

6-30-1971

# Annual Report of the University, 1970-1971, Volumes 1-3

University of New Mexico

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1970-71

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THE REPORT OF THE DEPARTMENT  
OF INTERCOLLEGIATE ATHLETICS

July 1, 1970 - June 30, 1971

Pete McDavid  
Athletic Director

I. At the varsity level our teams have competed in the following sports: football, basketball, track, cross country, baseball, tennis, wrestling, swimming, golf, gymnastics and skiing. Freshman teams played regular schedules in football and basketball. A total of 168 athletes received major letter awards; 46 freshmen athletes were awarded numerals in football and basketball, making a grand total of 214.

We have completed our fifth season in the new University Basketball Arena. We set another new attendance record - a total for the season of 212,168, an average of 14,144 each game. Attendance ranked first in the nation. All past records as far as gate receipts taken during the season were broken.

The Lobo Invitational was again one of the most successful tournaments in the country, and this is reflected in the great number of outstanding teams that will be participating in future tournaments. Some of these include Stanford, California, Michigan State, Iowa, Minnesota, Columbia, Bradley and Illinois.

We moved into our new Athletic Building in January 1971 located on the South Campus. This completes our Athletic Complex on the south campus and is definitely one of the finest facilities in the country.

Our football team under the guidance of Rudy Feldman definitely came into its own this past season finishing with a fine 7-3 record. We were second in the Western Athletic Conference, playing the last game of the season for the championship against Arizona State University at Tempe. This game was played before an all-time record attendance for the State of Arizona exceeding 52,000 fans. Coach Feldman was named Rocky Mountain Coach of the Year by Coach and Athlete magazine, and was also named the WAC Co-Coach of the year. Houston Ross, Sam Scarber, Fred Henry and Jay Morrison made All Western Athletic Conference First Team. Prospects are indeed bright for an excellent season in 1971.

Under the guidance of Coach John Mechem the University of New Mexico had one of its finest years in swimming. We tied for second in the Conference, had a 9-1 dual meet record and won nine out of 15 places in the Conference Championships. Steve Craven and Rick Klatt placed in the top ten in the NCAA and were named to the All American Swimming squad.



Coach Rusty Mitchell's gymnastics team turned in another outstanding performance winning the WAC Conference Championship and placing 4th in the NCAA Championships. Stormy Eaton was again the All-American in gymnastics winning a second place in all-around performance and he also set an all-time record in the WAC Conference by winning this particular event for four consecutive seasons.

We are particularly proud of the fact that Larry Minarsich, baseball, Willie Long, basketball, and Joe Hartshorne, football, made the All-American Academic teams in their respective sports. The following young men made the WAC All Star teams: Houston Ross, Sam Scarber, Fred Henry and Jay Morrison in football, Willie Long in Basketball, Bob Faford, baseball, and Greg Harmon in golf.

The following attractions were held this year in either Johnson Gymnasium or the University arena:

1. New Mexico High School Swimming Tournament
2. New Mexico High School Wrestling Tournament
3. New Mexico High School Band Festival
4. New Mexico High School Cheerleaders Clinic
5. New Mexico State Science Fair
6. Fifth Annual Lobo Invitational Basketball Tournament
7. National Youth Sports Program sponsored by the University of New Mexico in collaboration with NCAA and the President's Council on Physical Fitness

In addition, our Athletic Department acted as hosts to the following events:

1. New Mexico High School Track Championships
2. New Mexico High School Golf Championships
3. New Mexico High School Tennis Championships
4. New Mexico High School Cross Country Championships
5. New Mexico High School Pentathlon Championships
6. New Mexico High School Decathlon Championships
7. New Mexico High School Activities Association Wrestling Clinic.
8. New Mexico High School Coaches Association Downtown Lions Coaching School and All-Star Basketball and Football games.
9. Annual Fall Tucker Golf Tournament

## II. Significant Plans and Recommendations during the Academic Year 1971-72.

We will be on Regional TV for two of our basketball games this coming season. We are also pleased that KGGM-TV will be carrying delayed TV on most of our home games and live TV on all out of town games. KOB, KGGM and KDEF will be carrying by radio all our football and basketball games, both home and away. With these three stations it is felt we will be reaching very adequately our many alumni who are interested in these programs.

We are hopeful that the football attendance will be such this season that we will have to begin definitely planning for expansion and increased seating at University Stadium.

Such a project would also include a major revision of the Press Box which at the present time is inadequate. Also, the possibility of adding 5,000 to 10,000 chair-back seats should be considered.

If such a project should appear to be feasible, it is felt that serious consideration at that time should be given to planning for an artificial type football field and possibly an artificial type track. Most of the major schools throughout the United States are building such fields and tracks and it is felt that eventually money would be saved and this would place us in a better position as far as scheduling more major teams in both football and track.

#### III. Outside Professional Activities of Staff Members:

Athletic Director - Pete McDavid

N.C.A.A. Committee on Committees

National Athletic Directors Association  
Policy Committee

National Association of Collegiate Directors  
of Athletics Executive Committee

Advisory Board of Arizona Sports Foundation  
(Fiesta Bowl)

#### IV. Appointments to Staff:

Dennis Hodges -----Freshman Basketball Coach

#### V. Separations from Staff:

Jimmy Johnston -----Freshman Basketball Coach

## REPORT OF THE OFFICE OF THE UNIVERSITY ARCHITECT

July 1, 1970 to June 30, 1971

Van Dorn Hooker, AIA, University Architect

The construction program continued at the University of New Mexico this year at about the same level as the past two years. Projects completed during the year included Ortega Hall; a building for the Department of Athletics; an addition to the Fine Arts Center; an addition to the Computing Center to house Data Processing; New Bratton Hall for the School of Law; remodelling the center part of Mesa Vista into offices, the Speech Building, the basement of the College of Education, and two buildings south of Central Avenue for the Technical Application Center and the Tamarind Institute. They totaled \$ 5,941,207 project cost; \$4,998,973 construction cost.

When the previous fiscal year ended there was \$ 4,365,195 worth of buildings under construction. On June 30, 1971 projects totaling \$ 3,374,643 were in various stages of completion. There were several buildings which were ready to be let to bid in the near future, and projects totaling \$20 million were being planned or programmed.

During this year there was considerable effort expended in developing plans for the north, central and south campuses which will be put into effect in the near future. A plan for the Research Park was developed, a study for a pay parking system was instituted, engineering designs were made for roads and utilities on the north campus, and several landscape plans were underway on the central campus.

## BUILDINGS COMPLETED DURING THE YEAR

### 1. Ortega Hall (Faculty Office-Classroom Building), UNM Project No. 640

Bids were opened for this project on May 20, 1970, and the building was accepted on June 30, 1971.

This building is located at the northwest corner of the old Zimmerman Football Field. The Stadium building was removed some eight months prior to the start of construction. It is a four story building with the first floor at existing ground level. Audio-visual classrooms, language laboratories and main control rooms are on the ground floor. The second floor level has a number of general classrooms which are entered directly from an exterior walkway thus eliminating interior corridors. The third and fourth level consist of faculty offices, conference rooms and administrative offices for the departments of Modern Language and Political Science. The Dean of the College of Arts and Sciences will be in this building.

The contract amount for this project was \$1,398,455.

Architect:	Ferguson, Stevens, Mallory & Pearl
Structural Engineer:	James MacCornack & Associates
Mechanical Engineer:	Lyon Engineering
Electrical Engineer:	Uhl and Lopez
General Contractor:	K. L. House Construction Co.

### 2. New Bratton Hall, UNM Project No. 636

Bids were opened for this project on September 30, 1969, and it was completed on February 1, 1971.

This building provides facilities for the School of Law. It is located on Stanford Blvd., N.E. about two blocks north of the Basic Medical Sciences Building. The 63,000 gross square feet of area which this facility provides for the School of Law, through a unique design, has five different levels in a building that is essentially two stories in height. A large concourse area

on the main level is carpeted, with a border of brick. A circular moot court is in the center of the concourse. The office for the Dean and the other administrative offices are off the concourse to the east. On the west are two large arena-type classrooms with sloping floors and a third, smaller classroom. The faculty offices are on two levels. The library is also on two levels, with spacious provisions for reading area, stacks, and study carrels. A glass library wall faces northeast toward the Sandia Mountains and provides a spectacular vista.

The contract for this project was \$1,719,393.

Architect:	George Wright and Associates
Structural Engineers:	Howard Cottrell
Mechanical Engineers:	Bridgers and Paxton
Electrical Engineers:	Engineering, Inc.
General Contractor:	Bradbury and Stamm Construction Co.

3. 1969 Computing Center Addition, UNM Project No. 743

Bids were opened for this project on January 30, 1970. The contract completion date was November 16, 1970.

This is a two level addition south of the present building with the lower level at the existing grade of the parking lot to the west, and the second level connected to the main floor of the present research building. The lower level provides space for the computer and its auxiliary equipment including storage and offices. The second level has offices for programmers and staff of the Data Processing Center.

The contract amount for this project was \$322,920.

Architect:	William R. Buckley
Structural Engineer:	Fred J. Fricke
Mechanical Engineer:	Bridgers and Paxton
Electrical Engineer:	Carl R. Albach
General Contractor:	C. W. Murphey

4. Fine Arts Center Addition, UNM Project No. 080

Bids were opened for this project on March 24, 1970 and the project was completed on December 14, 1970.

This addition, on the west side of the Music Building, includes a new loading dock and a work storage area for the Fine Arts Museum, a Visual Arts laboratory, classrooms, additional reading rooms, book stacks and slide collection space for the Fine Arts Library. A few faculty offices are also included.

The construction contract amount was \$223,438.

Architect:	William R. Buckley
Structural Engineer:	Fred J. Fricke
Mechanical Engineer:	Bridgers and Paxton
Electrical Engineer:	Carl R. Albach
General Contractor:	C. W. Murphey

5. Building for the Department of Athletics, UNM Project 626

Bids were opened for this project on January 13, 1970 and the project was completed on December 14, 1970.

This building is located on the South Campus immediately south of Zimmerman Field. Upon completion of this facility most of the intercollegiate athletic functions were removed from the Central Campus. This building provides team rooms and other facilities for football, baseball, and track; the director of athletics and his staff; all the intercollegiate coaches; and the ticket sales office.

The contract amount for this project was \$650,990.

Architect:	Joe Boehning
Structural Engineer:	Cottrell, Vaughn and Associates
Mechanical Engineer:	Bridgers and Paxton
Electrical Engineer:	Uhl and Lopez
General Contractor:	Nation-Payne

6. Tamarind Institute, UNM Project No. 240

Bids were opened for this project on June 24, 1970 and construction was completed on September 14, 1970.

This project involved the remodeling of two store buildings, purchased by the University, located at 108 Cornell Drive, S.E. which were leased to the Tamarind Institute, a school of lithography, recently moved to Albuquerque from Los Angeles.

The contract amount for this project was \$49,999.

Architect:	Long and Waters
General Contractor:	C. W. Murphey Construction Co.

7. 2500 Central, S.E., UNM Project No. 230

Bids were opened for this project on July 23, 1970 and construction was completed on October 13, 1970.

This project involved the remodeling of the old IBM building, purchased by the University, into space for the Technical Application Center.

The contract amount for this project was \$28,488.

Architect:	Environmental Collaborative
General Contractor:	John R. Lavis

8. Mesa Vista Alterations, Phase I, UNM Project No. 091

Bids were opened for this project on August 25, 1970 and construction was completed June 28, 1971.

This project consisted of remodeling the center section of Mesa Vista into office space for several departments.

The contract amount for this project was \$494,900.

Architect:	Lawrence A. Garcia
Mechanical Engineer:	Lyon Engineering
Electrical Engineer:	W. Dean Powell
General Contractor:	R. L. Feight, Inc.



9. Speech Building Alterations, UNM Project No. 093

Bids were opened for this project on March 3, 1971 and construction was completed on June 30, 1971.

This project consisted of the remodeling of the space vacated by KNME into additional space for the Speech Department.

The contract amount for this project was \$31,287.

Architect:	Crawford + Oravec
General Contractor:	C. W. Murphey Construction Co.

PROJECTS BEGUN DURING THE FISCAL YEAR

1. Psychology Building, UNM Project No. 622

Bids were opened for this project on June 15, 1971 with construction due to be completed in August of 1972.

The site for the building is at the intersection of Terrace Blvd. and Redondo Drive, west of the Biology Building. It will house the department of Psychology, its faculty, research programs and instructional laboratories.

The contract amount for this project is \$1,759,345.

Architect:	Flatow, Moore, Bryan & Fairburn
Mechanical Engineer:	Bridgers and Paxton
Electrical Engineer:	Uhl and Lopez
General Contractor:	Bradbury and Stamm Construction Co.

2. Physics Laboratories and Lecture Hall, UNM Project No. 050

Bids were opened for this project on June 15, 1971 with construction due to be completed in August of 1972.

This building will be located between the existing Farris Engineering Center and the new Psychology Building. The structure will be underground and consist of eight Physics Laboratories, a shop area and storage space as

well as some facilities for graduate assistants. Above grade there will be a 300-seat lecture hall and preparation rooms.

The contract amount for this project is \$800,269.

Architect:	Pacheco and Graham
Structural Engineer:	Robert Krause
Mechanical Engineer:	Allison Engineering
Electrical Engineer:	Donald S. Fowler
General Contractor:	Bradbury and Stamm Construction Co.

3. Law Building Alterations, UNM Project No. 647

Bids were opened for this project on April 27, 1971 with construction due to be completed in October, 1971.

This building is being remodeled to provide space for the departments of Sociology and Economics.

The contract amount for this project is \$156,637.

Architect:	George Wright and Associates
Mechanical Engineer:	Allison Engineering
Electrical Engineer:	Ralph W. Tapy
General Contractor:	Jack B. Henderson

4. A/C Mitchell and Bandelier Halls, UNM Project No. 200

Bids were opened for this project on April 20, 1971 with construction to be completed August 15, 1971.

This project consists of air conditioning both Mitchell and Bandelier Halls and of bringing the buildings into conformance with the requirements of the State Fire Marshal and the Life Safety Code. The project is due to be completed before the fall semester begins.

The contract amount for this project is: \$188,600 for Mitchell Hall  
\$128,990 for Bandelier Hall.

Engineers:	Bridgers and Paxton
General Contractors:	Pruitt Sheet Metal (Mitchell Hall) Bradbury & Stamm (Bandelier Hall)

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5. Geology Building Addition, UNM Project No. 649

Bids were opened for this project on May 18, 1971.

This project consists of remodeling the west half of the existing third floor, the addition of a complete third floor to the present north wing, and the air conditioning of the entire building. The major portion of the space provided will be for graduate and research work.

The contract amount for this project is \$541,232.

Architect:	William R. Buckley
Structural Engineer:	Fred J. Fricke
Mechanical Engineer:	Bridgers and Paxton
Electrical Engineer:	Carl R. Albach
General Contractor:	Bill Stuckman Construction, Inc.

PROJECTS IN THE PLANNING STAGE

1. Drama Building, UNM Project No. 612

This project is a major addition to the Fine Arts Center and will be located west of Popejoy Hall. It will provide space for the Drama Department which is currently housed in several locations on campus. The building will include the new Rodey Theatre, an experimental theatre, various shops, seminars and laboratories.

The estimated project cost is \$2,495,000

Architect:	William R. Buckley
------------	--------------------

2. Johnson Gym Addition, UNM Project No. 619

The addition, to house an Olympic-size swimming pool, a hydro-therapy pool, offices and equipment rooms is located on the north side of Johnson Gymnasium with connections to the existing building. Existing locker and restroom facilities in the Johnson Gymnasium will be used in conjunction with this pool. The site is walled and landscaped. This project includes

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some alterations to spaces in Johnson Gym.

The estimated project cost is \$1,110,000.

Architect:

Buckley-Merker-Luna, joint venture

3. Anthropology Building Addition, UNM Project No. 648

An addition on the south side of the present building will provide additional museum space, storage, work rooms, faculty offices and laboratories for the Department of Anthropology. Some remodeling will be done in the existing building. National Science Foundation is participating in the cost.

Estimated project cost is \$1,000,000.

Architect:

McHugh and Kidder

4. Mesa Vista Alterations, Phase 2, UNM Project No. 092

This project consists of the remodeling of the south wing into office space for the Placement Center, Testing and Counseling and various other University departments. Included in the project will be the air conditioning and re-roofing of this wing.

The estimated project cost is \$340,000.

Architect:

Lawrence A. Garcia

5. Physician Augmentation Program, Phase 1, UNM Project No. 181

This first phase of a three-phase program will remodel basement spaces in the Basic Medical Sciences building. It is a Federally-funded program to provide for increases in enrollment.

The estimated project cost is \$150,000.

Architect:

Wendell/Varsa

6. North Campus Chilled Water Plant, UNM Project No. 210

This project is a chiller station located on the North Campus to provide chilled water for the North Campus and the north part of Central Campus.

The estimated project cost is \$800,450.

Engineers: Bridgers and Paxton

7. North Campus Warehouse, UNM Project No. 220

This warehouse is planned to house the collections of the Department of Anthropology which will have to move when their present storage space is pre-empted for the National Park Service, Chaco Canyon Project. Space will also be provided for use by the Physics Department and Zimmerman Library.

The estimated project cost is \$90,000.

