client relationship
 4. Documentation of analysis and pre-production
 5. Final production (when applicable)
- Specific behavioral objectives will be pursued by posttests after each topic area.
 - Affective objectives will be assayed by class discussions.
 - No specific production skills will be set out as objectives. The assumption is made that students enrolled in this course have the minimum of production skills (SpCom 265, SpCom 366) necessary to set technical standards for their tasks in conjunction with their clients, and to recognize and correct deficiencies. The course instructor will be available during the second half of the course for consultation concerning technical means to achieve desired education and esthetic values in the productions. This course will deal primarily with principles of telemediated instruction and training. The secondary focus of the course will be the actual production process.

Readings:

You are to read the assigned readings on reserve and write a brief one or two page report on one of them OR any article that turns you on more in your own field. These optional articles can be taken from ERIC or the pertinent journal. The optional articles must relate to the topic at hand.

Post-tests from the text must be handed in on time for credit.

You are also urged to get your report in for each topic before the next topic is started.

Optional readings on week's topic can be taken from the following periodicals:

Training HM51M392 PML
 Ed. & Ind. TV LB 1044.7 E3 PER
 Ed. Broadcasting Int'l LB 1044.7E31 PER
 Ed. Technology LB 1027 T3 PER
 Audiovisual Instruction 371.3305 Au253 PER
 AV Communication Review 371.3305 Au245 PER
 Ed. Media Int'l LB 1043

Grading:

Reports: The body of reports you do is worth 25% of your grade.

Attendance and participation 10%

Diary of your producer-client assignment . . 25%

Analysis Design pre-production and
 (if possible) production of your
 mediated message 25%

Analysis & Design due by March 15

Pre-production due by April 15

Final Exam 15%

Note #1: You can make up for an overdue report by producing 2 for 1.
 Caution: It soon becomes astronomical to get out of a hole.

Note #2: The heavy reading schedule comes during first month and a half of class. Therefore, the bulk of your work will be meeting with your client, consultation with professor, and production of your message.

Description

Non-print media communication emphasizing purposive integration of media. Application of theories of media effectiveness in individual and team projects.

It is assumed that students taking this class have a basic production competence in more than one of the following areas: video production, motion picture and still photography, audio recording and editing, multi-media/multi-screen production. SpCom 265, 366 and/or 367 are firm pre-requisites for this course.

Some Concepts of Importance

Telecommunication - For purposes of this course, we view telecommunication as mediated communication distributed on a more than one-to-one basis, generally at a distance, with minimal opportunities for feedback from receiver to sender. It is a broad concept of which broadcasting is part, but only part. Vocational possibilities exist not only in television and radio stations but in various industries, government at all levels, educational institutions, etc. Consequently, we will deal in this course with a process of communication requiring special skills and awareness -- we will not deal with specific vocational roles and attitudes required for employment in a single industry.

Purposive - The inclusion of this term in the course description gives us a particular focus. Purposive implies intent, and it will be an important part of this course to develop goals (intents) for our mediated communication exercises. A large part of the production effort in this course will be given to the establishment and refinement of goals for a media presentation. The fact that we were able to gather together a script, visuals, music, etc. which made us feel nice when we saw it will not be sufficient in fulfillment of this purposive role.

Production - The ability to manipulate lights, cameras, recorders, etc. is an important and valuable ability for this course. However, this constitutes only one facet of production. Production is a translation process. It is the synthesis of hardware and policy limitations with raw ideas and purposes. Other facets of production include writing, visual conceptualization, production team facilitation, and coordination of personnel and hardware resources.

Major Project

The major project is the purposive, integrated media presentation. It will be a phased project with each phase turned in on deadline and evaluated by the instructor. The phases are as follows:

1. Isolation of Goals (Feb. 7)

Establish the purpose for the project. What will happen once an audience is exposed to it? Why are we developing the project? Who should be reached and how can we best reach them? etc.

2. Treatment (Feb. 14)

First written, sketched, picture of the media presentation which we are designing to meet the goals isolated above.

3. Rationalized Script and Previsualization (March 7)

A full but adjustable script with each major segment rationalized in terms of purpose and in terms of effective media use.

4. Production and Distribution Plan (March 14)

A full plan for actualizing the script. This should include a schedule, crew names, equipment reservations.

5. Production (March 21 - April 25)

Based upon planning to this point, the presentation will be actualized and placed on tape or film.

6. Evaluation Scheme (May 9)

Design and possibly implement research activities which are designed to suggest the relative effectiveness of the media presentation in terms of the goals isolated in step 1.

Upon completion of the course, you will have the major project "package." It will consist of your planning-evaluation papers and some form of media presentation which either constitute the entire presentation or will suggest what other parts of the series will be like.

Course Goals

1. To provide an opportunity to continue to refine production skills in a number of media.
2. To provide the opportunity for acquisition of a phased method in purposive media production.
3. To provide an opportunity in which participants can apply basic principles of media effectiveness in a media message building situation.
4. To provide an opportunity to develop strategies for evaluation of telecommunication presentations.