Architect: William W. Ellison

8. Cooling Tower Cells, UNM Project No. 240

These cooling towers will be located on Central Campus by the Ford Utility Center and will replace the existing units.

The estimated project cost is \$300,000.

Engineers: Bridgers and Paxton

9. The Plaza, Phase I, UNM Project No. 261

The first phase of this landscaping project includes the area bounded by Cornell Mall on the east, Ortega Hall on the west, Zimmerman Library to the north and the Student Union to the south. It is, in effect, an extension to Cornell Mall running east-west. The first part of Phase I, the rough grading, demolition and utility work will go out to bid in late July. The second part, consisting of the concrete, brick and asphalt work, will be bid in the fall.

Landscape Architect: Eckbo, Dean, Austin & Williams  
Architect: Ferguson, Stevens, Mallory & Pearl

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This office is currently programming the following facilities: a building for Nursing-Pharmacy-Dental Hygiene; a Bookstore; a 900-seat Lecture Hall primarily for the Physical Sciences and Psychology Departments; and an Art Building with painting and sculpture studios.

1971  
Annual Report  
of the  
Computing Center  
Stoughton Bell, Director

During the fiscal year 1970-71, the Computing Center's staffing level remained relatively constant after the previous year's growth. Although there is a requirement for additional staff, budget and space considerations this year precluded such additions. Also the physical inventory of equipment changed with the release of the System 360/Model 40 Central Processing Unit to the University Data Processing Center and the addition of a second 2365 Core Storage Unit for the Model 67.

A major effort during the beginning of the year was the refinement and testing of the operating systems. This enabled the Center to provide a stable and well-tested operating system by the beginning of the academic year.

Attempts were also made during the year, as continuations of previous years' efforts, to determine future academic computing needs. These attempts took the form of meetings of small groups of users with the Center staff in an attempt to delineate and prioritize needs.

## Policy

Through the Computing Center the University provides computer resources to faculty, staff and students on an equal basis. Although charges are levied for use of the resources by sponsored or funded projects, no charges are made against departments or individual users for that use made in connection with course or non-sponsored work. An accounting is maintained of the resources used by all users and is available to the administration and all users.

In general, jobs making the least demand on the resources are run first and all Computing Center services are focused on helping users make optimum use of the facilities.

The staff is available to all segments of the University for advice and consultation, but it is not the policy of the University to assign Computing Center Staff to a project. Users do their own analysis, program design, coding and keypunching.

The following rates were in effect during FY 71:

- a) No charge for course work and non-sponsored research,
- b) \$220.00 per hour for funded research projects and other university (non-UNM) use,
- c) \$450.00 per hour for all other users.

The difference between the rates for b and c is related directly to contractual obligations between UNM and IBM. This contract says in brief that non-university work performed on a computing system which has been granted an



educational allowance shall be billed by IBM to the University (in addition to the regular monthly payment) at the full commercial rate of that system.

The current policy on adding low speed remote terminals is for the Center to acquire them for those departments that can individually fund them.

Computer Use Committee

The Computer Use Committee, a joint faculty and administrative committee charged to "study future needs... for all forms of computer services... and review and approve recommendations to the President in matters of future computer needs" met five times during the year.

The Committee members were as follows:

- R. Allen (Mathematics & Statistics)
- S. Bell, Ex Officio (Computing Center)
- A. Blumenfeld (Business & Administrative Sciences)
- J. Cooper (Education)
- J. Grillo (GSA Representative)
- T. Hogg (ASUNM Representative)
- R. Johnson (Civil Engineering) Chairman
- K. Kastella (Physiology)
- D. Kidd (Biology)
- D. King (Physics)
- C. Mattox (Art)
- J. Perovich (Vice President, Business & Finance)
- D. Peterson (Electrical Engineering)
- S. Smith (Vice President, Administration & Development)
- E. Spolsky (English)
- C. Travelstead (Vice President, Academic)

## Facilities

As of July 1, 1970 the Computing Center operated the IBM System 360/Model 67, consisting of the following equipment:

2067	Model 1 Central Processing Unit (leased)
2365	Core Storage (256K bytes, K=1024)(leased)
2860	Model 2 Selector Channel (leased)
2870	Multiplexor Channel (leased)
2314	Direct Access Storage Facility (4 modules)(leased)
2821	Unit Record Control (purchased)
2540	Cardreader/punch (purchased)
1403	Printer (purchased)
2841	Disk Controller (purchased)
2311	(5) Disk Drives (purchased)
2402)	(5) Tape Drives (one 7-track, four 9-track)(purchased)
2403)	(5) Tape Drives (one 7-track, four 9-track)(purchased)
2848	(3) Control Units (each control unit supports eight 2260 visual display units)(purchased)
2702	Transmission Control (can support a maximum of 31 terminals, 1050, 2741, or ASR 33/35)(leased)
2741	(3) Typewriter Terminals (used as virtual machine operator consoles)(leased)
1050*	(3) Terminals with printers and/or cardreaders (leased)
2260*(24)	Display Terminals (purchased)
* (8)	Terminals (two 2741, two Typagraph, two TI, two ASR/33)(5 leased, 3 purchased)
*(10)	Keypunches (8 leased, 2 purchased)
083*	Sorter (purchased)
(1)	Computer Industries 30" plotter (MTD-345)(purchased)
1620*	Computer (purchased)
407*	Accounting machine (purchased)

### Equipment acquisitions during the year:

July 1970 - Additional Core Storage Unit (256K bytes)(leased) and four additional modules added to 2314 (leased)

Dec. 1970 - Additional single disk drive (2311)(purchased)

Feb. 1971 - 029 Keypunch (leased) Mathematics Department  
 - 029 Keypunch (leased) and 1050 System transferred from Los Alamos Graduate Center to College of Business and Administrative Sciences

May 1971 - 029 Keypunch (leased) College of Education

\*See Appendix A for the location of these items.

## Software

As of July 1, 1970 the following major software was available to the Computing Center users:

### OS Release 18.6

FORTRAN IV levels G and H,  
Cobol F,  
PL/I,  
Assembler F,  
RPG,  
BMD, CSMP, ECAP, GPSS, MPS, ICES, COBOLXREF,  
KWIC, FORMAT, PLOT subroutines

### RAX Version 4.2 (highly modified)

FORTRAN IV level D  
Basic Assembler  
WATFOR  
SSP  
Conversational Statistics

## Highlights of Systems Software Changes July 1, 1970 to June 30, 1971

September 1970	<p>CP-67 version 2.0 is implemented to allow concurrent processing of RAX and OS.</p> <p>LOADER is implemented under OS to decrease job execution time.</p> <p>INDEX is implemented under OS to aid FORTRAN users in debugging their programs.</p> <p>TIDY is implemented under OS to aid FORTRAN users in their source deck maintenance.</p> <p>SCRIPT, a text processing program, is implemented under RAX.</p>
December 1970	<p>CP-67 Version 3.0 is implemented.</p>
May 1971	<p>ANS Cobol is implemented under OS.</p> <p>Language Conversion Program to assist users in converting from Cobol F to ANS Cobol is implemented.</p>

Staff

Full time staff as of June 30, 1971, including additions and separations is as follows:

<u>Name</u>	<u>Title</u>	<u>Hired</u>	<u>Separated</u>
<u>Administrative</u>			
Bell, Stoughton	Director	9/66	
Jansen, Marcia	Secretary	2/70	
Moynihan, Michelle	Secretary	2/69	
Wolf, Gertrude	Records Clerk	9/69	
<u>Applications Group</u>			
McMahan, W. H.	Manager, Applications Group*	7/69	
Cox, Patricia	Applications Programmer	5/70	
Fitzer, Paul	Applications Programmer	4/70	
Friedenbach, Kenneth	Applications Programmer	8/70	
Speechly, Betty	Applications Programmer	6/67	
Wheststone, Anner	Keypunch Operator	3/70	
Whitford, Cheryl	Applications Programmer	12/67	
<u>Operations Group</u>			
Aragon, J. D.	Manager, Operations Group*	8/69	
Beauchamp, Roger	Computer Operator	7/70	
Howard, Eldon	Computer Operator	2/69	3/71
Kirkwood, Billy	Shift Supervisor	2/62	
McCharen, Joe	Computer Operator	3/71	
Molina, Carlos	Computer Operator	1/68	
Paton, John	Computer Operator	11/69	8/70
Paul, Phyllis	Computer Operator	9/69	7/70
Specter, Christopher	Computer Operator	12/69	
Trimble, Robert	Computer Operator	2/69	
<u>Systems Group</u>			
McDonald, Rufe J.	Manager, Systems Group*	9/67	
Dowe, James	Systems Programmer	10/69	
Fisher, Stephen	Systems Programmer	3/69	
Gatchell, Douglas	Systems Programmer	4/70	
Iden, James	Systems Programmer	6/69	
Pettit, R. G.	Systems Programmer	7/69	

\*Effective October, 1970

## Services

Among the services provided to Computing Center users as of July 1, 1970 were the following:

- Consultation to users who were experiencing difficulties in accomplishing the goals of their programming efforts;
- Distribution of reference manuals for University users (other than students);
- Maintenance for all users of a document reference room that contains both UNMCC equipment-specific documents and documents of general interest in the computing field;
- Preparation and distribution of a monthly newsletter.

During the year, consultation services were expanded to include more hours of the day and to provide more emphasis on the provision of this service to student users; the document reference room hours of operation were extended; non-credit FORTRAN "short courses" were held; users' meetings (referred to as "grumble-ins") were held to facilitate user-staff communications and a beginning was made on redocumenting the series of routines used for the plotter.

The Computing Center provides a terminal loan service to user departments requesting these devices for short periods of time. It is felt that this "try before buy" approach to terminal use helped users decide which kind of terminal they felt they would like to see added.

### Use of Facilities

As previously mentioned, differential rates for use of computing facilities are in effect. The manner in which the rates were established is as follows:

The cost of computing resource hours is calculated by dividing the total budget of the Center by the projected number of accountable hours. These accountable hours include all work done on the machine whether sponsored or unsponsored. The budget of the Center includes the charges for the equipment with its educational allowance from IBM. That work which is not performed for UNM but rather for customers who seek the use of UNM's facilities because of a local lack of equivalent resources is charged at a higher rate as mentioned at the bottom of page 2. Currently the commercial rate is 204% of the UNM rate.

The following pages summarize the usage for the year. The "Other" category includes Computing Center staff work, non-academic departments, high school students under the direction of faculty members, Computer Science Club, and commercial users.

06/20/71

UNIVERSITY OF NEW MEXICO  
COMPUTING CENTER

REPORT ON COMPUTER USE FOR  
ALL USERS OF IBM S360 MOD 67  
FOR THE PERIOD  
MAY 16, 1971 THROUGH JUNE 15, 1971

DEPARTMENT	NUMBER OF RUNS	TIME (HOURS) THIS PERIOD	TIME (HOURS) SINCE JULY 1, 1970
<b>ARTS &amp; SCIENCES</b>			
INSTRUCTION	3,482	78.5367	492.0987
UNSPON. RESEARCH	793	28.5657	313.3610
SPONSORED RESEARCH	332	13.4783	88.6185
TOTAL	4,607	120.5807	894.0782
<b>BUSINESS ADMINISTRATION</b>			
INSTRUCTION	1,640	22.0490	94.4583
UNSPON. RESEARCH	58	1.1343	10.7401
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	1,698	23.1833	105.1984
<b>EDUCATION</b>			
INSTRUCTION	717	12.2698	67.3062
UNSPON. RESEARCH	228	32.5970	187.9166
SPONSORED RESEARCH	42	.5018	5.1328
TOTAL	987	45.3686	260.3556
<b>ENGINEERING</b>			
INSTRUCTION	4,012	106.9093	604.3912
UNSPON. RESEARCH	169	6.5925	52.9696
SPONSORED RESEARCH	123	4.8353	27.4340
TOTAL	4,304	118.3871	684.7948
<b>FINE ARTS</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	68	2.4363	6.1501
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	68	2.4863	6.1501
<b>LAW</b>			
INSTRUCTION	1	.0169	.0439
UNSPON. RESEARCH	0	.0000	.2745
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	1	.0169	.3184



DEPARTMENT	NUMBER OF RUNS	TIME (HOURS) THIS PERIOD	TIME (HOURS) SINCE JULY 1, 1970
<b>MEDICINE</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	0	.0000	.0000
SPONSORED RESEARCH	94	2.6753	23.3269
TOTAL	94	2.6753	23.3269
<b>NURSING</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	0	.0000	.0000
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	0	.0000	.0000
<b>PHARMACY</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	0	.0000	.0000
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	0	.0000	.0000
<b>UNIVERSITY COLLEGE</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	9	.0732	.4996
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	9	.0732	.4996
<b>MILITARY SCIENCES</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	0	.0000	.0000
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	0	.0000	.0000
<b>GENERAL STUDIES</b>			
INSTRUCTION	0	.0000	.0000
UNSPON. RESEARCH	0	.0000	.0000
SPONSORED RESEARCH	0	.0000	.0000
TOTAL	0	.0000	.0000
<b>OTHER</b>			
INSTRUCTION	132	3.3012	18.8111
UNSPON. RESEARCH	901	40.9839	289.5483
SPONSORED RESEARCH	263	9.7362	140.6884
SYSTEMS	1,564	35.9296	314.5437
TOTAL	2,860	89.9509	763.5915
<b>TOTALS</b>			
INSTRUCTION	9,984	223.0829	1277.1094
UNSPON. RESEARCH	2,226	112.4329	861.4598
SPONSORED RESEARCH	854	31.2769	285.2006
SYSTEMS	1,564	35.9296	314.5437
GRAND TOTALS	14,628	402.7223	2738.3135

## APPENDIX A

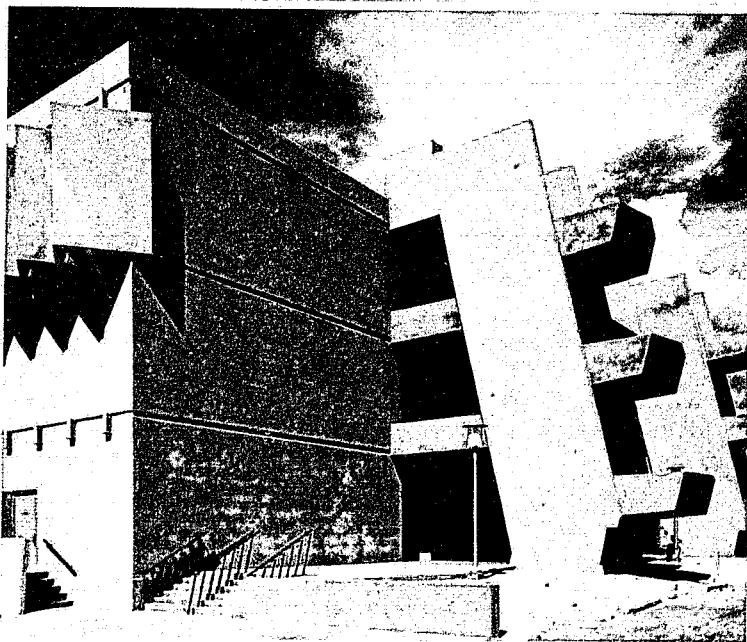
## Location of Remote Terminal

<u>Terminal Type</u>	<u>Number</u>	<u>Location</u>
IBM 2260	24	Mathematics Computation Laboratory
IBM 1050	2	Los Alamos Scientific Laboratory
IBM 1050	1	Dept. of Physics
IBM 2741	1	Dept. of Economics
IBM 2741	1	Computing Center
Typagraph	1	Dept. of Mathematics
Typagraph	1	Dept. of Anthropology
Texas Instrument	1	Computing Center
Texas Instrument	1	Medical School, Dept. of Physiology
ITT ASR 33	1	Dept. of Chemistry
ITT ASR 33	1	Computing Center

## Location of Keypunches

<u>Type</u>	<u>Number</u>	<u>Location</u>
029	3	Computing Center - staff use
026	1	Computing Center - staff use
026	1	Computing Center - public use
029	5	Computing Center - public use
083 Sorter		Computing Center - public use
1620 Computer 407		Department of Electrical Engineering

THE UNIVERSITY OF NEW MEXICO  
ALUMNUS



GREATER UNM FUND 1970-71



The Greater UNM Fund  
Board of Directors

Glenn L. Emmons, '19  
Chairman

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President Alumni Assn.

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Mrs. Neil Foley, '32

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Academic Vice President

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Vice President for Business and Finance

Jack Sheehan  
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Bill Weeks  
Director of Development

Gwinn "Bub" Henry, '50  
Director of Alumni Relations

#### Greater UNM Fund 1970/71

The UNM Alumnus is published bi-monthly, six times a year between September and July, by The University of New Mexico Alumni Association and sent free to all former students of record. Editorial and business office, Suite 200, New Mexico Union, University of New Mexico, Albuquerque 87106. Second class postage paid at Albuquerque, New Mexico.

Member, American Alumni Council  
Vol. 44, No. 2, September 1971

## THE GREATER UNM FUND

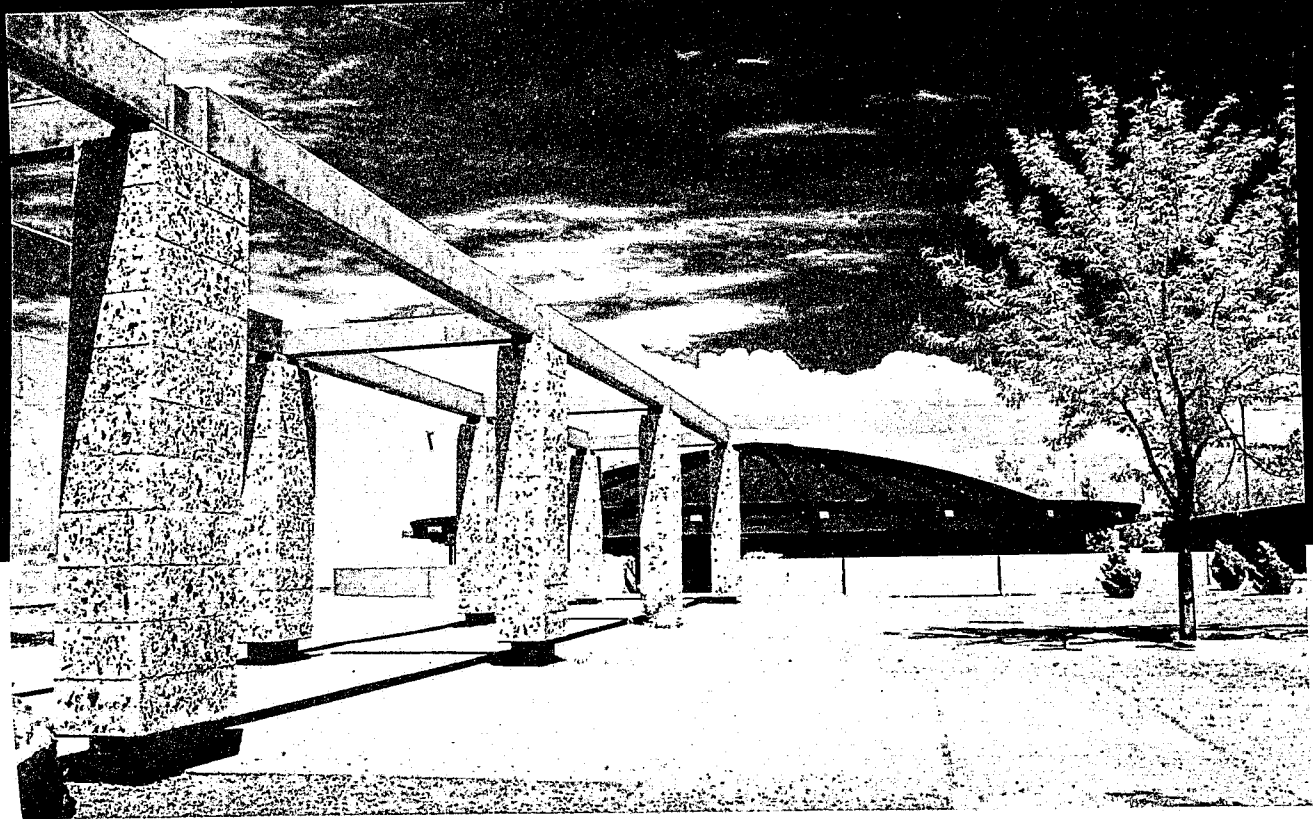
All private support for The University of New Mexico is channelled through the Greater UNM Fund. The Fund was established in the Development Office under the auspices of the Alumni Association in 1962 to provide a means of annual giving by alumni, friends, business corporations, clubs and organizations, foundations and estates. The annual contribution of cash by a large number of people provides a Margin for Excellence for the University, making possible features which are essential to educational leadership and distinction, but which are beyond the financial responsibility of the state. Donors may stipulate the purpose for which their gift is to be used, but the most valuable gifts are those which are unrestricted. They can be used where the need is greatest in the judgment of the allocations committee of alumni, faculty and administrators. The University also welcomes gifts in kind, and donors of such gifts are included in this report, but no cash value has been placed on the gifts. The figures are actual dollars received.

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*Picture, overleaf:*

*The University of New Mexico Educational Complex Kiva as seen through the colonnades.*



THE UNIVERSITY OF NEW MEXICO  
Albuquerque

Office of the President

September 1, 1971

Dear Alumni and Friends,

I wish to convey to you the sincere appreciation of the entire University community for your support during the past fiscal year. I also express the hope that such tangible evidence of your interest through the Greater UNM Fund will continue.

During these times of financial strain, the University must rely on its Alumni and friends to maintain our present position as a leading educational and cultural center. This institution is a better University for the help of the men, the women, the business firms and institutions who have donated so generously to UNM this year. Rising costs and restrictive budgets make your financial gifts even more important since the "margin of excellence" they provide is necessary if we are to remain among the better state universities.

I extend to each of you a cordial invitation to visit the campus, so that you may see at first hand some of the benefits derived from your support.

Sincerely,  
Ferrel Heady, President

To: Alumni and Friends

The Department of Development of the University of New Mexico encourages private support to UNM and welcomes opportunities to assist all those who wish to make gifts whether in the form of cash, securities, real property or gifts in kind. Gifts by bequest are sought. We will gladly work with you and your attorney to properly arrange bequests or trusts for the benefit of UNM.

We acknowledge faculty and administrative cooperation in preparing this report which we believe to be complete and accurate. We wish to thank the Chairman of the Greater UNM Fund, Mr. Glenn L. Emmons, the Board of Directors of the Fund, the members of the Allocations Committee and the officers, directors and members of the Alumni Association for their guidance and their assistance. Most particularly, we wish to thank all those who, by their contributions, recognized the great need for private support of the University of New Mexico.

Bill Weeks  
Director of Development

## MEMORIALS

During 1970-71, memorial gifts were made in honor of the following distinguished alumni, faculty and friends of The University of New Mexico. In several cases, the memorial is a scholarship endowment, or the pledge of an annual scholarship. Accomplishments of the thousands of students who benefit from such support reflect well upon UNM and serve as a challenge to all students to strive for the greatest academic levels attainable. If you are interested in establishing a scholarship or student loan fund, or know of someone who is in a position to do so, the Development Office will be glad to assist you.

Robert Abbott	A. L. Gausewitz	Mary Love McKinnon
Frances Allen	Anna Gay	Louis A. McRae
Marylin Angell	Jerome B. Gray	George Mitchell
Sam Angell	Robert F. Gray	Louise Moulton
Charles F. Anthony	Clara L. Grotta	Harvey C. Noack
John Baker	John Hart	Helen G. Noack
Bessie Balaban	Simon Herzstein	William H. Oliver
Homer W. Baldwin	Chuck Hill	George W. Oyster
Raymond Beardsley	Eleanor S. Hockenbury	William J. Parish
Louis C. Becker	Ardyce Hof	Josephine S. Parsons
Susan Biddle	Seth Hofheins	John "Jack" Patterson
Eleanor Bratton	K. L. House	Grace Pepper
Miles Britelle, Sr.	Mildred House	Nita Prince
Ida Brock	Frank Hubbell	Edmund I. Rady
George S. Bryan	Fannie Lee Hurst	H. R. Mick Ressler
Grace Buchanan	Helen Andre Ives	Lael M. Richards
Calvin Buckles	Julia Louise Ives	J. J. Riebsomer
Miriam P. Burkhardt	Roy Johnson	Col. Frederick H. Rock
John A. Caffrey	Viola H. Johnson	Damon Runyan
Dovie Mae Calkins	Gloria Keating	Ruth Russell
Mrs. Earl M. Carnes	Dr. Walter Keller	George St. Clair
W. O. Connor, M.D.	Henry Kempenich	Vivienne H. Seis
Daniel E. Cordova, M.D.	John D. Kinzer, M.D.	Carl Seligman
Harriet Cosgrove	Ann Lanza	Mrs. Dan Simpson
Carl Cramer	Robert H. Lawrence, Jr.	Charles P. Snyder
Larry Crownover	Carol K. Lightner	A. B. Stewart
Josephine L. Davidson	Karl Kilby Long	William H. Sufferin
Charlotte Lommis Devendorf	Bernard Maier	Ruth Taichert
John D'Huy	Joan Maier	Eugene F. Van Epps
Paul Doss	Maurice M. Maisel	Brian Webber
Ralph Douglass	Rosalie Marcus	George "Blanco" White
Will Faherty	Zelma Martinez	Adele Ydens
R. E. Forbis, M.D.		



### METHODS OF GIVING

During the year, donors used a variety of ways of making gifts to the University. The particular method selected by the donor depended upon his own motivation, financial circumstances and tax position.

All contributions to the University are deductible for income tax purposes, so the donor often finds that it costs less than he thinks to make a gift. It has long been the policy of the Government to strengthen our educational institutions by making special tax concessions to donors who offer financial support.

### CASH

Gifts of cash from current income are the most common and simplest form of gift. The net tax effect of cash gifts depends primarily on the tax bracket of the donor. Many donors report the net cost of their gifts are substantially lower than the face value of their gifts due to their tax situation.

### SECURITIES

Many persons give securities in lieu of cash. Such donors are entitled to a tax deduction in the amount of the fair market value of the stock at the date of donation, subject to certain limitations. In addition, the donors of securities are not obligated to pay capital gains tax where the stock has appreciated in value since the date of acquisition.

### REAL PROPERTY

The tax effects of gifts of real property to the donor are the same as mentioned above in the case of securities. Where real property is given to the University during the year, the University either holds the property and uses it for educational purposes wherever possible, converts the property to cash, or manages the property as an endowment asset.

### LIFE INSURANCE

Persons making gifts of life insurance to the University merely take out an insurance policy on their life, irrevocably naming the University of New Mexico as beneficiary and owner under the policy. These donors are entitled to a tax deduction in the amount of the annual premium and are credited with an annual gift in the amount of the premium.

### GIFTS BY BEQUEST

These donors had made specific bequests in their wills to the University of New Mexico. Such bequests are exempt from federal estate taxes.

### GIFTS IN KIND

These gifts come mainly in the form of books, collections, paintings or equipment. The library, in particular, is the principal beneficiary of this type of gift. Donors, of course, are entitled to a tax deduction in the amount of the fair market value of the property at the date of the gift, subject to the limitations previously mentioned.

## WHEN 1=2

Your gift to UNM can be matched if the company for which you work maintains a matching gift program as part of its over-all programs of support for higher education.

You are the reason for these matching gift programs. Your employer is offering support to UNM in recognition of the contribution YOU as an educated person are making to your company.

Although programs differ from company to company, the idea behind matching gifts is simple. When you make a contribution you fill in a short form provided by your employer, who matches the gift by sending an equal amount to UNM.

Listed here are the firms and business foundations that added to the 1969 Alumni Fund by matching the gifts of their employee-donors.

## 1970-71 MATCHING GIFTS

Allis Chalmers Foundation, Inc.	International Business Machines, Inc.
Bank of America Foundation	International Paper Company Foundation
Becton, Dickinson Foundation	John Hancock Mutual Life Insurance Company
Cities Service Foundation	Lummus Company
Continental Can, Inc.	McGraw-Hill, Inc.
General Electric Foundation	New England Mutual Life Insurance Company
Getty Oil Company	Peat, Marwick, Mitchell Foundation
Gulf Oil Foundation	Scott Paper Company Foundation
Hewlett-Packard Company	Tektronix Foundation
Hughes Aircraft Company	Time, Inc.
Humble Oil Education Foundation	Westinghouse Educational Foundation

## UNRESTRICTED GIFTS

Unrestricted gifts to the Greater UNM Fund continue to be put to good use. Unrestricted funds are used primarily to finance pilot projects and to purchase equipment and gallery and museum acquisitions.

Normally, such monies are not committed to on-going projects which would require continuing financial support from the Fund.

Unrestricted gifts, in many respects, provide funding for innovative and experimental undertakings for which tax appropriated funds are insufficient or unbudgeted. The University of New Mexico has a great need for such gifts so that finances may be available to satisfy—at least in part—the most urgent needs as determined by the greater UNM Fund's Allocations Committee made up of alumni, faculty and administrators.

## ALUMNI WHO GAVE IN 1970-71

Following are the names of loyal alumni who were contributors to the Greater UNM Fund during the past year. On succeeding pages are the names of friends, organizations, businesses and foundations who joined alumni in support of the University's "margin of excellence." Not all the gifts were money. Many were library materials, museum materials, works of art, or real estate. All were contributions toward a greater University of New Mexico.

The numbers before the donor's name indicate the number of years in which he had made a gift to UNM. Names without numbers made their first gift this year. Assembling the names is an immense task and one in which errors sometimes occur in spite of all care. If you note any error, please let us know. We sincerely regret misspellings and omissions.

## CLASSES OF 1896-1919

\$371.00

- 2 Allen, Mabel Anderson, Prep
- 3 Anson, Anna Margaret '12
- 7 Black, Bruce A. '12
- 5 Brorein, Carl D. '17
- 5 Brorein, Ethel Kieke '17
- 5 Butler, George L. '17
- 4 Clarke, Charles R. '18
- 9 Daus, Daphne Fortney '17
- 6 Doherty, Helen Latamore '17
- 4 Doran, Edward W. '14
- 4 Genuit, Alberta Hawthorne '19
- 6 Gladding, Raymond D. '12
- 7 Goldstein, Irving, Prep
- 9 Gordon, Aurelia Michener '10
- 3 Kempenich, Henry, Prep
- 3 Lee, Floyd W. '17
- 8 Rogers, Clarence E. '09
- 8 Shuffelbarger, Frank D. '17
- Wait, James L. '19
- 2 White, Katherine Conway '19
- 8 Will, Eleanor Anderman '19



## CLASSES 1920-1929

\$2,734.50

- 3 Altkenhead, Paul W. '25
- Anonymous '26

- 7 Armstrong, Helen Lindsey '24
- Ball, Gladys Fay Jones '29
- 5 Barber, Charles H. '26
- 3 Barnhart, George C. '23
- 3 Blum, Margaret Hart '21
- 10 Brorein, Mary Catherine '20
- 2 Burt, Edwin, Jr. '22
- 5 Campa, Arthur L. '28
- 2 Carlisle, Myrtle Morgan '25
- 3 Chant, Elsie Ruth Dykes '23
- 10 Chant, Lloyd H. '26
- 2 Claude, Dean Lena Cecile '25
- 5 Colville, Pearl Burns '26
- 5 Creveling, Letitia Eells '28
- 6 Crosno, Maude D. '28
- 6 Culpepper, Ethelwyn Hart '27
- 6 Culpepper, Charles C. '21
- 6 Dolde, Walter J. '26
- 2 Dolzadelli, John P. '29
- 4 Doolittle, Rosalie Furry '27
- 4 Fitzgerald, Robert M. '28
- Foraker, Mary '26
- 6 Fricke, Frederick J. '29
- 5 Glassman, Nathan W. '28
- 2 Graham, Hugh J. '24
- 2 Grantham, Everett M. '23
- 4 Harris, Jackson E. J., M.D. '20
- 8 Heflin, Woodford A. '26
- 6 Hyder, Latif '25
- 2 Johnson, Roy W. '22
- Jordan, Joseph '21
- 8 Kohlhaas, Leona Raillard '28
- 2 Knudsen, Ethel G. Peterson '21
- 2 LaPine, Virginia McManus '28
- 6 Lewis, William G. '29

- 7 Lovitt, Lawrence E. '25
- 5 Martin, Wenonah Dixon '21
- 10 Mauger, Harry '29
- 8 McCaffrey, Margaret McCanna '20
- McDonald, Mary M. '29
- 7 McGowan, Gertrude '25
- 3 McKenzie, Madge Shepard '27
- 5 Mulcahy, Harold I. '27
- 5 Nusbaum, John B. '28
- 6 Pearce, Cullen T. '23
- Perkins, Geraldine M. DuBois '27
- 7 Phillips, Louis D. '25
- 8 Popejoy, Bess Kimball '29
- 9 Popejoy, Tom L. '25
- 4 Schafer, Howard R. '29
- Scott, Lois Davis '21
- 3 Simpson, Elizabeth Parkinson '28
- 8 Stephenson, Dorothy '22
- 7 Thomasset, Charles A. '25
- Vaughey, E. A. '29
- 5 Wagner, Frederick T. '23
- Warner, Estella Thaxton, M.D. '28
- 4 Watson, John T. '29
- Webb, Maude McIntyre '29
- Wigglesworth, Thomas E. '27
- 7 Wolking, Clifford G. '20



*Figures preceding names indicate number of years of participation in the UNM annual alumni giving program. Names without numbers are those of first time donors.*

**CLASS OF 1930****\$335.50**

- Anonymous
- Bisbee, Wallace A.
- 4 Botts, Robert
- 2 Coulter, Dorothy R.
- 2 Edes, Ruth M. Kay
- 4 Greiner, Alice M. Olson
- Holmes, Willard A.
- 7 Keleher, Julia Mary
- 5 McKenzie, Dr. Donald A.
- Mitchell, David B.
- Mitchell, Lela Goodart
- 8 Monical, Marlon Wiley
- 7 Osuna, Benjamin
- 6 Reidy, John A., M.D.
- 9 Reiter, Winifred Stamm
- 6 Stortz, Frank A., Jr.
- 7 Stuart, J. Raymond
- Whitmore, John E.