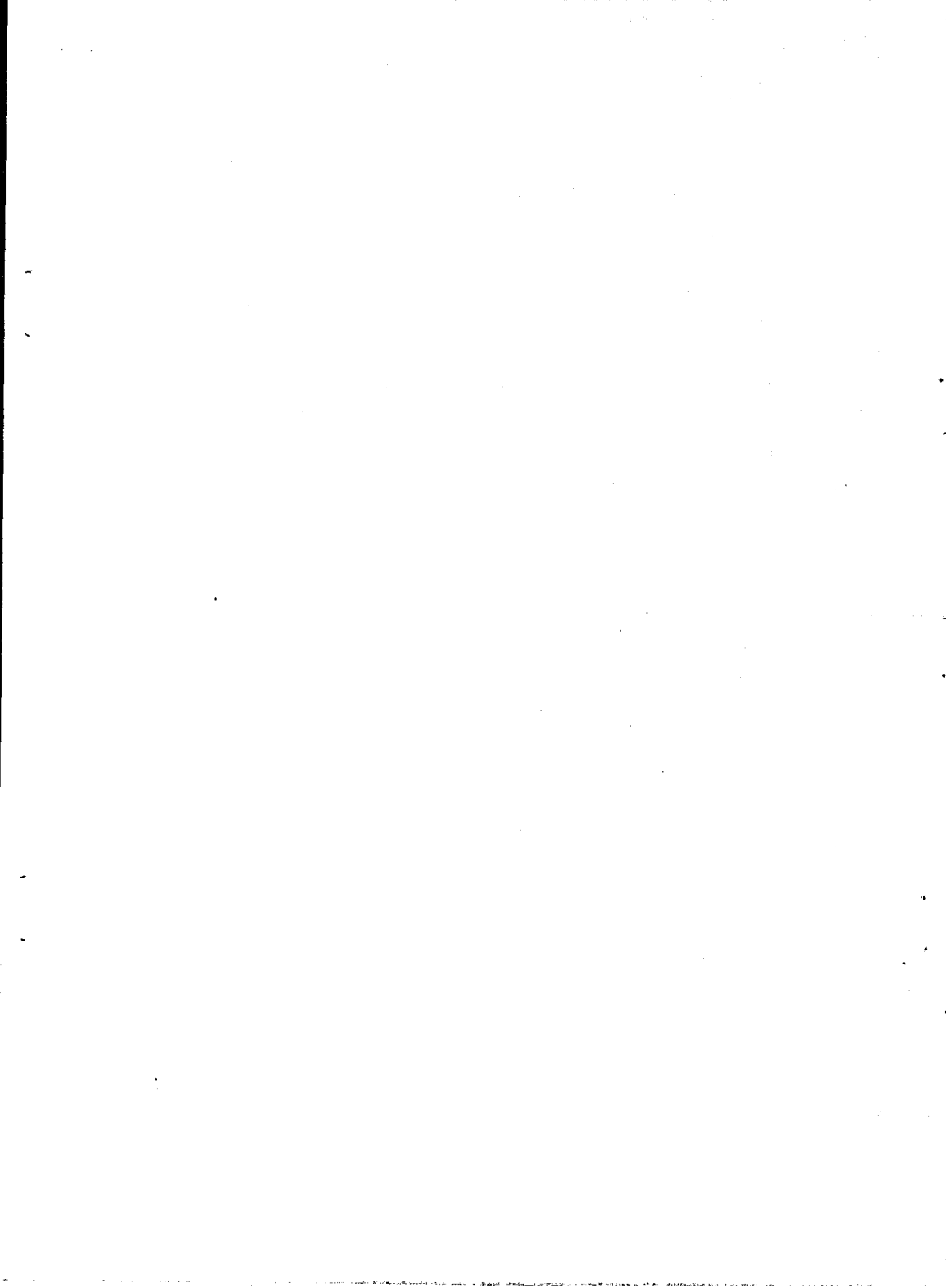
Readings

Caleb Cattegno, Towards a Visual Culture. N.Y.: Outerbridge and Diestfrey, 1969.
 Robert M.W. Travers, Man's Information System, Scranton, Pa.: Chandler, 1970.
 Donis A. Dondis, Primer on Visual Literacy, M.I.T. Press, 1973.

Outline of Materials for Lecture Sessions

Weeks 1 & 2 INTRODUCTION, Organization of laboratories, explanation of course goals, definition of terms, exploration of criteria for evaluation.

- Weeks 3 & 4 THE VISUAL CULTURE. Development of a basic theory of screenic communication (read Gategno and Dondis)
- Weeks 5 & 6 INFORMATIONAL COMMUNICATION AND THE MEDIA. The burden which must be cleared by the informational communicator: attention, acceptance, interpretation and retention. The communication scholar and the media.
- Weeks 7 & 8 HUMAN INFORMATION PROCESSING: IMPORT FOR MEDIA MESSAGE BUILDING. The media message as processed by the receiver. (Read Travers)
- Weeks 9 & 10 DIFFUSION OF INFORMATION. Development of media strategies based upon current views of diffusion.
- Weeks 10 & 11 INTRODUCTION TO METHODOLOGIES FOR ASSESSMENT OF MEDIA MESSAGE EFFECTIVENESS. Developing a plan for evaluation of media messages based upon the intent of those messages.
- Weeks 12, 13, 14 EVALUATION OF PROJECTS



Speech Communication 466

Writing for the Telecommunication Media

Course Goal

To provide an opportunity and a stimulus for exploring the innovative possibilities in writing programs for radio and TV. To do this well, a knowledge of the idioms of the status quo of broadcasting will be necessary, but the emphasis will be on broadening the range between the potentialities and the limitations of the media.

Text

Edgar E. Willis, Writing Television and Radio Programs.
Holt, Rinehart & Winston, 1967.

Assignments

Your radio drama should be intact, if not polished to a bright sheen, by October 5. For the next month, we will concentrate on another script -- this one for television. Here you have a choice:

- a) outline, breakdown and full script of a 30 minute episode of any current, on-going TV series you want to write for (sit.-com., cop-detective, medical, Western, etc.); OR
- b) a 30 minute script for a children's program or an instructional program. The instructional program can be oriented to formal education (based on a lesson or lecture plan), training (government or industry), professional updating (nurses, doctors, lawyers, etc.) or public information. Because of the amount of research involved in (b), only 50% of the program need be fully scripted.

Whether (a) or (b) is selected, it should be completed by November 5.

For the final project, you can choose to script (a) a television documentary on a historical theme, at least 50% of which will be dramatized; or (b) an adaptation of a short story for television. Each of these should be 30 minutes.

Evaluation

The Irish rogue who said, "I'm as good as you are -- and a damn sight better too" was, in his own way, evaluating. Perhaps, as some say, evaluation is too much with us and has become an essential part of this highly competitive society we live in. However, human behavior, especially the more creative kind, seems to need some form of evaluation, whether it be from within or without. The aim here will be to mesh these two as closely as our eyes will allow, so that at least there will be no major divergence between my view of your work and your own view of it.

This is the assignment list. You can choose to be evaluated on all or some of the assignments.

1. Radio Promo #1
2. Radio Promo #2
3. Radio Play
4. Video Poems
5. On-going Series, or children's or instructional
6. Documentary or Adaptation

Grading Option A

1. 5% of total grade
2. 5%
3. 25%
4. 15%
5. 20%
6. 30%

Grading Option B

3. 30%
5. 30%
6. 40%

Try to hand in scripts by the dates indicated, so that creative pressure can be evenly distributed over the available time. However, it is unrealistic to expect all writers to have the same pace. Some work better with a long period of gestation, followed by a highly-pressured, last minute writing frenzy. For this reason, no assignment will be due until December 2. On the other hand, absolutely no assignment material will be accepted after December 7.

(NOTE: Our individual script conferences will be conducted on the assumption that you are working evenly on the assignments, that is, concentrating on each one within the suggested time period.)

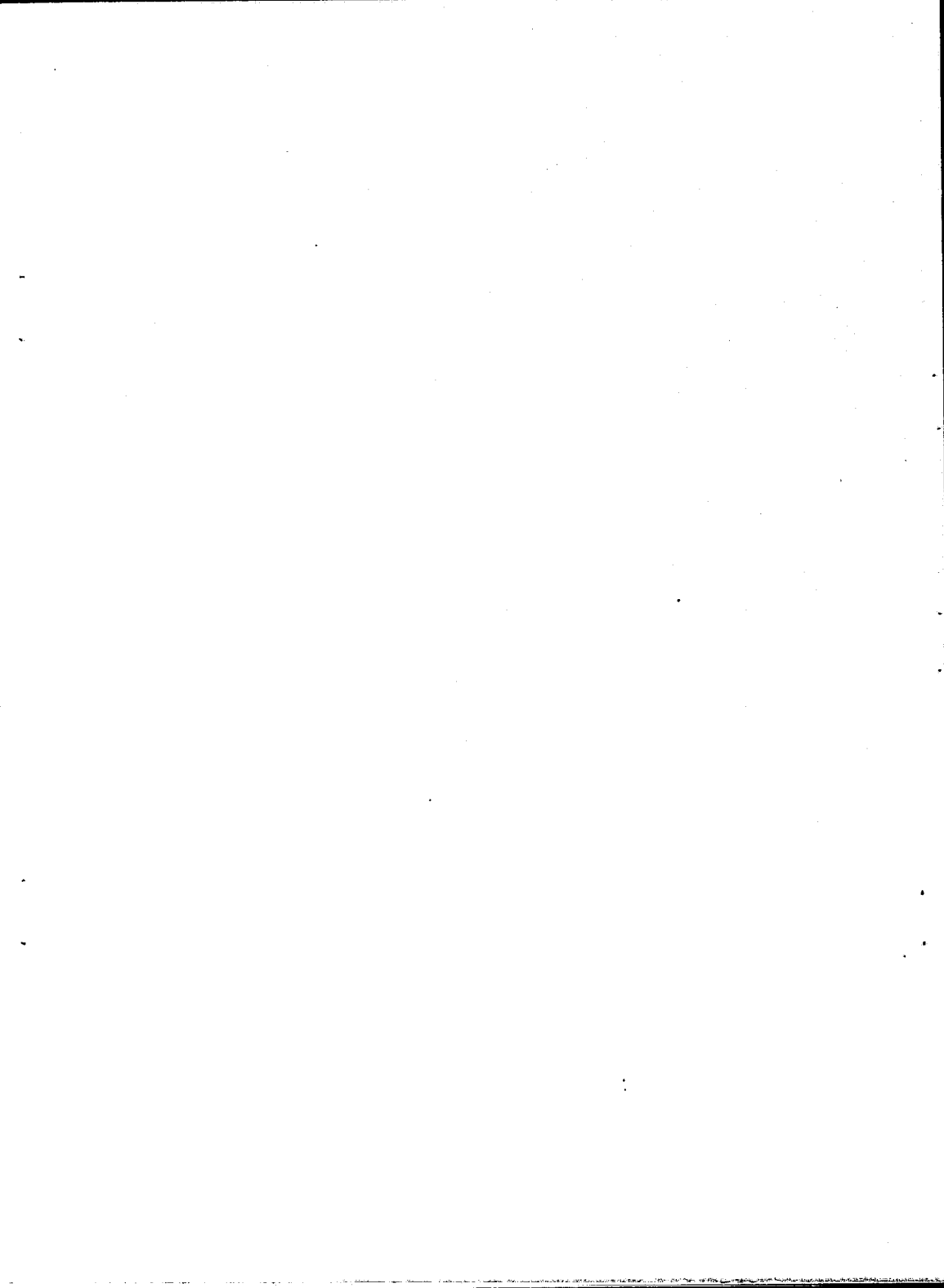
Course Outline

The focus will be on enlarging the use of imagination in enlivening all media genres. In order to allow for individual tastes and aptitudes in this, we will try to keep the course format as flexible as possible. The first portion of the course will be taken up with a consideration of the aesthetic qualities of radio and TV, particularly those aspects of each medium which will be of primary interest to a writer. Application of this to each of the major genres we will examine, will be offered at relevant times throughout the course.

- A. Writing will begin with some warm-up exercises in radio promos -- in order to move imaginations in the direction of micro-dramas, to develop a sense of timing, and to face the frustration and discipline of getting across a message in a medium that few listen to any more.
- B. We will then move on to radio drama, in the belief that radio need not always follow commercial practice but instead offer a challenge to creative writers. It is hoped that radio play scripts will arrive at or near the quality of earplay projects.
- C. Video Poems: This project should last throughout the course, needing, as it does, a long period of imaginative gestation for many, since it is completely experimental. The object is to produce a genuine translation into visual art of two poems, one metered and the other in free-verse form. The end product should be a creatively-produced

re-working of the original verbal material into video form, not simply an illustration with pictures of the material in the verbal medium.

The mainstay of the course will be a writing-and-conference format. Each writer will work in close collaboration (weekly meetings) with the instructor, as each script evolves from concept to outline to breakdown to final script. This format is designed, not to be suffocating, but rather to monitor progress, eliminate kinks, revive after false starts, suggest new directions, nurture, soothe, stimulate, encourage and generally provide a writer's first audience.



Seminar: Telecommunication Processes and Effects

Purposes

1. To promote individual, in-depth research in the area of process and effects in telecommunication.
2. To sharpen individual research skills.
3. To sharpen individual analytical skills.
4. To sharpen individual presentational skills.
5. To encourage individual scholarship in the area of telecommunication.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information a student should possess upon completion of the course. The course objectives for Speech Communication 561 are:

1. Each student will be able to compile an extensive, annotated bibliography in an area of specific research interest.
2. Each student will be able to synthesize that bibliographic information into a concise analysis and presentation.
3. Each student will be able to question and evaluate such presentations.

Process

The structure of this class will consist of these major elements:

1) Lectures by instructor, 2) Lectures by students, 3) Compilation of annotated bibliography for student lectures, and 4) Discussion of the above. These major units will make up the course.

Schedule

Weeks 1-3	Lectures by instructor, outlining areas of concern
Week 4	Topic assignments and research procedures
Week 5	Bibliography due
Weeks 6-14	Student presentations
Week 15	Papers with annotated bibliography due
Week 16	Review for final examination

Speech Communication 564

Seminar: Telecommunication Policy and Regulation

Objectives

To become familiar with the laws, decisions, reports and other documents which pertain to American Broadcasting. Areas will include the development of broadcast regulation, freedom of expression and regulation of programming, freedom of expression and broadcast journalism, regulation of competition and the "Public Interest."

Furthermore decision making in American television will be explored, with emphasis upon the differences between local and network decisions. Pressures from without and within the industry will be explored. Analysis of decisions on local levels in areas of programming, sales, and management will be discussed.

Text

Documents of American Broadcasting, Edited by Frank J. Kahn.
New York: Appleton-Century Crofts.

On reserve:

Power and Decision Making in American Television. University
Microfilms, W. Baker, 1972.

Additional Readings

TV Guides for years 1972-1977

Constitution of the United States.

A selection pertaining to social action: example: Broadcasting and Social Action, Citizen's Broadcast Councils, How to Talk Back to your Television, etc. (see instructor).

General Course Schedule

Section I: Each student will be responsible for a report on a ten-year period in radio and television. The report will contain important laws, changes in programming, a familiar trend identified with the times. In the first part of this class we will concentrate on understanding the television industry and the major policies and regulations that affected its growth.

Section II: We will deal with decision making processes at owner manager level in multiple and large group ownership organizations. Analysis of local station decision making will be based on articles and visits to stations. Areas covered include:

1. Who owns America's TV stations
2. The organizational structure
3. Network program decision-making: reaction to pressures

4. The inputs to the programming system
5. The local station
6. News operation and decisions
7. Influence of sales and selling procedures in local television.

In this section each student will be responsible for a report on some aspect of power and decision making in local television. The basic question explored is: Are American television decisions regarding policy arrived at by a "small and unelected elite" who control what is news and manipulate public opinion.

We shall examine the decision making process within the commercial television industry in an effort to locate the centers of decisional power, to identify who makes decisions, to analyze the scope and extent of the decision making power. Additionally, we shall examine the questions:

Is the American system of broadcasting serving the public interest?
Is the Federal Communications Commission too accommodating to those making the decisions or does FCC interfere in the broadcasters' pursuit of the public interest?

Section III: CATV and Copyright. The Regulation of Competition

This section will focus on Cable, and the future of home communication centers.

Assignment:

A research paper will be due at the end of section III. During the semester the instructor will meet with each student to discuss his or her area of interest in the broad field of policy and regulation.