**CLASS OF 1931****\$1,018.00**

- 3 Ancona, Nina McGinnies
- 8 Carter, Rufus H., Jr.
- 6 Foley, Neil H.
- Leonard, Harry W., Jr.
- Leonard, Ina Kimbrough
- 6 Lewis, Romeo H., M.D.
- 6 Mapel, Cyrene Feree
- 10 Matteucci, Gino J.
- McCraw, James L.
- Redle, Marion
- 4 Schupp, Ona E.
- 9 Thomas, Aurberry M.

**CLASS OF 1932****\$525.00**

- 5 Alexander, Mildred Botts
- 7 Allen, Fanny Wittwer
- 8 Cisco, Robert
- 6 Foley, Mary Mewborne
- 6 Mabry, Scott H.
- 5 McAtee, W. Peter
- 6 Montgomery, Eugene C.
- 2 Moses, Donald B.
- 4 Pilcher, Sara Hess
- 5 Quinn, Wesley M.
- Riordan, Frank B.
- 4 True, M. Austin
- 10 Wylie, Marshall J.

**CLASS OF 1933****\$172.00**

- 2 Allen, Fritz G.
- 6 Connally, Marguerite Williams

- 4 Devine, Paul J.
- 4 Graham, Warren Reno, Jr.
- 6 Hillier, Jane Colegrove
- 2 LaPine, Alfred W.
- 4 Lieberman, Joseph
- 10 Loken, Ralph
- 10 Phillips, Ava Roberts
- 4 Pilcher, John E.
- 7 Severns, Ralford R.
- 9 Stumph, Roy C.
- 8 Wells, Virginia Brannin

**CLASS OF 1934****\$256.50**

- 3 Berberich, J. William
- 8 Bushnell, Tom G.
- Button, Adella Lemke
- 7 Ellis, Helen Heacock
- Galaz, Alfredo C.
- Galles, Fern Livingston
- 4 Glaese, Eva Israel
- 3 Hurst, George A.
- 2 Redman, Bess Curry
- 4 Walton, Jack F.
- 6 Welsheimer, Edith L.
- Wylie, Claude B.

**CLASS OF 1935****\$550.00**

- 8 Adams, Helen Hogrefe
- Bisbee, Katherine Meeks
- Blue, Sarah Shortle
- 4 Creamer, Carlos M., Jr.
- 8 Dutton, Dr. Bertha P.
- 5 Eichhorn, Wilbur G.
- Falkenburg, Frank L.
- 8 Flekke, Marie
- Galles, Herbert L., Jr.
- Hays, Marie Jensen
- 5 Hurt, Robert K.
- 2 Joerns, Ida Pardue
- 2 Joerns, Jack O.
- 5 Keasler, Dr. Edwin S.
- 10 Malsel, Albert L., M.D.
- 5 Matteucci, Rolando J.
- 4 Page, Lillian Haynie
- 8 Person, Marian Clark
- 5 Redd, Cliff K.
- 7 Rogers, Guy L., Jr.
- 2 Rutledge, James L.
- 3 Schifani, Louis
- Thompson, Robert L.

- 2 Thornton, Catherine Chiles
- 3 Tansey, Charles M.
- 4 Waxler, James H.
- 8 Wells, William P.
- 8 With, Alex H.

**CLASS OF 1936****\$1,172.00**

- 6 Atkinson, William W.
- 8 Bachar, Dorothy Waldeck
- 4 Brannin, William D.
- 8 Childre, Mary Madge
- 3 Crook, Donna Stein
- 4 Crook, Leonard T.
- 8 Dennard, William E., D.D.S.
- 4 Fifield, Myron F.
- Frank, Austin C.
- Gilbert, Miquela Apodaca
- 2 Gladding, James N.
- 8 Goldsworthy, Fred
- 8 Goldsworthy, Ruth Brock
- 4 Greiner, Bright E.
- Hays, Guyton B.
- 7 Hibben, Eleanor Brown
- 8 Hibben, Dr. Frank C.
- 5 Hoss, Russell
- Hunter, Harold V.
- 4 Johnson, Moneta Gunilla
- Lopez, Eleanor Marron
- Lopez, J. Joseph
- Olmstead, Virginia Langham
- 9 Pooler, Clay
- Pryor, Bodie C.
- 2 Pycha, Rudolph C.
- 3 Roehl, Joseph E.
- 4 Rutherford, George A.
- 9 Seigman, Randolph V., M.D.
- 5 Tackett, Martha Brownfield

**CLASS OF 1937****\$542.50**

- 7 Blueher, William A., D.D.S.
- 5 Campbell, Howard
- 6 Chavez, A. T., Jr.
- 4 Diana, Octavia Butler
- 5 Fife, Rowland W.
- 5 Hoss, Mary MacGregor
- 7 Johnson, Marvin J.
- 5 Keasler, Marion Smith
- 6 MacGregor, John C., Sr.
- 2 Milne, Sara Raynolds
- 8 Person, Robert T.
- Pillow, Braden
- 8 Riley, Perry D.
- 2 Rutledge, Elizabeth Iden
- 2 Sanchez, Maurice
- 7 Simms, John F., Jr.

4 Smith, James R.  
Sylvester, Howard E.  
7 Tackett, Paul

#### CLASS OF 1938 \$677.50

8 Brandenburg, Helen Zimmerman  
2 Chamberlin, Jean Dunlap  
3 Clement, Charles E., Jr.  
Collister, J. D.  
6 Creamer, John H.  
6 DeValk, Florence Shoup  
Hale, William F.  
10 Loy, Arthur E.  
Martin, Dr. Curtis W.  
2 McAtee, Evelyn Farber  
9 McDavids, Paul E.  
4 Page, Col. Gordon B.  
7 Ream, Ann McGuire  
2 Reidy, Judge Robert W.  
6 Sadler, Dr. James B.  
5 Sandoval, Thomas A.  
Snapp, Robert E.  
5 Spies, Hilda Florence  
4 Stowell, Harold W.  
Thompson, J. Leon  
8 Thorson, Margaret Crane  
4 Wood, William J.  
Yearout, Robert M.



#### CLASS OF 1939 \$2,536.00

Atwood, Elmer W.  
9 Baker, Bonnie Jourdan  
4 Bowman, Sam W., Jr.  
7 Brown, Clara Fluit  
4 Campbell, Jack M.  
Collister, Kathryn Huber  
5 Cox, Paul C.  
6 Creamer, Edith Hunter  
7 Cunico, Marlette Coulloudon  
5 Darrow, Robert J.  
2 Denton, Adah Shelton  
3 DuVal, Elisa  
5 Eagan, Kathryn Mabry  
9 Easley, Robert W.  
Ellison, William W.  
2 Eppich, Johnny W.  
Federici, William R.  
2 Franchini, Oreste J.

8 Gardner, Barney L.  
7 Hertzmark, Sidney S.  
6 Hix, Robert S.  
6 Horn, Calvin P.  
Kaiz, Robert B.  
6 Kelley, Ann Robertson  
2 Kohler, Max A.  
8 Levers, Mildred Stewart  
9 Loy, Henrietta Bebb  
9 McDavids, Inez Cox  
7 McKnight, Barbara Clark  
6 Olson, Jane V.  
8 Paulson, Frances Potter  
8 Paulson, Wilford D.  
9 Schifani, Emmanuel  
4 Shortle, James S., M.D.  
9 Sprull, Mabel Polk

#### CLASS OF 1940 \$1,075.00

Ashton, Marjorie Whetstone  
Baker, Joe B., Jr.  
5 Bellamah, Dale J.  
7 Black, William E.  
6 Burnett, Dorothy Mosher  
6 Burnett, Frank W.  
3 Charles, Ralph  
6 Johnson, Warren L.  
7 Jones, R. Franklin, Jr.  
9 MacGillivray, Finlay  
6 McManus, Judge John B., Jr.  
Schreiber, George  
5 Shields, Dr. Lora Mangum  
4 Silver, Caswell  
8 Spuhler, Dr. James N.  
9 Stumph, Kathleen Snyder  
Syme, Miriam Higbee  
Syme, Dr. Oscar M.  
6 Thompson, Charles B.  
Wilson, Joseph B.

#### CLASS OF 1941 \$465.00

Arens, Ralph W.  
5 Bailey, Alma Campbell  
5 Bailey, Herbert A., M.D.  
4 Blumenthal, Ernst H., Jr.  
5 Bramel, Miriam Griffin  
3 Bramlett, William  
6 Bratton, Judge Howard C.  
4 Davies, Ruth Williams  
7 Fellin, Octavia A.  
Gerheim, Dr. Earl B.  
Gerheim, Julia Fritz  
6 Horton, Col. Virginia A.  
3 Hynes, Jacqueline Dearing

4 Koulas, William G.  
7 Lukens, Maj. Josephine Y.  
3 McKeever, Robert B.  
7 Miller, Dennis N.  
Nanninga, Clara Morton  
2 Nanninga, Robert S.  
4 Perkins, Cyrus S.  
4 Perkins, Betty Burton  
8 Rogers, Cdr. Allen R.  
3 Salat, Lucia Denton  
8 Schulte, Eleanor Field  
8 Schulte, John W.  
7 Simms, Albert G., M.D.  
5 Simms, Barbara Young  
8 Skidmore, S. B.  
5 Summers, James L.  
5 Summers, Jean Laraway  
5 Toulouse, James R.  
3 Wager-Smith, Maj. Joseph D. W.  
2 Wells, Mary Retick



#### CLASS OF 1942 \$3,813.00

8 Bahr, Edwin W.  
7 Bluestein, Richard C.  
4 Blumenthal, Mary Worthen  
4 Clevenger, Marshall L., M.D.  
6 Edward, Leah  
10 Enarson, Audrey Pitt  
2 Gateley, William R.  
6 Guilford, Eleanor M.  
10 Halama, Lars E.  
9 Hitt, Charles M.  
5 Horn, Clara Fouts  
Hurt, Donald E.  
5 Jurgensen, Clifford R.  
3 King, The Hon. Bruce  
4 Klinghoffer, Melba Katz  
8 Luksich, John G.  
3 Lyon, Claude L., Jr.  
3 Lyon, Margaret Davidson  
2 Mahuron, Carol Johnson  
6 Maxwell, Dorothy Field  
2 May, Marvin C.  
7 McKnight, Daniel M.  
7 Ortiz, Charles R.  
3 Pettus, Roy B.  
Schotsch, Ernestine Alsud  
7 Stamm, Florence Bradbury  
7 Stamm, Robert J.  
9 Thompson, Maurice E.  
2 Wachtell, Charles, W.

### CLASS OF 1943

\$722.50

- Benedetti, Dr. David T.  
5 Bockelman, Mary Waggoner  
Boule, Earl  
10 Bush, Roberta Warren  
Cochran, Katherine Wilson  
5 DeKleven, Concha Ortiz y Pino  
8 Donaldson, Priscilla Vigil  
5 Groth, Marie Balling  
10 Harley, Joseph B.  
5 Lanier, Charles S.  
6 Loscalzo, Vincent J.  
4 MacNeely, Robert C.  
8 McClintock, Ross A.  
6 Mitchell, Dr. Merle  
Propps, Frances Clark  
3 Simms, David  
Strickland, Richard D.  
6 Sweetland, Richard N.  
Thompson, Phyllis Vidal  
Williams, Lois Trumble

### CLASS OF 1944

\$1,020.00

- 3 Ancona, Edward P.  
2 Cornish, Thomas G.  
8 Deshon, Nancy Kilborn  
7 Dorn, Ronald V., M.D.  
Griffith, Kean, Jr.  
6 Hagan, John C.  
2 Hayes, Helen Schooley  
3 Heck, Ricarda Small  
3 Hulick, Ray L.  
4 Maguire, Norman L.  
6 Marberry, Frank J.  
2 May, Virginia Minter  
3 McBride, Marie Trujillo  
8 McCanna, Peter F.  
8 Robinson, Paul W.  
4 Rosenthal, Dr. Harold L.  
2 Russell, Charles C.  
Sanchez, Tom, Jr.  
4 Smith, Alma Roughton  
6 Smith, Oscar L.  
6 Snider, James W.  
6 Strome, Thomas W.  
Strickland, Elizabeth Carpenter  
Whipple, Velma D.

### CLASS OF 1945

\$334.50

- 3 Anderson, Margaret Morrow  
7 Cheh, Jen C.  
2 Ely, Dan  
8 Frame, Roy A.

- 7 Frank, William F.  
Furnan, Catherine Jackson  
8 Halliburton, Jack  
5 Mahoney, Katherine Yearout  
Matthews, John S.  
3 McBride, Myrri W.  
6 McFall, Katharine Snapp  
7 Ortiz, Orlando G.  
8 Robb, Margaret Hight  
5 Shelton, Elizabeth Fagan  
Statler, Robert D.  
9 Strother, Patricia Sanford  
7 Weiss, John D.  
9 Williams, Rev. Henry L.



### CLASS OF 1946

\$373.50

- 8 Aguilar, Lorenzo H.  
7 Brown, Edith Pratt  
3 Cheuvront, Pauline M.  
4 Cornell, Murray J.  
5 Curtis, Charlemaud  
Frederick, Kurt  
Greene, William B.  
8 Hall, John R.  
2 Kinney, Diana Wolf  
7 Mertz, Gisa Newhaus  
6 Nelson, Rold L.  
Nygren, William H., Jr.  
9 Robb, John D., Jr.  
6 Rountree, Robert B.  
6 Tuoni, Gilbert M.  
Vath, Dennis L.

### CLASS OF 1947

\$803.00

- 5 Baker, Darrell F.  
8 Bloom, Dr. John P.  
Bradley, Bettie Kuykendall  
Culbertson, Constance Walter  
3 Daniels, Jack  
4 Daulton, H. Paul  
3 Daulton, Mary Marshall  
6 Eckert, Martin W.  
Ford, Mary Stream  
8 Gesler, Dr. Robert M.  
Gutierrez, Avelino V.  
Hackett, Hubert C.  
Hereford, William V.  
8 Higgins, Patricia Holt  
Hodges, J. Norman  
9 Johns, William C., M.D.

- 4 Kasner, Edmund B.  
7 Long, Anton V.  
9 Marshall, John C.  
2 Newhouse, L. William  
2 Romme, Howard A.  
2 Romme, Maurine Trumble  
Slivkoff, James J.  
5 Smith, Patsy Wilson  
8 Sumrell, Gene  
3 Starr, Margaret Smith  
7 Taggart, Cal S.  
4 Taggart, Hal S.  
5 Willis, Bernice Fite  
5 Willis, Henry M., Jr.  
4 Wood, Joe W.

### CLASS OF 1948

\$2,225.50

- 6 Adair, Robin D., Jr.  
Arnot, George A., Jr.  
6 Bargerhuff, Carol Coppock  
2 Behrens, John F.  
2 Bell, James B., Jr.  
9 Benedict, Lois Lembke  
9 Benedict, Peter H.  
6 Boule, Robert C.  
8 Cook, James C.  
4 Crist, Earl W.  
4 Cunningham, William J.  
5 Erdman, Patricia Baxter  
4 Fasnacht, John C.  
4 Fite, Jean Stokes  
Ford, James B.  
6 Foster, Sara Zink  
2 Forsman, Louise Griffin  
2 Freberg, Kenneth E.  
6 Friedman, Maxine Krohn  
7 Gill, Raymond L.  
4 Glass, Robert E.  
Grande, George J.  
Gorman, Robert C.  
3 Hall, Gretchen Goldapp  
2 Hall, H. Jimmie  
Hall, James C.  
5 Harrell, Martha Hughes  
5 Holzweig, Sanford J.  
8 Kraemer, Paul F.  
2 Lucero, Elizardo  
10 Maloof, George J.  
McHarney, Caryl Zemek  
McHarney, R. E., Jr.  
2 McRae, Donald C.  
Palala, Joseph F.  
6 Perovich, John S.  
6 Perovich, June Brewer  
9 Reed, Jack W.  
9 Rice, W. E., Jr.

3 Robbins, M. Chain  
 5 Romero, Eliu E.  
 2 Sandoval, Albert  
 7 Schiff, Martha M.  
 2 Schreiber, Frank L.  
 4 Scott, Cleo White  
 5 Shelton, John T.  
     Statler, Fran McNew  
     Wallace, Geraldine Powers  
 4 Wallis, Margaret Stampfer  
 6 Will, Ralph R., Jr.  
 8 Williamson, Ruth Miller



**CLASS OF 1949**  
**\$1,089.50**

Allen, Julie Simmons  
 4 Bahti, Margaret Hibben  
 4 Bahti, Thomas N.  
 7 Bonine, William T.  
 5 Bower, Margaret Disharoon  
 4 Boyd, David F., Jr.  
 5 Brown, Kenneth L.  
     Brunacini, Raymond R.  
 7 Cariveau, J. Robert  
 9 Causey, Marvin W.  
 5 Cotter, Jane Hoyt  
 2 Coen, George F.  
     Culbertson, James K.  
 8 Denham, Roy D.  
 5 Dorsey, Katherine Newman  
 5 Erdman, William R.  
 6 Friedman, Jerald J.  
 5 Goodman, Eleanor Kohlberg  
 6 Griffee, Dorothy Nissl  
 6 Griffee, John M.  
     Gutierrez, Gilbert R., M.D.  
     Hall, Katherine Witherspoon  
 5 Harrell, Dean O.  
 2 Hayes, Philip T.  
     Heggem, Paul E.  
 8 Helmerman, Quentin O.  
 4 Hughes, Jay W.  
 2 Kasper, Elizabeth  
 7 Ketola, Helen M.  
 5 Krall, Rudolph A.  
 3 Long, Anton V.  
 5 Mahoney, James A.  
     Malone, Virginia Strike  
 7 Manfredi, Frank D.  
 7 Mertz, George H., M.D.  
 6 Nutt, Dr. Katharine Ferris  
 5 Opperman, Raymond H.  
     Rands, Dr. Robert L.

7 Ricker, Chester J.  
     Riordan, Martha Gilfillan  
 4 Roberts, John B., M.D.  
 5 Roeder, Elizabeth Wiley  
 5 Roeder, Phillip W. F.  
 5 Rutz, Anna Brennan  
     Sackett, Barbara Tiedebohl  
 9 Sandberg, Sigfred  
 5 Scott, Courtney D.  
 2 Stoops, Johnny L.  
 6 Strome, Barbara Grimmer  
 7 Taichert, Robert D.  
     Trump, James K.  
     Voorhees, Cdr. Daniel B.  
 3 Washburn, Beverly W.  
 2 Woosley, Harry, Jr.

**CLASS OF 1950**  
**\$3,058.00**

2 Adler, Scott, M.D.  
     Ahr, Ted P.  
 4 Alexander, James M., III  
 8 Anderson, Floy Clark  
 8 Anderson, Sherburne P.  
 4 Angel, Dr. Frank, Jr.  
 4 Baum, John M.  
 2 Brown, James L.  
     Cain, Paul M.  
     Chavez, Eloy D.  
     Darsey, Julius H.  
 10 Dwyer, Betty Pyle  
 6 Esparza, Robert R.  
 6 Fowler, Donald R.  
 4 Fulton, Lt. Col. William S.  
 8 Gesler, Evelyn Mellard  
     Gladden, Edward D.  
 4 Gonzales, Victor, Jr.  
 4 Gorman, William C., M.D.  
     Groman, Patience Paulantls  
 4 Groth, Willis G.  
 9 Hanson, Norman W.  
 4 Harris, George T., Jr.  
 3 Harwood, Daniel I.  
 7 Henriouille, Eugene L.  
 6 Hoffman, Woodrow W.  
 3 Hogrefe, Lt. Col. Carl H.  
 9 Horton, Benjamin K.  
 2 Howard, William V.  
 6 King, Richard A.  
 7 Kiwitt, Sidney  
 5 Klatt, LCDR Ivan J.  
 9 Klein, Robert L.  
 6 Knorr, Mary Adler  
     Krug, Roland W.  
 8 Kurrelmeyer, Louis H.  
 6 Kuzmik, Pete  
 3 Lebeck, Albert O., Jr.

8 Leferink, Ethel Freed  
 7 Manfredi, Edith Norman  
 10 Matteucci, Peter P.  
 6 Matthews, James R., D.D.S.  
 6 Matthews, Margaret Emmell  
 2 McCoy, Robert E.  
 9 McKechnan, Robert B.  
 4 McReynolds, Rosetta C.  
 4 Meyerson, Marvin  
 7 Miller, John J.  
 8 Miller, Robert J.  
 8 Morrow, M. Anne  
 8 Picaro, Joseph  
 8 Plikerd, Isaletta Bennett  
 8 Plikerd, Quinten T.  
 7 Ricker, Irene Betzer  
 9 Ritchie, James C.  
 8 Schlifske, Edward J.  
     Schmidt, Caroline  
     Schneider, Jack O.  
 10 Shoemaker, Rodney W.  
 4 Sowell, Wayne L.  
 2 Spencer, Albert H.  
     Tegard, Frank  
 6 Traub, Benjamin T.  
     Urbane, John J.  
     Vath, Arlene Cunningham  
     Wackerbarth, Allan F.  
 10 Wagner, L. Rex, D.D.S.  
 10 Wagner, Max, D.D.S.  
 4 Watson, James J.  
     Wheeler, John D.  
 5 Wilson, Dr. Herbert B.  
 4 Zimmermann, Judge George L.



**CLASS OF 1951**  
**\$1,408.00**

3 Adams, Homer B.  
 4 Adams, Lester E.  
 2 Alsop, Charles D.  
 8 Anderson, James L.  
 3 Beck, Frank R., Jr.  
 5 Beddo, Byron L., M.D.  
 7 Bonine, Lois Gauweiler  
 5 Bower, Ralph R.  
 6 Brion, Albert E., Jr.  
 3 Calkins, Fred M., Jr.  
 8 Castiglia, Eugene A., M.D.  
     Castillo, Richard R., M.D.  
 5 Catron, John S.  
 6 Cottrell, Marion M.  
 2 Chavez, Benjamin  
 3 Clark, John B.

2 Domme, Edward C.  
 Drucker, Franklin G., M.D.  
 2 Freyschlag, Charles R.  
 6 Furcht, Frederick W.  
 6 Gamble, James H.  
 Green, David  
 5 Henry, Claude R.  
 7 Hinds, Doyle R.  
 3 Hinnman, Jerome A.  
 7 Hodgkins, Lt. Col. Weston M.  
 3 Holway, Helen Thayer  
 10 Jackson, S. Y., Jr.  
 6 Kemman, John F., M.D.  
 8 Kepner, Kathleen R.  
 6 Knorr, Donald R.  
 4 Koolger, Clement C.  
 7 Kranzler, William  
 8 Kuhn, Nancy Coleman  
 4 Lein, Jeanette Cain  
 4 Mariani, Carlo, Jr.  
 6 McNamara, Helen Syme  
 7 Meador, Keith N.  
 3 Mills, Donald E.  
 8 Mitchell, Florence Kleinman  
 4 Murphy, George M.  
 Nygren, Joy Skousen  
 5 Peterson, Don H.  
 6 Peterson, Silas C., Jr.  
 2 Pinckney, Darrell M.  
 4 Pino, Richard J.  
 4 Prince, Martin H., O.D.  
 10 Ratliff, Lydia Curtis  
 3 Rhoades, Donald E.  
 5 Ruffin, Louie E., Jr.  
 3 Rosebrough, Haskell  
 8 Rosenbaum, Jacob I.  
 5 Sanchez, Jane Calvin  
 3 Savage, Thomas G.  
 3 Schroeder, Walter R.  
 4 Shaw, Harley  
 10 Singer, Arnold J.  
 6 Sjudat, Paul D.  
 Soweck, Edward J.  
 5 Stephenson, Lt. Robert B.  
 3 Summers, Phyllis  
 10 Thomas, Shirley McMullen  
 3 Van Haren, Shirley August  
 Warden, Howard M.  
 7 Weir, John A.  
 Wells, Edward M.  
 3 Young, Donald E.  
 2 Zucht, Joseph B.

# CLASS OF 1952 \$2,430.50

8 Aichler, Douglas P.  
 Berman, Malcolm I.

Brooks, Robert L., D.D.S.  
 4 Butterfield, Ernest B., Jr.  
 Cain, Katherine Dunsworth  
 6 Childers, Paul H.  
 2 Coan, John V.  
 4 Creveling, Robert  
 Dedmon, Dwight L.  
 3 Dunbar, Lt. Col. Thomas O.  
 4 Farkas, Russell G.  
 3 Ferro, Joseph J.  
 5 Fitzpatrick, Blanche Kelley  
 Garza, Lalo  
 Gregg, William R.  
 4 Grenko, Pete J., M.D.  
 2 Griffin, David L.  
 4 Hall, Bethany Raddatz  
 8 Hammer, Jeannine Stafford  
 4 Heller, Mary Pettinger  
 4 Helper, Marjorie G.  
 4 Henry, Gwinn "Bub"  
 3 Henry, Marjorie Hailt  
 2 Hight, Beatrice A.  
 7 Holroyd, John H.  
 6 Howell, Robert T.  
 2 Kasler, John H.  
 4 Kelly, Christopher T.  
 8 Kempf, Valentine D.  
 3 Killefain, William L.  
 7 King, Walter E.  
 5 Knight, C. Derwood  
 7 Kranzler, Diane Metzler  
 Kunstadter, Peter  
 2 Long, George  
 5 Love, Jack L.  
 Lyon, M. Jene  
 2 Maloney, Judge James A.  
 8 Marchiando, William C.  
 7 Merrilees, Edward J.  
 8 Miller, Jerri Burran  
 Mohar, John, Jr.  
 Radoslovich, William V.  
 5 Romero, Elizabeth Jiminez  
 9 Sanchez, Robert, D.D.S.  
 3 Schmider, Jack J.  
 3 Schwartz, S. Sam  
 3 Sessoms, William  
 10 Shoemaker, Beverly Hazel  
 5 Smith, Forrest S.  
 4 Snyder, Vera E.  
 Starnes, Victor B.  
 8 Thompson, James T.  
 8 Trinidad, Rupert M.  
 Tuttle, Lawrence D.  
 8 Walpole, Robert J., D.D.S.  
 3 Weaver, John P.  
 7 Westerfield, Frank O., Jr.  
 8 Whalen, John W.  
 8 White, Elmer

2 Willett, John R.  
 Willis, Denny B.



# Class of 1953 \$765.00

9 Aleksey, Edmund R.  
 4 Amsden, Diana  
 3 Angstadt, Barbara A.  
 Babcock, Joyce Fitzpatrick  
 5 Balamonte, Phillip D.  
 Brett, Richard A.  
 7 Bryant, Ernest  
 3 Butt, Dolores Smith  
 4 Campos, Santiago E.  
 Castillo, Victor J.  
 4 Chapel, Ann Thomas  
 Clatworthy, Gretchen Spear  
 Clatworthy, Lt. Col. John  
 Coker, Carl D.  
 5 Corbus, Burton R., Jr.  
 Cordell, William C.  
 David, Roger  
 2 Denney, Ralph J.  
 10 DeVolder, Arthur L.  
 3 Doering, Grace Knudsen  
 4 Drum, Heister H.  
 4 Fallis, John F., Jr.  
 7 Griscorn, Blanche V.  
 Groves, Mary Caldwell  
 2 Hughes, Dr. Orval D.  
 Isaacs, Murray J.  
 Kuhn, Dr. Elmer J.  
 4 Lopez, Peter E.  
 Menicucci, Emma Dalle  
 8 Mitchell, Robert E.  
 9 Norfleet, Robert G., M.D.  
 7 Ogden, Louis B.  
 7 Ortiz, Ruby Velasquez  
 8 Patten, Minette Hall  
 4 Peirce, Eugene W., Jr.  
 2 Pepin Henry W.  
 2 Rady, Dr. Donald E.  
 7 Reynolds, Ann Lindhardt  
 7 Reynolds, Charles B.  
 5 Roberts, Austin E.  
 7 Rockett, Hugo D.  
 3 Sorensen, Arthur P., Jr.  
 4 Utton, Albert E.  
 3 Von Huben, Frederick G.  
 4 Wall, Joanne S.  
 4 Wall, Sinclair S.  
 5 Wherry, Carol Wilkins  
 5 Wherry, Jack L.





# CLASS OF 1954 \$1,487.00

Albers, Darrell B.  
6 Arvanites, Holly Adler  
3 Boe, Roger W., M.D.  
8 Brittelle, William M., Jr.  
7 Bryant, Bobbie Richards  
Carroll, Ray L.  
7 Carroll, Col. Thomas L.  
6 Chisholm, Phyllis Bailey  
6 Church, Hugh W.  
Cinelli, Eugene R.  
Coffman, Stuart O.  
8 Cox, Roger S.  
8 Czirr, Robert B.  
2 De la Puente, Joseph L.  
Enns, Jack D.  
2 Farris, Jo Gore  
2 Farris, John A.  
5 Feld, Beverly Eakins  
5 Feld, Col. Max  
6 Fisher, J. Donald  
3 Friesen, Gloria Knudson  
3 Grady, Tom R., Jr.  
7 Griscom, James L.  
Harley, Robert A.  
3 Hart, Emmett C.  
2 Hayes, Frederick P.  
7 Hendrickson, Jean Drake  
3 Henry, William A.  
2 Howard, Ann Bail  
2 Jasper, John G.  
7 Johnson, Barbara Leferink  
7 Johnson, Sylvester P., III  
Kornfield, Phyllis Axelrod  
5 Koskovich, Charles J.  
7 Ladd, Nadine Moriarty  
4 Lein, Norman C.  
3 Leurig, Louis R.  
3 Leurig, Patricia Kane  
3 Malone, Robert L.  
5 Matkins, Jerome D.  
6 McCullough, Peggy Bohannon  
2 McMinn, Jo Wayland, M.D.  
7 Moore, Murl B.  
4 Myers, Frederick M.  
Ney, Glen  
Ney, Leona Talbot  
5 Nuckols, Phyllis Godfrey  
Rands, Barbara Cornett  
8 Ransom, Richard E.  
7 Robinson, Patricia Fisher  
7 Seth, Charles E.

8 Shaffer, George R.  
Spallina, Maj. Marvin G.  
Starnes, Diane Davis  
9 Subt, Albert G.  
5 Thayer, Norman S., Jr.  
8 Thompson, Corinne Kriege  
4 Thum, George J., Jr.  
8 Villa, Joseph L.  
Waters, E. Y.  
7 Whisler, Leveta Buckner  
6 Witkowski, Anthony J.

# CLASS OF 1955 \$1,850.00

9 Butt, Paul D., Jr.  
7 Butt, Paul L.  
2 Cardenas, Gen. Robert L.  
4 Chapel, Douglas M.  
6 Dils, Tommy F.  
3 Edmundson, Margaret Morrison  
7 Esquibel, Ray O., M.D.  
5 Gardner, William A.  
Goodman, Dr. Albert P.  
4 Grant, Jacqueline Eisele  
4 Grant, Robert D.  
8 Gruer, Maj. Allan L.  
Henry, Nancy Kolb  
5 Hogrefe, Lawrence O.  
8 Hunley, Helen Chase  
6 Johnson, Paul W.  
3 Keleher, William B.  
7 Kool, Roland B.  
5 Koskovich, Judy Hubbard  
5 MacFarlane, Norene Miller  
8 Martin, Dr. Duncan W.  
5 Martinez, Walter K.  
6 Michael, Kaiser, Jr.  
5 Mills, Karlyn D.  
4 Mitchell, I. Newton  
Moore, Carl F.  
7 Moore, Sara Spoon  
8 Morrison, John H.  
5 Mulcahy, John A.  
9 Nations, Herbert P., Jr.  
6 Noble, Burton P.  
9 Norfleet, Barbara Cunningham  
2 Ortman, Marilyn Carson  
7 Parker, Clinton D.  
Pirkle, Clifford A.  
6 Ribble, Dorothy Lewis  
9 Rich, Joseph  
3 Rodey, Ray H., Jr.  
3 Smiley, Thomas J.  
4 Stewart, John H.  
Teeter, John W.  
8 Tingley, Carol Kern  
8 Tingley, Maj. Ronald D.

Verbeke, Robert F.  
2 Ward, John G.  
6 Weaver, Neil E.  
4 Wiley, Roy O.  
Wilson, James J.  
8 Wugalter, Harry



# CLASS OF 1956 \$1,537.00

5 Anella, Albert A.  
4 Barboa, Charles U., D.D.S.  
7 Barnes, Harold E.  
5 Berry, Roy L.  
5 Birkelo, Harry G.  
7 Blech, Arnold H. E.  
Bogan, Robert, Jr.  
7 Brandenburg, James L.  
4 Briones, Felix, Jr.  
8 Brittelle, Linda Stowers  
8 Brunet, Paul C.  
7 Bryan, Richard W. D., M.D.  
4 Buhler, William I.  
9 Catacosinos, Joan Cook  
2 Caton, W. Byron  
6 Church, Kathleen Decker  
2 Cooley, William J.  
7 Cotter, Robert H. C.  
Cox, John F.  
5 Daley, Dr. Marvin F.  
8 Dardenne, Buzzy G.  
4 DeVoe, David M.  
8 Ellis, Margaret E.  
Evans, Clayton A., M.D.  
3 Friesen, Clarence W.  
2 Garcia, Frank B.  
2 Grose, Patricia Stewart  
7 Haste, Glen R., Jr.  
5 Heard, Patrick C.  
3 Heller, Robert  
4 Hendley, William R.  
Hirsch, Elizabeth S.  
8 Hughes, Dr. Herbert H.  
4 Lester, Evelyn G.  
3 Lopez, Alfredo F., Jr.  
2 Malloy, Thomas V., Jr.  
10 Marks, John E.  
8 O'Toole, Louise S.  
3 Petersen, Ann Nevin  
3 Petersen, Cdr. Norman W.  
9 Phillips, Dr. Frances M.  
8 Ransom, Cecilia Smith  
9 Rickelton, Robert T.

- 9 Rowland, Gerald L.
- Spallina, Frances Amacker
- 5 USSery, Meredith S.
- 5 Ward, Joan Lennon
- 2 Wertheim, Robert
- 2 Willett, Bertha Grotta
- Womack, Joe D.
- 4 Woods, Lucy Kruger

# CLASS OF 1957

\$1,676.00

- 5 Berry, Sandra Glassman
- 7 Blickenstaff, Duane E., M.D.
- 3 Boe, Donna Hargrove
- 4 Cainski, Raymond C.
- 2 Caton, Barbara Brown
- 2 Carlson, Dale H.
- 9 Catacosinos, Paul A.
- 8 Chisholm, John W., M.D.
- 6 Cooper, Dr. Arlin
- 5 Daley, Nancy Cone
- 9 Davenport, Mattie Ackins
- 4 Downey, Roy A., Jr.
- Evans, Frances Bonnyman
- 2 Flores, M. Alberta
- 5 Franchini, Gene E.