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- Reed H. Blake and Edwin O. Haroldsen, A Taxonomy of Concepts in Communication (New York: Hastings House, Publishers, 1975), pp. 38-42.
- Ithiel de Sola Pool, Wilbur Schramm, et al. (eds), Handbook of Communication (Chicago: Rand McNally Publishing Company, 1973).
- George Gerbner, "Communication and the Social Environment," Scientific American, September 1972, pp. 153-160.
- Robert J. Glessing and William P. White, Mass Media: The Invisible Environment (Palo Alto: Science Research Associates, 1973), pp. 306-311.
- Peter C. Goldmark, "Communication and the Community," Scientific American, September 1972, pp. 143-150.
- Sydney W. Head, Broadcasting in America, third edition (Boston: Houghton Mifflin Company, 1976).
- Milan D. Meeske, "Teaching Radio-Television in a Department of Communication," Educational Broadcasting Review, August, 1972, pp. 219-223.
- Harold Niven, "Fourteenth Survey of Colleges and Universities Offering Courses in Broadcasting," Journal of Broadcasting, Fall 1975, pp. 453-495.
- John Quick and Herbert Wolff, Small-Studio Video Tape Production (Reading: Addison-Wesley Publishing Company, 1972), Preface.
- Robert K. Tiemens, "Communication in Transition: A Redirection of Divergent Philosophies," paper presented at the annual meeting of the Western Speech Communication Association, November 1973.
- Walter Weiss, "Effects of the Mass Media of Communication," Gardner Lindzey and Elliot Aronson (eds.), The Handbook of Social Psychology, second edition (Reading: Addison-Wesley Publishing Company, 1969), Volume V, pp. 77-195.

JOURNALS REPORTING RESEARCH ON TELECOMMUNICATION

Adult Education
American Behavioral Scientist
Audio
Audio Visual Communication Review
Central States Speech Journal
Communication Education
Communication Monographs
Communication Quarterly
Communication Research
Etc.: A Review of General Semantics
Human Communication Research
Interchange
Journal of Advertising Research
Journal of Broadcasting
Journal of Business Communication
Journal of Communication
Journal of Conflict Resolution
Journal of Creative Behavior
Journal of Educational Communication
Journal of Marketing
Journal of Popular Culture
Journal of Social Issues
Journal of Social Psychology
Journalism Monographs
Journalism Quarterly
Philosophy and Rhetoric
Public Opinion Quarterly
Public Telecommunication Review
Quarterly Journal of Speech
Southern Speech Communication Journal
Speech Teacher
Television Quarterly
Transactional Analysis Journal
Western Journal of Speech Communication

APPENDIX B
UNIVERSITY FORENSICS

FORENSICS AT THE UNIVERSITY OF NEW MEXICO
ANNUAL REPORT
1977-1978

Submitted by:

Van DeStephen, Director of Forensics

Gayle Hardy, Forensic Assistant

Department of Speech Communication

INTRODUCTION

The Forensic program at the University of New Mexico continued to grow in the 1977-78 academic year both in quantity and quality. The University attended more tournaments than in the previous year and for the first time qualified students to compete in a national championship tournament. At the same time the program continued its focus on providing training for students interested in forensics on the high school level.

PARTICIPATION

Over 50 students participated in some capacity in forensics this year at the University of New Mexico. Students can receive credit for forensics through the Speech Communication Department (Speech Communication 275 and 375). Enrollment in these courses totaled 40 students over both semesters. In addition to these students, those enrolled in Directing Forensics (Speech Communication 472) participated as judges of high school speech contests.

ACTIVITIES

Forensics at the University incorporates five general classes of activities: high school judging, college competition, community judging, community demonstrations,

and high school coaching. High school judging involves the use of college forensic students as judges of high school forensic competition. Our students were involved in judging over 18 different high school tournaments throughout the state of New Mexico. In addition to judging at high school tournaments, the forensic program hosted this year's National Forensic League District Tournament. This tournament selects the best high school speech students from a district which includes all of New Mexico and parts of Colorado and Texas for competition at the National Forensic League's National Speech Tournament.

College competition encompasses a variety of speech activities including: debate, extemporaneous speaking, informative (expository) speaking, poetry interpretation, prose interpretation, dramatic duo, after dinner speaking, and communication analysis. This year the University of New Mexico attended 18 college tournaments:

- The University of Utah Fall Scrimmage
- The Top of the Rockies Invitational (Univ. of Wyoming)
- The University of Northern Colorado Invitational
- The Pike's Peak Invitational (The Colorado College)
- The University of New Mexico Invitational
- The Colorado State University Classic
- The Eastern New Mexico Invitational
- The United States Air Force Academy Invitational
- The Sun Carnival Invitational (El Paso Community College)
- The Univ. of Texas, El Paso Invitational
- The Great Salt Lake (University of Utah)
- The University of Southern Colorado Invitational
- The Great Desert (Univ. of Arizona)
- The District Nine National Individual Events Qualifier
- The Rocky Mountain Championships (Metropolitan State)
- The District Nine National Debate Qualifier
- The National Individual Events Tournament (Illinois State)
- The New Mexico Championships (New Mexico Military Institute)

Our community judging this year involved evaluating the district level of the Optimists Club. The forensic squad presented demonstration debates and speeches this year to various high school speech classes within the city and to various classes at the University of Albuquerque. The forensic teams also presented a public debate at the University of New Mexico on Affirmative Action programs.

AWARDS

The University of New Mexico students won a number of awards in competition against students from other universities. Of particular satisfaction to the squad was the qualifying of two students for the National Individual Events Tournament from our squad and the almost complete domination of the New Mexico Championships. The National Individual Events Tournaments brings together the best speakers in the nation in eight different events. The New Mexico Championships is a state tournament in which the colleges of New Mexico compete to determine the best speakers and colleges in the state. The following is a list of awards won by the University of New Mexico forensic squad this year:

1st Place Awards:

- 1st place, Senior Debate, Univ. of Texas, El Paso
- 1st place, Oratory, University of Arizona

- 1st place, Senior Debate, New Mexico Championships
- 1st place, Junior Debate, New Mexico Championships
- 1st place, Extemporaneous Speaking, New Mexico Championships
- 1st place, Expository, New Mexico Championships

2nd Place Awards:

- 2nd place, Impromptu Speaking, Eastern New Mexico
- 2nd place, CEDA Debate, Eastern New Mexico
- 2nd Place, Oratory, University of Southern Colorado
- 2nd place, Senior Debate, Colorado State
- 2nd place, Senior Debate, New Mexico Championships
- 2nd place, Junior Debate, New Mexico Championships
- 2nd place, Oratory, New Mexico Championships
- 2nd place, Dramatic Duo, New Mexico Championships
- 2nd place, Prose Interpretation, New Mexico Championships

3rd Place Awards:

- 3rd place, Senior Debate, University of Southern Colorado
- 3rd place, CEDA Debate, Colorado State
- 3rd place, Senior Debate, El Paso Community College
- 3rd place, Expository, University of Utah (GSL)
- 3rd place, Expository, Metropolitan State
- 3rd place, Dramatic Duo, N.I.T.T. Qualifier
- 3rd place, Junior Debate, New Mexico Championships
- 3rd place, Poetry Interpretation, New Mexico Championships

- 3rd place, Oratory, New Mexico Championships
- 3rd place, Dramatic Duo, New Mexico Championships
- 3rd place, Extemporaneous Speaking, New Mexico Championships
- 3rd place, Expository, New Mexico Championships

4th Place Awards:

- 4th place, Expository, The Colorado College
- 4th place, Oratory, Eastern New Mexico
- 4th place, Extemporaneous Speaking, Eastern New Mexico
- 4th place, CEDA Debate, El Paso Community College
- 4th place, Impromptu, El Paso Community College
- 4th place, Extemporaneous Speaking, Univ. of Texas, El Paso
- 4th place, Oratory, Univ. of Texas, El Paso
- 4th place, Oral Interpretation, Univ. of Texas, El Paso
- 4th place, Expository, Univ. of Texas, El Paso
- 4th place, Expository, University of Utah (GSL)
- 4th place, Expository, Univ. of Southern Colorado
- 4th place, CEDA Debate, Metropolitan State
- 4th place, Expository, N.I.E.T. Qualifier
- 4th place, Expository, N.I.E.T.
- 4th place, Extemporaneous Speaking, New Mexico Championships
- 4th place, Poetry Interpretation, New Mexico Championships
- 4th place, Dramatic Duo, New Mexico Championships
- 4th place, Expository, New Mexico Championships
- 4th place, Oratory, New Mexico Championships

5th Place Awards:

- 5th place, Senior Debate, The Colorado College
- 5th place, Extemporaneous Speaking, The Colorado College
- 5th place, Expository, The Colorado College
- 5th place, CEDA Debate, University of Utah (GSL)
- 5th place, CEDA Debate, Univ. of Southern Colorado
- 5th place, Extemporaneous Speaking, Univ. of Southern Colorado
- 5th place, Expository, Univ. of Southern Colorado
- 5th place, Expository, University of Arizona
- 5th place, Oratory, University of Arizona

Sweepstakes Awards:

- 1st place, New Mexico Championships
- 4th place, Univ. of Texas, El Paso
- 5th place, University of Southern Colorado
- 6th place, El Paso Community College
- 9th place, Metropolitan State

Special Awards:

- 10th place overall speaker, District Nine N.I.E.T.
Qualifier (Dan Ramezyk)
- 14th place, National Ranking of the UNM CEDA Debaters

U.N.M. INVITATIONAL

This year saw the creation of the University of New Mexico Invitational. Fifteen schools from the Inter-Mountain West traveled to Albuquerque to compete in Senior, Junior, CEDA Debate, extemporaneous speaking, expository speaking, oral interpretation, and dramatic duo. The overall award (sweepstakes) was won by the United States Air Force Academy.

FUTURE DIRECTIONS

Next year will hopefully see a continuation of the successes of the UNM forensic squad. The university's growing reputation is attracting outstanding New Mexico high school students for the program. Current plans call for the forensic squad to broaden its range of tournaments to include contests in Kansas and California and to add a high school tournament in the Fall to compliment the Spring tournament.

APPENDIX C
PROCLAMATIONS FOR COMMUNICATION WEEK



THE UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NEW MEXICO 87131

1108

OFFICE OF THE PRESIDENT

WHEREAS, Communications is an old and respected discipline dating back to the cradle of civilization, and

WHEREAS, Communication was one of the cornerstones upon which universities were founded, and

WHEREAS, Societies are formed through communications, and

WHEREAS, Communicative processes are primary to societal progress, fundamental to civilization, the lifeblood of organizations, and central to individual stability,

THEREFORE, as President of the University of New Mexico I proclaim the week of February 19-25, 1978,

COMMUNICATION WEEK

To recognize, honor and respect the central Place that communication occupies in our University and in our lives.

William E. Davis
President
University of New Mexico



Executive Order

1109

WHEREAS, COMMUNICATION IS A PERSON'S MOST SIGNIFICANT AND DISTINCTIVE BEHAVIOR, AND

WHEREAS, COMMUNICATION IS THE BRIDGE THAT CONNECTS NEIGHBORS IN FRIENDSHIP AND SERVICE, AND

WHEREAS, EVERY CULTURAL PATTERN AND EVERY SINGLE ACT OF SOCIAL BEHAVIOR INVOLVES COMMUNICATION, AND

WHEREAS, THE ABILITY TO COMMUNICATE IS ESSENTIAL TO BOTH INDIVIDUAL SUCCESS AND TO GROUP ACTIVITY.

NOW, THEREFORE, I, DAVID RUSK, MAYOR OF THE CITY OF ALBUQUERQUE, DO HEREBY PROCLAIM THE WEEK OF FEBRUARY 19-25, 1978 AS

"COMMUNICATION WEEK"

NEW MEXICO

TO RECOGNIZE, HONOR AND RESPECT THE CENTRAL PLACE THAT COMMUNICATION OCCUPIES IN OUR PERSONAL AND COMMUNITY LIFE.

DAVID RUSK, MAYOR



Proclamation

1110

by
Jerry Apodaca
Governor
State of New Mexico
Santa Fe, New Mexico

WHEREAS, communication is the essence of humanity; and

WHEREAS, societies are formed through communication; and

WHEREAS, communication is the lifeblood of organizations;
and

WHEREAS, communicative processes are fundamental to civilization, primary to societal and cultural progress, and central to individual stability;

NOW, THEREFORE, I, JERRY APODACA, Governor of the State of New Mexico, do hereby proclaim the week of February 19 through 25, 1978, as:

"COMMUNICATIONS WEEK"

in New Mexico to recognize and honor the central place that communication occupies in our personal, community, state, national, and international affairs.

ATTEST:

DONE AT THE EXECUTIVE OFFICE

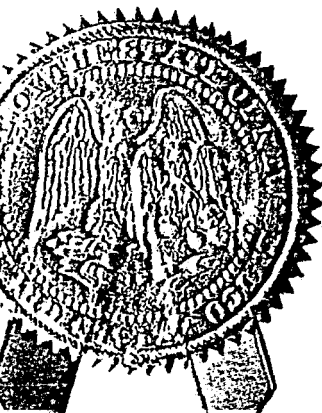
THIS 10TH DAY OF FEBRUARY, 1978

WITNESS MY HAND AND THE GREAT

SEAL OF THE STATE OF NEW MEXICO

Ernestina D. Evans
SECRETARY OF STATE

Jerry Apodaca
GOVERNOR



The Report of the Division of Inter-American Affairs
July 1, 1977--June 30, 1978
Martin C. Needler, Director

A. Significant Developments

1. The following number of degrees were awarded during the report period:

B.A. 4 M.A. 6

2. Enrollment during the report period reached the number of 32 graduates and 12 undergraduates.
3. The former president of Bolivia, Dr. Víctor Paz Estenssoro, served as visiting professor at the university during the spring semester, teaching courses in the History Department.
4. Work on the State Department research contract, "Policies of the Major Latin American ^{oil} Exporting Countries", was concluded. The completed report was presented to the Department of State on December 31, 1977, and has also been submitted for publication.
5. The Division sponsored a lecture in March by Professor Alistair Hennessy of the University of Warwick, England, on "The Art of the Mexican Revolution". The lecture was co-sponsored by the Latin American Center, the College of Arts and Sciences, the Graduate School, and the College of Fine Arts.

D. Professional Activities

The professional activities of the director and assistant director, Drs. Needler and Remmer, have been reported through the Department of Political Science.

The Report of the Latin American Center
July 1, 1977 June 30, 1978
Marshall R. Nason, Director

1113

A. Significant Developments during the Academic Year 1977-78.

It might be appropriate to borrow a term from the world of sports and describe the fiscal year July 1, 1977-June 30, 1978 as one of "rebuilding". A large part of this report will deal with "plans and recommendations", many of which stem from the work of the Task Force appointed by President Davis on May 26, 1976 and charged with a general review of existing entities and operations and with making recommendations for future efforts.