- 3 Garcia, Julian N.
- 2 Garcia, Reginald J.
- Gault, Robert L.
- 3 Ghattas, Monika White
- Gianardi, John S.
- Goehring, Maurine Gummels
- 5 Griego, Joe E.
- 3 Hawkins, Arthur, M.D.
- 6 High, Charles M., Jr.
- 4 Hines, James H.
- 4 Hines, Mary Hill
- 5 Hogrefe, Mary McPhail
- 6 Hughes, Daniel C.
- Isaacs, Ethel Thaler
- 2 Jaramillo, Maj. John G.
- 3 Keenan, James F.
- 4 Kimbrell, Elsie Kirkpatrick
- Lansing, John W.
- 3 Lewis, Lowell C.
- 6 Longerot, Carl D.
- 4 Malnz, Michael H.
- 3 Marquez, Alfonso
- 8 Martine, Julia Jaramillo
- 10 Matteucci, Robert P.
- 8 McCahon, Richard J.
- 7 Merewether, Edward K.
- 4 Morton, Charles W.
- Myers, Daniel D.
- 3 O'Toole, James M.
- 7 Raizes, Sheldon F.

- 10 Ratliff, Earl D.
- 2 Read, Maximilian L., Jr.
- 4 Sedberry, Carolyn Nielson
- 2 Sei, Richard J.
- 5 Sidwell, James D.
- 8 Slater, Charlene Mason
- 6 Smith, Harrison E.
- 4 Stahl, Jack L.
- 6 Sutherland, David A.
- 4 Teeter, Shirley LaVon
- 7 Thorn, William F.
- 2 Wagner, Sally Crook
- 2 Wagner, William L.
- 5 Ward, William L.
- 2 Wertheim, Elizabeth Howorth
- 7 Yesselman, Max



# CLASS OF 1958

\$1,125.50

- 3 Bailey, Edwin L.
- 6 Barker, Gloria Hanawald
- 6 Barker, Hildreth L.
- 3 Black, Albert R.
- 10 Blair, Billy W.
- 7 Bohme, Rev. Frederick G.
- 2 Brawn, Barbara Pino
- 2 Brawn, Howard C.
- 3 Bringas, Isabel Sisneros
- 6 Brown, Frederick S.
- 7 Brown, Robert H.
- 6 Dalton, Joanne Stevens
- Doran, John W.
- 4 Doughty, Maj. John R.
- 4 Fettingler, George E.
- 3 Finch, Hal A.
- 6 Franks, William R.
- Giles, Glyn M.
- 3 Haikalis, Peter D.
- 8 Hanzel, Frances Coggins
- 7 Hart, Mary Roberts
- 7 Hoffman, Julian R.
- Kling, Robert R.
- 6 Little, Jack B.
- 3 Manly, Philip T.
- 3 Mansur, G. Phillip, M.D.
- 3 Marquez, Ellynor Caeter
- 4 McBride, Max, M.D.
- 3 McCan, Clinton J.
- 8 McDonald, Clyde R.
- 8 McKown, Ruth Stowell
- Miller, Eric K.
- 6 Minshall, Frederick S., III
- 9 Nations, Janet Barnes
- 3 Rager, Rudolph B.

- 9 Rickelton, Esther Gibson
- 2 Sanchez, Maj. Joseph R.
- 3 Siegel, Floyd E.
- 5 Southard, James M.
- 5 Tapia, Marjorie Endres
- 2 Walker, Walter J.
- Walterscheid, Edward C.
- 7 Weintraub, Donald E.
- West, S. Morris, Jr.
- 8 White, John K.
- 4 Woods, Warren W.
- 3 Zimmer, Raymond E.

# CLASS OF 1959

\$1,046.00

- 7 Allbright, Col. William F.
- Atherton, Thomas A.
- 7 Barney, David E.
- 10 Barreras, Rafael C.
- Beaver, Berkley C.
- 3 Benz, Dr. Robert
- 5 Birkelo, Vera Price
- 2 Burks, Garnett R., Jr.
- 3 Campbell, Joseph U.
- 2 Carlson, LCDR William C.
- 6 Chapple, Richard C.
- 2 Cole, L. John
- 3 Danfelson, John W.
- 9 Eanes, Robert M.
- 8 Fallis, Richard M.
- 2 Feezor, John
- 2 Flint, Frank H.
- 2 Fogleman, Edward L.
- Galles, Lee
- 2 Garcia, Shellah Purcell
- 6 Gieswein, Lt. Col. Charles F.
- 2 Goehring, Robert L.
- 2 High, Arlene Rollie
- 3 Hopper, Zane O.
- Hunner, Col. Paul C.
- Kleinfeld, Jerome, M.D.
- 3 Kreyns, Nancy Selbst
- Lemme, Eleanor Griffin
- Lemon, Chadwick E.
- 5 Levy, Benjamin L.
- 6 Little, Patricia Dickinson
- 6 Lonnquist, Chester W.
- Luey, Leon J.
- 3 Mansur, Francine Bingham
- 6 Matteucci, Paul J.
- 2 McGuire, Sheldon L.
- 2 McKim, Lowell E.
- 4 Myers, Margaret Roundy
- 6 Norris, Edward P.
- 7 Parsons, Lt. Clara D.
- 9 Pearson, Louis W.
- 2 Peck, James R.

- 2 Pribble, Richard L.  
Rasmussen, DuAnn Duphorne  
2 Redmond, F. Collister  
2 Redmond, Myrle Van Atta  
2 Roskos, Stephen R.  
6 Roswadowsky, Marvin L.  
2 Schornick, James L.  
2 Shaffer, Donald M.  
8 Shaffer, Nancy Lalicker  
7 Simpson, Howard D.  
3 Snead, William E.  
6 Sutin, Michael G.  
Taulbee, Ann Hume  
Taulbee, Philip S., M.D.  
3 Taylor, Edgar P.  
7 Thorn, Shirley Tinsley  
2 Trafton, Clinton L.  
6 Ward, LCDR John P.  
5 Wespiser, Richard P.  
4 Wheeler, Patsy Cox  
4 Womack, James E.



#### CLASS OF 1960

\$1,713.00

- 8 Beckwith, Bicknell K.  
8 Bentley, Frederick R.  
7 Berube, Raymond E., Jr.  
3 Bingham, William L.  
10 Blair, Ruth Lincoln  
7 Blickenstaff, Loretta Loper  
2 Bohm, James W., Jr.  
2 Bohm, Joann Wilder  
2 Boriff, Joseph A., Jr.  
5 Branch, Turner W.  
4 Bringas, Tomas I.  
3 Briones, Viola Sandoval  
4 Butler, Bruce W.  
2 Carlson, Jane Elder  
4 Caton, Charles A., M.D.  
5 Cooper, Patricia Smith  
Dailey, Jack L.  
Dorak, Robert M.  
Dowalby, Charles B.  
5 Duffie, Kyle R.  
8 Elerick, Nell Schroeder  
8 Fallis, Carol Martin  
3 Fattor, Victor J.  
Field, Cherrill M.  
5 Frumkin, Neil D.  
5 Goode, Malcolm L.  
4 Gosnell, Maj. Wayne L.  
4 Graham, Warren K.  
7 Hart, Joe W.

- 7 Head, William J.  
7 Heyda, James J.  
3 Hopper, Barbara Bracken  
7 Hudson, Elaine Metzger  
5 Hughes, Gertrude Gill  
5 Hughes, Dr. William C.  
4 Jones, Elizabeth Butler  
4 Kelly, William A., Jr.  
2 Kennedy, Susan Seligman  
2 Kimberly, Peter C.  
Kleinfeld, Barbara Schonberg  
4 Kuehn, Robert H.  
7 Larson, John A.  
6 Lepp, Richard L.  
Luthy, C. Fred  
Lutz, Robert M., O.D.  
Mares, Ernest A.  
McCarthy, John F., Jr.  
4 McKinnon, Karen Quella  
9 McPhaul, John C.  
8 Miller, Kay Claude  
3 O'Brien, Robert E.  
8 Patton, LCDR John M.  
6 Prohaska, Gerald F., D.D.S.  
Quist, H. L.  
Reineke, Romola Jackson  
Roeder, David W.  
Sacks, Virginia D.  
3 Sanchez, Ricardo T.  
2 Schornick, Barbara Von Dreele  
4 Trueba, James L.  
8 Weld, Carole Clayton  
8 Weld, Charles E.  
4 Wespiser, Bertha Bradt  
10 Wylie, Claude B., Jr.

#### CLASS OF 1961

\$1,176.00

- 6 Ashby, H. Anthony  
Baker, William E.  
7 Beatty, Paul E.  
8 Bentley, Mary Summers  
Bergman, Eugene H.  
3 Black, Sally Van Etten  
3 Black, William G.  
2 Bloom, Paul L.  
6 Boehning, Joseph F.  
8 Bolduc, Mariette Conzett  
Brown, James C.  
8 Butt, Carole Weichman  
2 Carpenter, Helen Hougen  
2 Carpenter, Kenneth M.  
8 Castillo, Alvino E.  
Chalamidas, Stewart L., M.D.  
Chant, George A.  
6 Clarkson, Jackie King  
Cleff, H. L.

- 7 Cole, Gerald R.  
2 Corbin, Dr. Charles B.  
Elias, Anthony R.  
2 Eubank, Bernard F.  
Farfel, Clifford A.  
4 Fattor Mary Arnot  
6 Fisher, H. Don  
6 Fisher, Paula Karrh  
7 Friloux, Arleen Olson  
Fritsch, Mary Seibert  
5 Frumkin, Sally Ambos  
5 Garcia, F. Chris  
5 Gates, Mary Ann  
3 Ghattas, Robert N.  
Goodier, B. G.  
7 Gore, Raymond A.  
3 Hardison, Kenneth J.  
2 Harrison, Blanche McCord  
4 Henry, Donald J.  
4 Hirsch, Fred G., III  
3 Kennedy, John L., D.D.S.  
3 Kyne, John M.  
7 Lane, John H., Jr.  
Larsen, Harry R.  
6 Lawrence, Barbara Hunter  
5 Lodin, Angela Amorous  
2 Matthews, Stephen A.  
6 Maxwell, Robert R.  
Miller, Jean Reynolds  
5 Miller, John C., II  
5 Oldenburg, Eileen Drab  
2 Ortiz, Alfonso A.  
2 Putz, Royal Phillips  
6 Radwanski, Carl F.  
8 Ramsey, Emma Shay  
8 Ramsey, John W.  
5 Rila, Mary Carter  
3 Rohla, Michael R.  
5 Rose, Mason H., V.  
2 Sanchez, Cesarine Knight  
7 Sarthory, Joseph A.  
4 Shmaeff, Robert T.  
7 Shriver, George L.  
5 Southard, Lucy Freeman  
Souza, Barbara Bormeister  
4 Sowell, Janice Phillips  
Sprague, Lucien L.  
3 Thompson, Mark B., III  
4 Tinnin, Robert P., Jr.  
7 Valdez, Alfred A.  
6 Weaver, Worden  
Werner, Robert J.  
6 Wetherholdt, John R.



## CLASS OF 1962

\$1,146.50

- 5 Annon, Olivia Vincent
- Barnett, Martin E.
- 2 Bauer, Bruce
- 8 Beckley, James F.
- 5 Bender, Carl
- 4 Bender, Madge Canoyer
- 7 Berube, Jackie Ferreri
- 2 Black, Dorothy Wade
- 7 Bolduc, Michael J.
- Bond, Frank M.
- 9 Bond, John D.
- 7 Breece, Michael W.
- 6 Brummell, Bernard E.
- 5 Brummell, Jeanne McGillan
- 3 Budnick, Robert J.
- 6 Campbell, Ray F.
- Cantrell, W. Karen
- 3 Caplan, Ruth Thurlow
- Casados, J. E.
- 3 Cella, Joseph W.
- 4 Cole, Barry G.
- 8 Cooper, Kenneth C.
- 8 Cramond, Wallis R.
- 4 Davis, Kathryn E.
- 7 Devers, Victor L.
- 3 Drake, Bonnie McMahan
- 10 Eanes, Lorraine Ruth
- 7 Elliott, Richard M.
- Elstran, Sydney Dahlen
- Eriacho, Wilfred, Sr.
- 8 Evans, Franklin
- 5 Frank, Edwin, Jr.
- 6 Franks, Winifred Horne
- Fu, Yum Kee A.
- 5 Gates, Harvey M.
- Gemoets, Edward L.
- Gerding, Richard L.
- 4 Grotheer, Charlotte Devendorf
- 7 Harrison, Lt. George S.
- 2 Harroun, Patricia Biron
- 5 Haycock, Shelby Smith
- 5 Jolso, Damlan J., D.D.S.
- 2 Kempter, Dale E.
- 5 Kennedy, George A.
- 6 Klinefiver, Maj. Lawrence R.
- 4 Knighten, Linden M.
- 3 Knox, Susan Hirsch
- 5 Krautter, William F., Jr.
- 5 McGee, Marilyn Canady
- 5 McKinnon, Dan A., III
- 2 McMahon, Joseph D.
- 8 Meister, John D.
- 8 Meister, Martha Terwilliger
- 2 Melvin, Norman W.
- 2 Melvin, Rachel Shaver
- 6 Merville, Herbert D.
- 2 Mervyn, William C.
- 7 Michelson, Jack T.
- 7 Michelson, Judith Miller
- 8 O'Neal, Dr. Robert D.
- Rimal, Durga N.
- 4 Rodriguez, Gerald P., M.D.
- Ruff, Joan
- Sada, Diana Iacoletti
- 4 Sadilek, Julius B.
- 7 Salomon, Marrian P.
- Shishman, Thomas T.
- 2 Simons, Lt. Col. John W.
- 2 Smith, Nelda Mims
- Souza, Robert A.
- Tolman, Myrtle Thief
- 5 Tomlin, Lt. Joseph M.
- Torres, Javier
- 2 Trafton, Dorothy Curtis
- 7 Weber, Kathleen Wood
- Weir, Robert K.
- 3 Wienen, Mary R.
- 6 Wolkoff, Edwin A.
- 3 Wyatt, Vivian DeNatale
- 4 Zandt, Esther Hoover



## CLASS OF 1963

\$1,331.00

- Atkinson, Charles M.
- 4 Barclay, George M.
- 7 Beckley, Yvonne Garcia
- 4 Berry, Dale W.
- 3 Blagg, Robert W.
- 7 Brooks, Richard Owen
- 2 Burggraaff, Dorothy Knoblock
- 8 Cloward, Judith Dodd
- 2 Crosse, Murray L., Jr.
- Danoff, Louis D.
- 5 Dempsey, Glenn M., M.D.
- Dillon, Dorothy W.
- 6 Farrar, Thomas R.
- 3 Francis, Samuel A.
- Garcia, Joseph V.
- 5 Gaston, Lawrence R.
- 4 Georgius, David R.
- 4 Georgius, Elizabeth Buenger
- 8 Hamilton, Ross A.
- 7 Hamlett, Dale
- 8 Hayes, Stuart F.
- 6 Hays, Capt. William S.
- 8 Herhold, Allen D.
- 5 Hoglund, David L.
- 2 Howden, Linda Srote
- 2 Howden, William D.
- 2 Ivers, Donald L.
- John, Robert
- 6 Johnson, M. Sondra Schrom
- 7 Kampfe, William R.
- 5 Keleher, Gretchen Cunningham
- 2 King, Archer E., III
- 2 Knight, Shirley Holst
- 7 Kuhl, Charles A.
- 5 Latimer, Lee A.
- 3 Luck, Susan R., M.D.
- 6 Maxwell, Dr. Russell M.
- McCorkle, Nancy Ballenger
- McCorkle, Robert G.
- 7 McElyea, Ulysses, D.V.M.
- 6 Meitz, Robert O.
- 7 Metzger, Allen L.
- Pickens, Aree Grigsby
- 7 Plerson, William P.
- 7 Pugh, Helen J.
- 3 Rowe, William L.
- Sanchez, Alfred
- 6 Schwalbe, Diana Dasburg
- Shimizu, Russ T.
- 4 Simpson, John E.
- 2 Spang, Richard E.
- 3 Sperry, Roger L.
- 3 Sterling, Donald E.
- 4 Sutin, Jonathan B.
- 2 Swartz, Slata Pauline
- 3 Swigger, Ronald T.
- Thomas, Frank M.
- 8 Villarreal, Abelardo
- 7 Weber, Russell E.
- 4 Wellborn, Charles I.
- Wellborn, Donald J.
- 7 Wheeler, Robert M., Jr.
- 2 Wicklund, Albin P.
- 5 Yates, Millicent E.