1. The Andean Study and Research Center, Quito, Ecuador. The most significant development associated with the Andean Study Center was the final granting of legal status by the Ministry of Education of Ecuador on May 4th of 1978, after ten years of de facto operational status. The decree, as issued, covers the status of the consortium of the universities of New Mexico which, in its original state, included UNM, NMSU; and NMHU. The latter institution remains an inactive partner until such time as its Board of Regents may authorize participation. New Mexico Highlands, like the others, suffers from the continued unwillingness of the BEF to recognize academic credits earned off campus, and has not been permitted by its Board of Regents to share in the program despite the desire of President Aragón that such be allowed.

The instruction program of the Center remains virtually unchanged. Instructional services are rendered largely by host-country specialists or by North American scholars who happen to be in short term residence in

Ecuador and thus available for assignments. Dr. Nick Dean Mills, Jr., who continues as Director of the Center, also contributes to the instructional program. His administration has been characterized by meticulous attention to scholastic standards and careful organization and staffing of the academic program. Enrollments at the Center reflect the national trend in overseas programs, namely, a decline from the peak period of 1972 for reasons which are not entirely clear but probably reflect diminished student concern for international problems associated with freedom from involvement in conflicts. In any event, as long as the BEF myopia persists, it is to UNM's advantage to have a relatively low quota of students at the Center provided that NMSU and other collaborating institutions, such as Northern Illinois, add sufficient to the total enrollment to warrant maintaining the effort. The greater the number enrolling from elsewhere, the smaller U.N.M.'s loss in revenue from State allocations.

The Latin American Center has just furnished the Dean of Arts and Sciences, at his request, a detailed report including enrollment data, course distribution, inventory analysis, cost per student figures and other baseline data, including recruitment procedures and inputs from other institutions, to the end the Central Administration may arrive at some decision regarding the continuation of the program, which is now concluding its tenth year of operation.

2. ACTION-Peace Corps Liaison. The most recent component to come under the umbrella of the Latin American Center is the Peace Corps Liaison office which the Center director undertook to negotiate in 1976, proposing Mr. Harvey Buchalter, an ex-volunteer and a doctoral candidate in Ibero-American studies as principal. Mr. Buchalter maintains office hours in

in space adjacent to the Latin American Center in Ortega Hall and has been active in symposia and recruiting activities organized by him throughout the State, as well as in meetings convoked by Peace Corps in neighboring metropolitan areas such as Denver and Dallas. Mr. Buchalter's services as Liaison Officer have literally set national standards in terms of college recruitment quotas, to the extent that his budget has increased from \$3,100 in the first year of operation to \$8,655 in the 12 month contract effective March 1 of this year.

3. Extra-Curricular Programs in Support of Area Studies. To the extent that funds permit, the Latin American Center provides total or partial (more often the latter) support for symposia, lectures series and events in the performing arts. In some instances the initiative is taken by the Center itself, in others, support is given in response to departmental requests. An event which attracted national and limited international attention was the "Simposio Internacional de Literaturas Hispánicas" (October, 27, 28, 29, 1977) organized and directed by Dr. Dinko Cvitanovic of the M and CL faculty and jointly sponsored by the Department of Modern and Classical Languages and the Latin American Center, the latter providing subvention for a considerable portion of the Latin American input. Other funding was provided by the Spanish government, a publishing house, and the College of Arts and Sciences. Distinguished Latin American participants included: José Emilio Pacheco (Mexico) and Héctor Ciocchini (Argentina) in the field of Poetry, Manuel Zapata Olivella (Colombia) in the novel, and the critics Luis Harss (Argentina - U.S.), Julio Ortega (Perú) and Galo René Pérez (Ecuador). The Latin American Center, in addition to funding, provided necessary house-keeping and

transportation functions for the sessions in Albuquerque and Santa Fe. The meetings drew special attention by virtue of the new liberalized régime in Spain which permitted, for the first time, Spanish dissidents to participate in professional assemblies abroad. In consequence, the New Republic of December 24 and 31, 1977 carried an enthusiastic piece of coverage.

A second event which drew considerable press coverage, both local and national, was the "Town-Hall - Great Decisions" public forum on the Panamá Canal Treaties of January 17th, 1978, jointly sponsored by the Latin American Center and the Division of Continuing Education and funded by the New Mexico Council for the Humanities. The forum was attended by some 500 persons who heard expositions by Senator Harrison Schmitt (R., New Mexico) and Ambassador David Popper, Deputy for Panama Canal Treaty Affairs, who expressed opposing views after which, in a meet-the-press format, they were queried by members of the local news media. A special feature of the session was a direct line telephone call from President Carter at the White House which was taken by the moderator of the meeting, Dr. Marshall Nason, over a hook-up permitting simultaneous reception by the audience. President Carter then answered at some length a question formulated by a member of the public, selected by the media representatives and relayed to him by the moderator. Other Latin Americanist faculty participating in the event were Dr. Pedro R. David, Chairman of the Department of Sociology and Dr. Michael Conniff of the Department of History. Balloting concluding the session gave a 70% affirmative reading from amongst the predominantly University audience.

Lectures and programs sponsored wholly or in part by the Latin American Center were as follows:

Carmelo Mesa-Lago, Director, Latin American Center, University of Pittsburgh, "The Economy of Cuba, Past, Present and Future", August 23, 1977.

Dr. David Grant Smith, Economic Analyst, U.S. Department of State:
"Why the Canal Treaty? The Official Position".
September 28, 1977.

Dr. J. H. Elliot, Princeton University Institute of Advanced Study:
"The Count-Duke of Olivares: The Problems of a 17th
Century Statesman." October 31, 1977.

Rodolfo E. Braceli, Argentine poet: "Nuevamente: ¿Qué es poesía?"
November 8, 1977.

María Fernanda, noted Brazilian actress and interpreter of verse:
"Poems set to Music" February 9, 1978.

Dr. Alistair Hennessey, University of Warwick England, "Art and Revolution
in Mexico". March 27, 1978.

Saúl Ibargoyen Islas, Uruguayan poet and short-story writer: "A Reading of
Contemporary Verse". April 27, 1978.

Benigno Almeida Faria, Noted contemporary Portuguese author and critic:
"The Contemporary Literary Scene." May 27, 1978.

The Latin American Center has also been able to support either wholly
or partially, the professional participation of UNM Latin Americanists
in national and international meetings with a view towards continuing to
project institutional prominence in the field. Faculty travel and per diem
has been accorded in the following instances:

Pedro R. David, Sociology, to Washington, D.C. for contract discussions
with the Organization of American States, July 7 - 14, 1977.

Nelson P. Valdés, Sociology, to participate as a panelist at the
American Political Science Association meetings, Washington, D.C., September
2-5, 1977.

Martin C. Needler, Division of Inter-American Affairs, to attend 7th
National Meeting of the Latin American Studies Association, Houston, Texas,
November 2 - 5, 1977.

Gilbert W. Merx, Sociology, to attend the Seventh National Meeting of
the Latin American Studies Association, November 2 -5, 1977.

Marshall R. Nason: to Washington, D.C. to attend White House - COACT meetings with Pres. Carter, Vice Pres. Mondale, Kissinger and others on the Panamá Canal Treaties. November 17, 1977.

Dick Gerdes, Modern Languages, travel to Cuernavaca, Mexico to present a paper at the annual meeting of the North Central Conference on Latin American Studies, January 19, 1978.

Nelson P. Valdés, Sociology, partial in-country travel to facilitate acceptance of invitation by Cuban Ministry of Culture, January 25, 1978.

Marshall R. Nason, Latin American Center, in-country segment of trip to Madrid, Spain, to read a paper at the A.A.T.S.P. Seminar on Study Programs Abroad, June 26-30, 1978.

4. General Support Services. The Latin American Center has continued to support the cross-listed course "Latin America Through Film" (Latin American Studies, Sociology, political Science 250) by funding of the film rentals essential to the conduct of the course. The Center has also made limited film purchases for the same purpose. To the extent possible, seed money has also been provided for the implementation of new inter-college degrees such as the MBA/MA in Latin American Studies, although this year's funding has provided much less than that of the previous year for developmental travel, acquisition of instructional equipment and materials, etc.

The Center is serving, for the first time, as the domicile for the Student Work Program for Latin America, and is providing faculty sponsorship as specified by the ASUNM charter. This organization, which operates in conjunction with student groups at New Mexico State University, is designed to furnish low to mid-level technical assistance in health services, agriculture, education, commerce and other fields in collaboration with Central American government ministries, Peace Corps and private voluntary agencies. The local student director, Mr. Miguel Quintana, who conducts his business at the Latin American Center, has engaged (and will direct in

the field) the services of sixteen student volunteers for the summer of 1978. Work will be carried out largely in Honduras and El Salvador. The Center director serves as faculty sponsor.

Other services have included: (1) preparation of project proposals such as the Title VI. N.D.F.L. Fellowships renewal request, a data-laden document which resulted in the renewal of the small quota of grants for an allocation of \$16,900. (2) preparation of technical reports giving evidence of University compliance with such grants, (3) preparation of surveys and status reports for various domestic, foreign and international agencies and organizations, (4) retrieval, accumulation and analysis of data relative to Latin American studies at the University of New Mexico, support of program implementation, and (5) fiscal backstopping of the Andean Center, as well as logistical support and preparation of student contingents. The Center has also functioned as the central communications link between the federal government foundations and private voluntary agencies and Latin American specialists on the University faculty and transmitting advices regarding fellowship and research perspectives, impending events of inter-American character, while maintaining also the local communications network. In short, it has continued to serve as a clearing house for all Latin American programs on campus and with all off-campus entities making inquiry about such programs.

To the extent possible, the Center also serves as a contracting agency for Latin American activities as a whole and for special projects as the latter may arise. The Center is now in the final stages, for example, of contract negotiation with the Community Services Administration, Washington, D.C., for research workshop on the problem of the undocumented worker in U.S. society, of which exercise will be a publication of findings

which may serve as a data base for future policy formulation.

The Ibero-American Studies doctoral program continues to be domiciled in the Center which handles all student inquiries, processes applications and performs all other administrative support services, including student advisement, scheduling of courses, administration of exams, etc. The Center director continues to serve as director of the doctoral program.

Where recruitment involves interdisciplinary assignment, the Center may exercise a rôle in the search and hiring process. During the fiscal year just concluded such a search was conducted for a Latin Americanist with expertise in crossdisciplinary team research and association with foundations and granting agencies. As of this writing, an offer has been made to Dr. Louis W. Goodman, a sociologist with the Social Science Research Council of New York.

B. Significant plans and recommendations for the near future.

As soon as the moment is opportune, i.e., when the federal government announces another funding cycle for language and area centers, we propose to enter a strong bid for refunding, the hope being to recapture all or part of the allocation lost in recent competition. If congressional appropriations are adequate, and if HEW follows more or less established practice, competition should be announced sometime during the next fiscal year.

In the meantime, plans are moving forward for a sweeping revitalization of the Latin American studies and programs at UNM to the end that any new bid for outside subvention will be significantly enhanced. A proposal for a newly organized Latin American Institute at the University of New Mexico has been approved by the Research Policy Committee and accepted for implementation by the Provost, presumably as funds permit beginning with

fiscal year 1978-79. Full implementation may be briefly delayed even after formal inauguration for budgetary reasons.

The proposal was the end-product of deliberations by a special Task Force appointed by President Davis and charged with a thorough-going review of all programs, structures and activities relating to the Latin American area and with making recommendations for improved integration of resources. Implicit was the need to consolidate somewhat diffuse entities, including academic, administrative, research and technical assistance components. One of the influential models during the formulation of the proposal was the Latin American Institute at UCLA, though much of the proposed structure reflects the way in which the Task Force conceptualized local resources and prospects.

In framing its proposal the Task Force also had in mind the need for more active faculty participation in setting policy for Latin American programs. Thus, a series of Dean's committees were proposed at the College level, together with a Policy Committee giving college and program representation, and a Faculty Concilium to serve as a general constituency for the large number of specialists committed, through teaching, research and technical assistance, to the Latin American field. All in all it was concluded that such a structure, in addition to imparting greater visibility to one of UNM's traditional commitments, would facilitate the coordination of teaching, research and service efforts in the Latin American field, stimulate cross-disciplinary and inter-college collaboration, permit the more effective pooling of resources, and increase the scope of public outreach, particularly to the pre-collegiate schools and the community in general.

As projected, the current Latin American Center will be incorporated into the new Institute structure as its principal administrative support component. The budget of the Center will also be integrated into the overall fiscal structure of the Institute. The day to day operation of the Institute will be under the supervision of an Executive Director who will be responsible to a Policy Committee which will determine the course of action for the three main divisions of the Institute, namely: 1) Academic Programs and Research, 2) Contract Programs and Technical Assistance, and 3) Support Services.

The revised organizational chart, as proposed, will show the Latin American Institute depending from the Office of the Provost in direct line of responsibility. The Provost, or his designated representative will also serve on the Policy Committee of the Institute, as will the Executive Director of the Institute and the directors of current programs, namely, Inter-American Affairs, Ibero-American Studies and Latin American Programs in Education. (See the organization chart which appears at the conclusion of this Report). Lateral inputs to the Policy Committee will come from the Deans' Committees and the Faculty Concilium.

Ideally, future plans should also call for the housing of all affiliated units in a single facility, although a realistic view of finances suggests that this may be deferred for some time.

In addition to the more efficacious coordination of existing activities and the stimulation of interdisciplinary research and teaching, it is hoped that the Institute may provide for a modest monograph series, augmented funding for individual and team research, funds to provide access to primary sources (travel) and additional seed monies for seeking sponsored

research and other types of unit and/or faculty subvention.

Though the line has not yet been formally approved or the position published, it is anticipated that administrative strength may be enhanced by the addition of at least a half-time associate director for federal agency and inter-American liaison. Under current circumstances the University has suffered from lack of direct access to government departments, legislative chambers, international organizations, foundations and private voluntary agencies most of which are concentrated in Washington and New York. The services of a well connected individual could be of infinite assistance in bidding for outside support for the program.

Previous reference has been made to an impending faculty appointment which, it is hoped, may nearly coincide with the inception of the Institute structure and which may be identified with it. The specialist so named could conceivably carry the designation of Director of Interdisciplinary Research and, if such is consensus, have a portion of his time assigned to the Institute.