## CLASS OF 1964

\$697.00

- Baczek, Frank A.
- 2 Bernstein, Capt. Lewis A.
- 4 Broullire, Peter J., III

*The Development Office will appreciate your calling any errors in these listings to our attention.*

Brown, Elizabeth Mize  
 Chalamidas, Sharon Heard  
 8 Cloward, Lt. Richard S.  
 3 Daly, Laurene Holt  
 3 Daly, Patrick J.  
 4 Davenport, Lt. Marvin E.  
 2 Day, Shirley Sells  
 3 Dixon, Robert M.  
 Duray, Paul H.  
 England, David  
 Fernandez, Capt. J. A.  
 6 Franczak, Capt. James J.  
 6 Franks, Philip E.  
 4 Galvin, Joe H.  
 5 Garcia, Sandra Galloway  
 7 Garrison, Laura A.  
 Gassman, Robert L.  
 5 Glenn, Gary O.  
 6 Grace, Evelyn Wienecke  
 3 Griffith, Dr. William T.  
 7 Gutierrez, James E.  
 4 Hubbard, Howard H., II  
 4 Hughes, Janice Heard  
 6 Hutchins, Patricia Cazier  
 Ikeda, Miyoshi  
 2 Ivers, Patricia Hamilton  
 6 Jago, Lucille Brandon  
 5 Keleher, Thomas F.  
 7 Lowry, Dennis E.  
 5 Lyon, Michael T.  
 4 McRae, Donna Trotter  
 Measday, John T.  
 7 Meyners, Richard T.  
 4 Michelson, Douglas J.  
 5 Montoya, Capt. Vincent P.  
 4 Needham, Ruth Schulte  
 Parodi, Sarah Childs  
 5 Plett, Betty Ray  
 2 Quist, Olivia Savage  
 4 Rhodes, Ellen Henderson  
 6 Riebsomer, Mildred Tate  
 8 Saunders, Helen Inness  
 8 Saunders, Paul  
 Sedlock, William E.  
 2 Schoenhut, William F., Jr.  
 3 Sattelmeyer, Patricia Jones  
 Shishman, Marsha Sauerman  
 6 Storm, Ellery  
 3 Swigger, Nancy Duncan  
 2 Torr, Jerry  
 6 Turner, Samuel S.  
 2 Villella, Lynn Buckingham  
 Wellborn, Fred W.  
 5 Welch, Segried Hoyt  
 6 Wright, Thomas G.  
 2 Zakocs, Edward, Jr.  
 2 Zakocs, Patricia Emyrn



## CLASS OF 1965

\$1,105.50

6 Ables, Capt. Charles K.  
 4 Anna, Terry L.  
 5 Bacchus, Charles E.  
 6 Balachowski, Joseph  
 5 Blandin, Bradford L.  
 Burwinkle, John V.  
 Carey, Richard L.  
 2 Carroll, Dr. John E.  
 6 Cliff, LCDR Gene L.  
 2 Cooney, John R.  
 Coppler, Francis R.  
 3 Currier, Michael C.  
 2 DuBois, Snowden C.  
 4 Eyler, Kathleen A.  
 4 Fitzpatrick, Dr. Mildred  
 6 Giger, Capt. John M.  
 6 Goldberg, Mitchell S.  
 Gonzales, James L.  
 6 Guhl, Eldon L.  
 3 Gustafson, Lt. Carl E.  
 3 Gustafson, Kathe Worthing  
 Horney, Capt. Peter A.  
 6 Huebert, Edith Rabuck  
 5 Hughes, John D.  
 4 Janus, Marilyn Rowland  
 4 Johnson, Meredith J.  
 5 Jonz, Jon G.  
 7 Julien, Hershey  
 Kruzich, Joe L.  
 3 Lane, Elaine Bahm  
 Lange, Ernest K.  
 Lange, Mary Dains  
 3 Leach, Donald H.  
 5 Lehman, Charles J.  
 2 Mahr, Edwin  
 3 Malnar, Steven R.  
 5 McGee, William R.  
 7 Melling, Clark J.  
 Mershon, Ronald  
 4 Moore, Roxilana Morrow  
 2 Morgan, Barbara Nylund  
 2 Mushen, Col. Robert L.  
 4 Needham, Charles E.  
 Parodi, Richard S.  
 2 Pepin, Margaret Bedford  
 2 Polansky, Ernest A.  
 Raburn, Wilford D.  
 Rossi, Ronald J.  
 5 Rybak, James P.  
 4 Saab, Fuaad (Fred)  
 4 Simson, Helene W.

3 Sterling, Sue Measday  
 3 Stout, Kathleen Orlando  
 Stribling, Thomas  
 3 Thompson, Billie Williams  
 2 Thornsley, John T.  
 4 Townsend, Maj. T. A.  
 4 Traeger, Dr. Richard K.  
 2 Villella, Patrick  
 3 Walker, Stephen M.  
 4 Warren, William F., III  
 3 Wellborn, Jeanette McCausland  
 Wellick, William A.  
 3 Werner, Robert J.  
 Wham, Matalie  
 4 Wiater, Patricia Lynch  
 4 Winblad, Gladys Reynolds  
 6 Wright, William A.



## CLASS OF 1966

\$674.50

3 Albert, Harold B.  
 3 Allis, Kyla Taylor  
 Bacchus, Stephen P.  
 4 Becker, Col. William R.  
 2 Branch, James A.  
 2 Brandenburg, James M.  
 2 Bright, Robert A.  
 4 Bryant, Carol L.  
 4 Chavez, Reginald F.  
 Chiordi, Michael J.  
 4 Cohn, Roger S.  
 Cooper, Daniel W.  
 8 Cramond, Wilma Taylor  
 4 Crosby, Lt. Ted R.  
 DeBuck, John G.  
 2 Dibella, Syria  
 4 Dow, Carol Moeding  
 4 Dow, Richard B.  
 4 Erickson, Lee E.  
 4 Erickson, Margaret Mason  
 Fralick, Capt. Don E.  
 5 Glenn, Carol Willers  
 Glenn, Ronald J.  
 2 Gober, Jay L.  
 2 Gober, Valerie Hart  
 3 Griffith, Adelia Sasaki  
 Hagerman, Gary R.  
 2 Harris, George T., III  
 3 Herkenhoff, Walter E.  
 5 Hess, Richard A., Jr.  
 Horney, Marie Rael  
 2 Houtman, Dirk E.  
 5 Johnson, Robert L.

- 2 Kalas, Frank J., Jr.
- 5 Krejci, Lt. Emil J.
- 3 Lane, Golden E., Jr.
- 5 Lyon, Mary Thompson
- 3 Mackay, Dr. Harold A.
- Mahgrfcteh, Karen Arch
- 3 Malnar, Adelaide Collins
- 3 Marrotto, Ronald R.
- 4 Merson, Thomas J.
- Morgan, Bruce J.
- 10 Nason, Dr. Marshall R.
- 2 Ottaway, Lucretia Dee
- Otten, Capt. L. John, III
- Otten, Robin Dozier
- Park, Byong Ki
- Phillips, Benjamin J.
- Puccini, Oreste L., Jr.
- Quargnali, Paola B.
- 2 Ramponi, Jo Anne O.
- 2 Randall, John D.
- Raven, Carol Raymond
- 4 Rhodes, Joseph S., III
- 2 Roeder, Christine Voute
- 2 Roeder, Michael T.
- 2 Robinson, Kenneth B.
- Scheer, John W., Jr.
- 5 Schoen, Rodric B.
- Veneruso, Anthony F.
- 4 Warren, Karen Cohen
- 2 White, Jerome B.
- 4 Wiater, Capt. Paul H.
- 6 Yesselman, Charlotte Brown
- 4 Yuen, Alexander E.
- 2 Zavoshi, Amin
- 3 Zeikus, Bradford H.

#### CLASS OF 1967 \$887.50

- Barnes, Jack  
Beach, Arthur O.  
Bonachea, Mary
- 3 Bradley, Michael D.
  - Braudt, Capt. Susan L.
  - 2 Brett, Joseph D.
  - Brunz, Janice J.
  - Buchanan, Robert D.
  - 2 Burggraaff, Winfield J.
  - Byrne, Michael G.
  - Callender, Velma S.
  - Chavez, Solomon P.
  - Cochran, Alice Anderson
  - 2 Corbin, David E.
  - Cornelius, Stanley
  - Cutler, James W.
  - 3 Downey, Donald A.
  - 2 Ealy, Lt. Richard G.
  - 2 Edmundson, William D.

- Erney, Judith Jones
- 3 Fannin, Anita Ross
  - 2 Frahme, Robert B.
  - 3 Galiara, Ashvin C.
  - 5 Goetz, Walter
  - 2 Grant, Norma Mowrer
  - 3 Greer, Edwin S., Jr.
  - Hearnsberger, Edward A.
  - Heitman, Freddie LaVerne
  - Hill, James K.
  - 4 Hirschfield, Dr. George
  - Judnich, Susan Wadman
  - 4 Kearfott, Mary Veatch
  - Kemp, Ralph L.
  - 3 Kendall, Lloyd W.
  - Kendig, Michele Mulligan
  - 2 Kirby, Capt. David P.
  - 3 Kool, Donna Tyler
  - 4 Lawrence, Francine Olivet
  - 2 Lunt, James D.
  - Maziotti, Charles A.
  - McGeorge, Robert L.
  - 2 McVey, Constance King
  - 6 Messler, Jon P.
  - 4 Milensky, Joseph
  - Orser, Jo Annette
  - 3 Pansegrau, William
  - Parnall, Theodore
  - 4 Paskind, Martin B.
  - 3 Prager, Gary
  - Rohovec, John S.
  - Ross, Ronald F.
  - Rouleau, Pauline A.
  - 2 Rueckhaus, Michael M.
  - 4 Schroeder, Donald H.
  - Sciarra, Louis A.
  - 3 Skaggs, Samuel R.
  - 3 Smith, Burton J.
  - 2 Stephenson, Marilyn Ryde
  - 2 Tishler, Edward J.
  - Walker, Carolyn Coker
  - Wiggins, Bruce E.



#### CLASS OF 1968 \$886.00

- Anonymous
- 2 Azouz, Victoria L.
  - Bacchus, Jane Mullins
  - 3 Bender, Louis B.
  - 3 Bender, Veronica
  - 2 Bowman, Marcia J.
  - 2 Bundy, Paul S.
  - Burke, Henry W.

- Carnes, Sam A.
- 3 Cavanna, Robert C. W.
  - Chalif, Elliott H.
  - Chavez, Edward R.
  - 3 Church, Gordon M.
  - 2 Cleff, Gretchen Brooks
  - Cook, John C.
  - 3 Curran, Edward T.
  - 2 Dennison, Daniel, Jr.
  - 2 Dennison, Laura Loy
  - 3 Downs, David B.
  - DuChene, Harvey R.
  - 2 Duffy, Barbara Karr
  - 5 Foss, Theodore T.
  - Fulton, Jean C.
  - 2 Gaudio, Anita
  - 3 Geer, Hunter L.
  - 2 Gemmell, Suzanne
  - Glover, JoAnn Lovell
  - 2 Graff, Harry J.
  - Graham, Lt. Alan S.
  - 2 Grim, Judith Malcomb
  - Gunn, Roy S.
  - 3 Harris, Janet Grace
  - Harris, Lt. Ronald G.
  - Harris, Sheila Scott
  - Hoffman, Lou D.
  - Hunner, Jane Hoffman
  - 2 Jacobs, Philbert D.
  - Judnich, Francis A.
  - 2 Kellahin, William T.
  - Kennedy, Bruce A.
  - 2 Khanh, Doan H.
  - 3 Kirk, Gary E.
  - 2 Larson, William R.
  - 3 Malin, Linda
  - 3 Malry, Dr. Lenton
  - 2 Mapes, Margaret E.
  - 2 McCorkle, Eilyn Townsend
  - Moss, Deane Becker
  - 2 Muxworthy, Kurt L.
  - 2 Muxworthy, Linda
  - 2 Part, Stephen M.
  - Partridge, William F.
  - 2 Pickens, William H.
  - Polansky, Marianne Vancil
  - 2 Regan, Raymond R.
  - 2 Robertson, Donald J.
  - Sanchez, Leonard R.
  - 2 Sandoval, Max B.
  - 2 Schroeder, Miriam Griswold
  - Shannon, Malcolm L.
  - 3 Singleton, John L.
  - Skarsgard, Gordon L.
  - 3 Smith, Dorothy Duncan
  - Smith, Beverly Brown
  - 2 Smith, Ralph D.
  - 2 Steele, Thomas J.

- 2 Stephenson, Thomas E.  
3 White, Virginia Doyle  
Wilburn, J. Bart  
Young, Rodney W.



#### CLASS OF 1969 \$670.50

- Anderson, Kathleen M.  
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     DeFrate, Angelo J.  
 2 DeMmon, John  
 2 Denes, Peter A.  
     Denitto, Karen Ann  
 2 Denneedy, Mrs. Kathryn  
     DePauw, John & Mary  
     Derbyshire, R. C., M.D.  
 2 Derryberry, Mr. & Mrs. J. R.  
 2 Dettweiler, Jack  
     Dettweiler, Mrs. A. H.  
     Deutscher, Armand S.  
 2 DeVesty, Malcolm W.  
 2 Dewey, Allen C.  
     D'Huy, Mr. & Mrs. George F.  
     D'Huy, Mrs. John  
     D'Huy, Mrs. Roy E.

- DiBella, Angelo  
 4 Dickason, Don L.  
 Dieterick, Roger M., Sr.  
 3 Dillon, Dr. Richard T.  
 4 Dilts, Dale B.  
 DiLorenzo, J. Edmund  
 Dirks, Ronald B.  
 Dobbin, Margaret A.  
 Doerfer, Mr. & Mrs. H. B.  
 2 Dolittle, James  
 Donahue, Mrs. Joseph M.  
 8 Donaldson, Harper C.  
 Donaldson, Mildred  
 Donla, Wally J.  
 Donnelly, Mr. & Mrs. A. J.  
 Donohue, Capt. Margaret E.  
 2 Doolittle, George  
 Doran, Mr. & Mrs. Robert G.  
 Douglas, Mr. & Mrs. Sam S.  
 Doue, Wendell S., M.D.  
 Dow, Mr. & Mrs. Red  
 Downey, Vern  
 6 Driscoll, Charles  
 Dubois, George A.  
 Duganne, Mr. & Mrs. Paul R.  
 2 Duhigg, John J.  
 Duke, Jean  
 DuMoulin, Mr. & Mrs.  
 Rockwell King  
 Dunbar, C. E.  
 Dunn, Mr. & Mrs. C. D.  
 Dunnett, Mr. & Mrs. Joseph  
 2 Durant, Mr. & Mrs.  
 Dwyer, John P.  
 5 Dyer, George R.  
 Dykers, Marie G.  
 Earl A. Bird Family  
 7 Earl, Wayne A.  
 Easter, Mr. & Mrs. Ronald  
 Easton, Mr. & Mrs. Bill  
 Easton, William J.  
 Eckhart, Mr. & Mrs. J. C.  
 Edmister, Grace T.  
 Edmondson, Joe L.  
 Edmondson, Mr. & Mrs.  
 William R.  
 2 Edwards, Charlene  
 Edwards, Charlie D.  
 Eichenlaub, Mr. & Mrs. Frank J.  
 Eiffert, Dr. & Mrs. Kenneth P.  
 2 Elias, Charles  
 Elliott, Dale  
 3 Ellis, Dr. Bruce T.  
 Ellis, Dr. & Mrs. Henry C.  
 Ellis, Joan T.  
 3 Elmore, Luther  
 3 Ely, Francis  
 English, E. C.  
 2 Erdahl, Leland O.  
 Esenwein, Mr. & Mrs. James W.  
 Estess, Morris L.  
 Evans, William S.  
 Everett, Russell  
 3 Falls, G. Y.  
 Falls, W. D.  
 10 Fanning, W. A., D.D.S.  
 8 Farris, Lee L., M.D.  
 2 Faulkner, Dr. James  
 Faust, Mrs. Charles F.  
 Fawcett, James P.  
 Feather, Tolbert V.  
 9 Felter, Jack L., O.D.  
 Ferguson, Mr. & Mrs. Gordon  
 Ferguson, Margaret  
 Fernandez, Rita  
 Ferreri, Ronald  
 Field, Paul L.  
 Fikani, Mrs. Ona C.  
 3 File, Leslie  
 5 Fingado, Mr. & Mrs. Henry S.  
 Fink, Robert E.  
 Fishbein, Joel  
 Fisher, Mrs. Albert J.  
 4 Fisher, Mr. & Mrs. Robert A.  
 2 Fitzpatrick, George  
 Fitzpatrick, William G.  
 Flaming, Mr. & Mrs. C. W.  
 Flaming, Robert  
 Flanagan, Mrs. Harold E.  
 4 Flatow, Max  
 Fleming, Mr. & Mrs. Don  
 Florance, Mona  
 5 Floyd, Dr. & Mrs. Vaun T.  
 Folsom, Katherine A.  
 Foote, Jack C.  
 Ford, Margaret T.  
 Forman, Mrs. Joanne  
 Fort, Virginia R.  
 Foussard, Henri G.  
 Foussard, Roger P.  
 2 Foy, Thomas P.  
 3 Fox, Frederick, M.D.  
 3 France, Charles, M.D.  
 2 Francis, Dr. James J.  
 2 Frank, Mrs. Jerome  
 Frank, Mrs. Margery  
 2 Franks, Leland B.  
 2 Freedman, Harold L., M.D.  
 Freehafer, Mr. & Mrs. Lytle J.  
 Fritz, Joe F.  
 2 Frogner, Peter  
 Fu, Mrs. Susan  
 Fugero, Albert  
 Fuhrer, Mr. & Mrs. Carl H.  
 Fulmer, J. D.  
 Funderburk, Don  
 Gabriel, Bro. Brendon  
 Gage, Mrs. Elaine  
 Gale, David  
 Galles, Frank R.  
 Galves, Mr. & Mrs. Albert  
 3 Gaona, John I.  
 Garcia, Mrs. Frances L.  
 Garcia, Lawrence A.  
 Gardenswartz, Harold  
 Gardnier, Gary  
 Garling, H. J.  
 Garret, Mrs. Martha S.  
 Gascoyne, John P.  
 Gauert, W. B.  
 Geiger, Don  
 Geiger, Walter  
 Geist, Jerry D.  
 5 Gentry, T. P.  
 Gentzler, Edward C.  
 George E. McDevitt Family  
 George, Peter B.  
 Gerard, Valerie  
 Gerding, Lou  
 Gerety, Sally M.  
 2 Giannini, Lena  
 Gibbs, Robert  
 Gilbreath, Kent  
 Gilley, Cleste K.  
 Gilman, James K.  
 Gilmore, Bob  
 Gilpin, Laura  
 Gineris, Angelo  
 2 Ginsburg, Roger  
 Glarner, Mr. & Mrs. Terrence W.  
 Glass, John S.  
 Glazer, Mr. & Mrs. Jules  
 Gleason, Marilyn  
 Glover, James  
 Glymour, Clark  
 Goddard, George  
 Goerlick, Berthold H., M.D.  
 5 Goldberg, Mrs. Henry  
 2 Goldman, Simon  
 Gomez, Frank R.  
 Gonzales, Andres Torres  
 3 Gonzales, Moe R.  
 2 Goodman, Gerald  
 Goralczyk, Mr. & Mrs. Gerald  
 Gordon, Mr. & Mrs. Andrew M.  
 Gorman, Mr. & Mrs. Jim  
 Goss, J. E., M.D.  
 3 Grady, Don W.  
 3 Graham, Ed J.  
 Granoff, Mr. & Mrs. Barry  
 Graumann, Roger  
 Gray, Mrs. Carl M.  
 Green, Catherine F.  
 Green, Friday