Future plans also include specific activities such as the following:

- 1) The above-mentioned Research Workshop on the Undocumented Worker, 2) a Hispanic American Conference on Inter-American Affairs (proposed for joint conduct with State and OAS), 3) an appropriate technology center for Latin America and the Spanish Southwest, and 4) a central repository for educational films relating to Latin America and useful to instructors in inter-disciplinary courses, perhaps with joint auspices of the Consortium of Latin American Studies Programs, the institutional arm of the Latin American Studies Association, and funding by a private foundation. It is also contemplated that in the line of "outreach" we shall become progressively more

engaged in a summer institute on Latin American studies now getting under way at the Santa Fe Academy with the joint collaboration of UNM and Stanford University.

C. Appointments to Staff.

The only staff change in lines other than student employment was the hiring of Miss Susan Tritten as a temporary replacement for Mr. Garth M. Hansen, Administrative Assistant, who elected to take a leave of absence to conclude work on a doctoral dissertation. Miss Tritten like Mr. Hansen, is a doctoral candidate in Ibero-American Studies. Her duties involve largely administrative backstopping of the Andean Study and Research Center at which she was a former enrollee. Miss Tritten's effective date was February 13, 1978 and her termination date June 2, 1978.

The services of Miss Christina Ruiz-Esparza as a student secretarial-clerical assistant were engaged on April 12, 1978.

D. Separations from Staff.

Reference has been made in paragraph "C" above to the leave of absence of Mr. Garth M. Hansen, Administrative Assistant, from February 12 until June 5 to engage in dissertation writing. The only other staff changes are at the student level. Work-study employee Miriam Duarte resigned on April 10, 1978; the work-study slot has remained unfilled for the concluding weeks of this fiscal year.

Miss Martha Fellig, Departmental Secretary, elected beginning September 1st, 1977 to reduce her work-load to .50 FTE in order to pursue studies of interest. The remaining .50 FTE has been filled first, by Miss Rita M. Vega who withdrew on April 10, 1978 and subsequently by Miss Christina Ruiz Esparza, as indicated in paragraph "C" above.

E. Publications.

All publications of faculty associated with the Latin American Center are reported by the departments of academic assignment.

F. Outside Professional Activities of Staff Members:

The Center director, Marshall R. Nason, engaged in the following outside professional activities:

1) Attended the Seventh National Meeting of the Latin American Studies Association, Houston, Texas, November 2 - 5, 1977. Chaired the pannel jointly sponsored by LASA and CLASP on "Non-Academic Employment Opportunities" for Latin Americanists, and subsequently edited the proceedings for publication by CLASP.

2) At the invitation of Averill Harriman and Hugh Scott, attended the White-House - COACT meetings on the Panamá Canal issue in Washington, D.C., November 17 - 19, 1977.

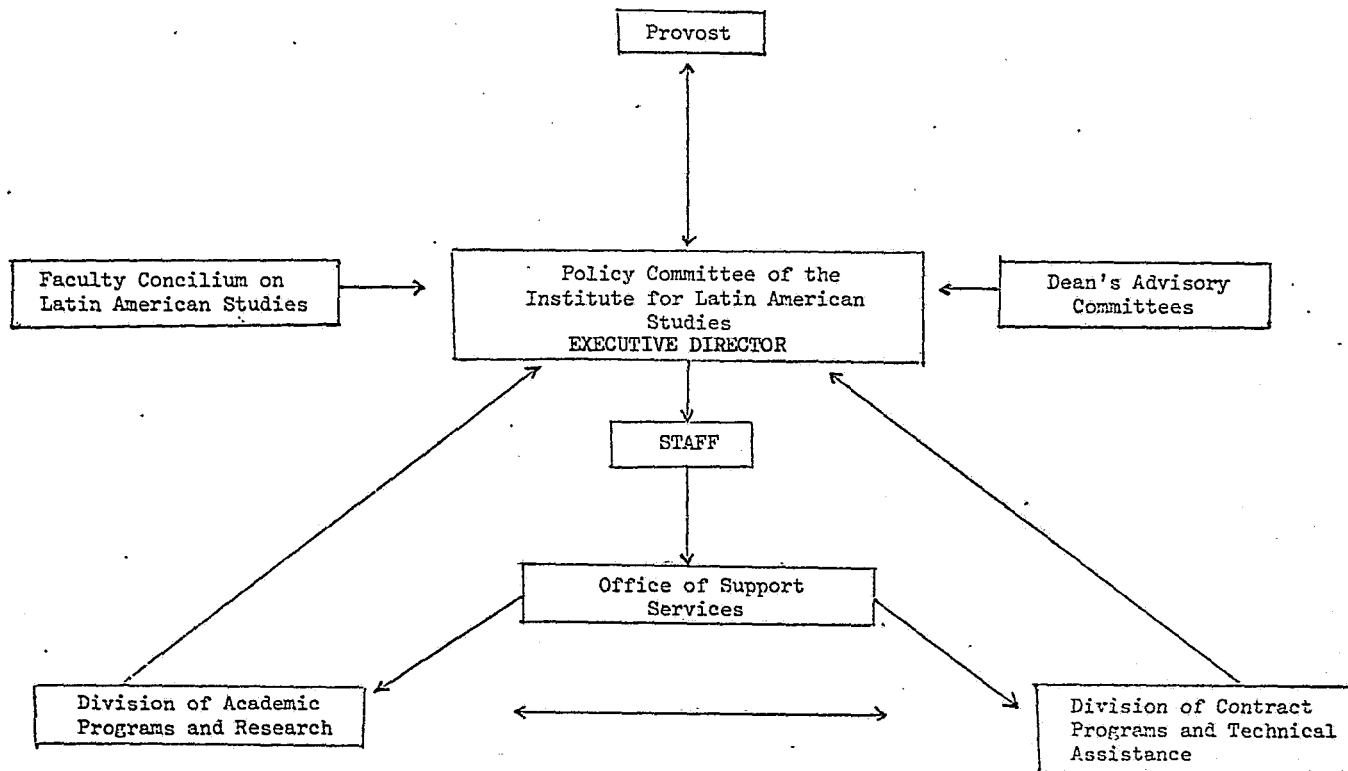
3) Presided over "Great Issues-Town Hall" Meeting on the Panama Canal Treaties, jointly sponsored by Continuing Education and the Latin American Center and funded by the New Mexico Council for Humanities. Served as moderator for public forum following the Presidential phone call and presentations by Ambassador Popper and Senator Schmitt. January 17, 1978.

4) Participated as panel member in Public Forums on the Panama Canal Treaties in Los Alamos, February 20, 1978 and in Santa Fe, February 21, 1978.

5) Attended meetings of Andean Center Consortium, NMSU, Las Cruces, February 14, 1978.

6) Was accorded plaque of appreciation by the International Center for support of that organization and was honored by special municipal decree read by Mayor Rusk declaring April 8 "Marshall Nason Day".

7) Read paper at the Conference on Study Programs Abroad of the American Association of Teachers of Spanish and Portuguese ("En la mitad del Mundo : the UNM Program in Ecuador"), Madrid, Spain, June 26 - 30, 1978.



ORGANIZATIONAL CHART OF THE PROPOSED
LATIN AMERICAN INSTITUTE OF UNM

Membership of the Policy Committee:
 Chairpersons, Dean's Committees (6)
 Representatives, Faculty Concilium (3)
 Provost or his representative (1)
 Director of the Latin American Institute (1)
 Program Directors, Major Programs (3)
 Total: (14)