- Green, Mrs. Joanna  
 3 Green, Sam  
 5 Greenhood, David  
 Greenspan, Jan  
 Gregg, Mrs. William R.  
 Griego, C. T.  
 3 Griffin, Dr. & Mrs. J. F.  
 Griffing, Mr. & Mrs. James  
 Griffing, Mr. & Mrs. Tom  
 Griffith, Homer  
 Gromek, S. L.  
 Gruler, Brady M.  
 Gurian, Mr. & Mrs. Abraham  
 Haag, Mr. & Mrs. Theodore B., Sr.  
 Haddox, Keri  
 Halford, Mrs. W. A.  
 2 Hall, B. Nickels  
 9 Hall, Dr. & Mrs. J. E.  
 Halliday, Ian G.  
 Halpin, Mr. & Mrs. James H.  
 Hamilton, Jerry  
 Hand, Mrs. Evelyn C.  
 Haney, Mr. & Mrs. Donald  
 Hankla, Mr. & Mrs. Lloyd  
 Hanley, R. M.  
 Hansen, Herbert  
 Hanson, Mr. & Mrs. George M.  
 Harasowska, Marta  
 Harenberg, Henry  
 Harenberg, Julia  
 Harrigan, Mr. & Mrs. Robert J.  
 5 Harris, Mrs. Dorothy  
 4 Harris, George  
 Harris, James M.  
 2 Harris, Kenneth  
 Harris, Robert J.  
 Harrison, James  
 4 Hartz, Alvin S., M.D.  
 Harville, Donald D., M.D.  
 Hasek, Dr. & Mrs. Ondrej E.  
 Hass, Morris, D.P.M.  
 Hatch, H. H.  
 Hatton, Philip  
 2 Hattox, Jerry  
 Hauge, Mrs. Francis  
 Hawley, Mr. & Mrs. George  
 Haworth, Jim  
 6 Hayes, Dr. C. Walker  
 2 Hayes, Thomas A.  
 2 Hayman, S. J.  
 Hanna, Robert  
 Heaston, Mr. & Mrs. Joe G.  
 3 Heath, Mrs. Helen T.  
 Heberling, James H.  
 Hedger, Mrs. Florence C.  
 Hotander, Mrs. Doris  
 Hollwig, Mr. & Mrs. George  
 Hendren, Lyn  
 7 Hendrickson, Dr. Morris S.  
 Henfeldt, A. R.  
 Henshaw, Paul T.  
 Herman, Dr. Simon  
 Herring, Edwin B.  
 3 Herrman, Jack A., M.D.  
 5 Hertford, Gen. Kenner T.  
 Hertzberg, Mrs. John S.  
 Heskett, Bruce C.  
 Hichok, Mr. & Mrs. Charles  
 3 Hight, Mrs. George C.  
 Hillmeyer, Gladys Ann  
 Hillson, David C., D.D.S.  
 3 Hinkle, Gene E.  
 2 Hiss, William L.  
 2 Hitz, Mrs. Hazel T.  
 Hof, Mr. & Mrs. Richard  
 Hof, Mr. & Mrs. Wilbur  
 Hoffman, Harold C.  
 Hoffman, Mrs. Hilda H.  
 4 Hogan, Dan  
 Hogan, Frances F.  
 3 Hogue, Carlos  
 Hollbrook, Mr. & Mrs. James  
 Holland, Marc  
 Hollander, Mr. & Mrs. Howard B.  
 2 Holt, Herbert A.  
 4 Hooten, Bill  
 Hoppman, William B.  
 Horan, Michael  
 Horn, J. C.  
 Hornbuckle, H. T.  
 Horne, Hugh R.  
 Horner, M. L., III  
 4 Hoshour, Mr. & Mrs. Harvey S.  
 Hottenstein, Dr. & Mrs. Daniel  
 2 Houston, Les  
 Hubbard, David G., M.D.  
 10 Hubbard, Mr. & Mrs. John C.  
 Hubbell, Herbert R.  
 10 Hubbell, Philip  
 Hudson, William M. II  
 Huebner, Frank  
 8 Huffman, Mr. & Mrs. Oscar B.  
 2 Hughes, C. D.  
 3 Hughes, John  
 Hull, Cornelia  
 3 Hullburt, R. C.  
 3 Hunker, George H., Jr.  
 Hunt, Robert S.  
 Hunter, Weldon  
 Huntington, Jean  
 Huppert, Leo W.  
 3 Hurley, Milas L., Jr.  
 6 Ilfeld, Mr. & Mrs. Max L.  
 Ingham, W. J.  
 Inman, Christopher C.  
 Inman, Mrs. Clyn  
 Ivanoff, Spas S.  
 4 Jackson, S. Y., Sr.  
 3 Jacobs, Harvey, M.D.  
 Jacobs, Mr. & Mrs. Lester D.  
 Jaeger, Zella  
 9 Jarvis, Mrs. Russell B.  
 Jelinek, Frank  
 Jello, Joseph A.  
 Jenkins, Milton E.  
 Jenkins, Murphy  
 Jenkins, Mrs. Roger P.  
 2 Jennings, James T.  
 Jensen, Mrs. Richard  
 Jerkins, J. M.  
 Jessen, Larry  
 Jick, Mr. & Mrs. Clarence  
 Johns, Mrs. Olga  
 Johnsen, Richard W.  
 Johnson, Anna L.  
 5 Johnson, Bryan G.  
 Johnson, Dick  
 6 Johnson, Edward L., M.D.  
 4 Johnson, Eric G., M.D.  
 Johnson, Mr. & Mrs. Howard R.  
 Johnson, Mr. & Mrs. Lester G.  
 Johnson, Richard N.  
 Johnson, Russell H.  
 Johnson, Wally  
 Johnston, Dr. Marjorie C.  
 2 Johnstone, Don  
 Jolly, Charles D.  
 Jones, D. E.  
 Jones, Ernest E.  
 Jones, G. Wilbur  
 Jones, Hal  
 3 Jones, Mr. & Mrs. J. W.  
 Jones, Mr. & Mrs. J. Oscar  
 2 Jones, John H.  
 Jones, Margaret W.  
 Jones, Mrs. Susan C.  
 2 Jones, Thomas E.  
 7 Jorgenson, T. J.  
 4 Jory, Ed  
 2 Judd, Mrs. Judith  
 2 Julian, Mrs. John C.  
 Julian, Dr. Maureen M.  
 Kahn, Mr. & Mrs. Biel M.  
 Kaiser, Roland V.  
 Kane, Mr. & Mrs. Paul E.  
 Kapke, William A., Jr.  
 Kaplan, Carolyn  
 Katcher, Stanley A.  
 2 Katz, David N.  
 Katz, Mrs. R. B.  
 Kauffman, Bruce L.  
 4 Keefe, Paul E.  
 Keene, Culby R.  
 Keiser, Mrs. George C.

- 2 Keith, Ben
- 2 Keller, H. A.  
Keller, Mr. & Mrs. S. E.  
Kelley, Mary F.  
Kelley, Mike  
Kelley, Winifred B.  
Kellogg, Mrs. Gary  
Kelly, Anthony J.
- 2 Kelly, Frank J.  
Kenley, Homer
- 2 Kennedy, Edwin L.  
Kerby, Dale  
Kerstein, Mrs. H. D.  
Kessen, Ben
- 7 Kettering, Eunice Lea  
Keyes, C. Dale
- 3 Keyohara, Strail  
Kierman, Kerry
- 2 Kiley, Mr. & Mrs. J. Louis  
Kilgore, Lee  
Killorin, J. E.  
Kilpatrick, Mrs. Jack  
Kimbball, Mr. & Mrs. George
- 2 Kimball, Viola  
Kimble, Mrs. Beulah K.
- 7 King, Mr. & Mrs. David W.  
King, E. W.  
Kingsley, Mr. & Mrs. Philip F.  
Kinney, Mr. & Mrs. James E.  
Kinsella, Paul S.
- 2 Kintzinger, Paul R.
- 5 Klous, Mr. & Mrs. Lee
- 8 Kirby, Mr. & Mrs. Don R.  
Kirch, Dr. Max S.  
Kircher, Mr. & Mrs. T. E.  
Kirkpatrick, Mrs. Alice
- 2 Kirkpatrick, Mr. & Mrs. Fred W.  
Kirley, Rev. Kevin J.  
Klausner, Mr. & Mrs. Stanley  
Klein, Mr. & Mrs. Karl  
Kleinfeld, Mrs. Jack  
Klingner, Mary  
Kneeland, Charles A.  
Knight, Jan C. S.  
Knight, Patty  
Koch, James A., M.D.  
Koenig, Mr. & Mrs. Karl G.
- 2 Kosicki, Dr. & Mrs. Zigmund W.  
Koury, Alex  
Koury, Mr. & Mrs. David  
Kramer, Carveth V.  
Kramer, George
- 5 Kramer, Harry
- 2 Krauss, N. L. H.
- 2 Krebbiel, Adolf  
Krezowski, Thomas K., M.D.
- 3 Kroening, Bill
- 2 Kroening, H. Frank
- Kropp, Sarah S.  
Krushnell, Mrs. Ruth
- 2 Kuehne, Ray  
Kueppers, Mrs. Fred
- 3 Kundrat, William
- 5 Kurtz, Chester M., M.D.  
Lacour, Manuel, Jr.
- 4 LaFollette, Mr. & Mrs. Robert H.
- 4 LaFon, Mr. & Mrs. J. L.  
Laley, Michael C.  
Landy, Lino  
Lanford, Ben
- 9 Lang, C. Thompson
- 2 Larsen, Mr. & Mrs. Roy W.  
Latham, Michael
- 3 Lattanza, Roger  
Lawler, James H. L.  
Lawrence, Mr. & Mrs. William H.  
Lawson, Dr. & Mrs. F. D.  
Layman, Douglas C., M.D.  
Lazarus, Fred, Jr.  
Leahy, Maureen E.  
Legg, Marguerite K.
- 2 Lehman, Herman O., M.D.  
Leibman, Mrs. G.  
Leishman, William
- 3 Lemon, Ogle T.  
Leonard, Dr. Calista V.
- 3 Leonard, Gary H.  
Leppre, Jan  
Lesley, Mr. & Mrs. Tom
- 2 Lesser, Mrs. Lillian
- 3 Lesser, Dr. & Mrs. Matthew B.
- 5 Levick, Arnold, D.D.S.
- 5 Levin, Dr. & Mrs. Louis  
Levitt, Nancy
- 2 Lewellen, Philip
- 2 Lewis, Dr. & Mrs. Edward S.  
Lewis, Mr. & Mrs. Henry  
Leyba, Dr. Lawrence
- 5 Liberman, Mrs. Maurice  
Lightle, Mr. & Mrs. Paul C.  
Line, Mr. & Mrs. Ralph M.
- 5 Lipman, Allen I.  
Little, Judy  
Little, Selina F.
- 2 Lloyd, Cecil  
Lodin, George
- 2 Loe, Chester A.  
Loeffler, Gisella  
Londun, Michael  
Long, Joseph  
Longwill, Mrs. Myrna  
Loomis, Sylvia  
Lopez, Mr. & Mrs. Juan C.  
Lopez, Owen  
Lord, Isabei
- 3 Loreda, Jose R.
- 2 Lorentzen, Dr. & Mrs. E. J.
- 2 Lormor, Donald
- 3 Love, Oscar M., Sr.
- 2 Lovelady, Mr. & Mrs. Wayne
- 3 Lovett, Mr. & Mrs. Austin D.  
Lowenberg, Mr. & Mrs. Robert B.
- 2 Lowenstein, Dr. & Mrs. Bernard
- 2 Lucia, Salvatore Pablo, M.D.  
Luker, Becky  
Lusher, Lester A.
- 3 Maak, Charles H.  
MacCurdy, Mark  
MacGregor, John M.  
Machen, Mr. & Mrs. Stephen M.  
MacKay, Mr. & Mrs. John S.  
Mackler, Abraham
- 2 Madanick, Michael  
Mader, Howard
- 3 Madrid, Bernie  
Maes, G. A. D.  
Maguire, Bob
- 2 Mahoney, Patrick
- 2 Maisel, Mrs. Cyma
- 3 Maisel, Mrs. Edith
- 3 Maisel, Mr. & Mrs. S. L.  
Maker, L. L., M.D.  
Malette, Lila M.  
Maloney, Mary Frances  
Maloof Family  
Mandeville, Carol  
Manganaro, R. A., M.D.
- 5 Mapel, Frank A.  
Marjon, Louis  
Mark, Margaret  
Marron, Sheran
- 3 Marsh, James G.  
Marshall, Michael
- 2 Martin, Mr. & Mrs. Guy V.  
Martin, Phillip A.  
Martinez, Joseph R.
- 3 Martinez, M. A.  
Martinez, Robert J.  
Mather, Mr. & Mrs. Ralph J.
- 2 Mather, Richard F.
- 3 Matteucci, Mr. & Mrs. Pete, Jr.  
Matteucci, Mr. & Mrs. Pete  
Matteucci, Richard C.
- 6 Maxwell, Gilbert S.  
Mayfield, Bobby M.
- 5 Maynard, Mr. & Mrs. Curtis G.  
Mazhar, M., M.D.  
McArdle, H. Roy  
McCallum, Mr. & Mrs. Robert E.
- 7 McCarthy, Mr. & Mrs. Fred M.  
McCarthy, Mr. & Mrs. J. Daniel
- 2 McCauley, Mr. & Mrs. Gary R.  
McClain, David E.  
McClain, Sarah F.

- 2 McCloskey, Dr. Elinor  
 McClure, Florence E.  
 2 McCollum, Mr. & Mrs. W. A.  
 4 McCormick, Don G.  
 McCormick, Virgil K., D.D.S.  
 2 McCulloch, John C., M.D.  
 7 McCulloch, Mr. & Mrs. Silas A.  
 2 McDonald, O. D.  
 2 McDonnell, Gerald  
 McEntire, Dennis R.  
 McFadden, Mr. & Mrs. Winfield B.  
 4 McGill, John F.  
 McGinley, Mrs. Martha  
 McGorty, Jim  
 McGough, David A.  
 3 McGuckin, Dr. & Mrs. James T.  
 McHenry, P. G., Jr.  
 McKee, Harley J.  
 McKee, Lloyd  
 McKee, Richard  
 McKenna, Timothy  
 McKenney, John F.  
 McKierman, Mr. & Mrs. John  
 McKinley, William H.  
 McLain, Mr. & Mrs. R. A.  
 McLaughlin, John  
 4 McLeod, Mrs. Lois L.  
 McMullan, Thomas  
 6 McNeely, J. R.  
 McNeely, H. G., Jr.  
 McPherson, Arthur, Jr.  
 McRae, Mrs. Louis A.  
 McSweeney, Mrs. Kathleen  
 McWilliams, D. D.  
 2 Mechem, Judge E. L.  
 Medved, Mr. & Mrs. Harold W., Jr.  
 8 Meem, Mr. & Mrs. John G.  
 Meigs, Mr. & Mrs. P. F.  
 2 Melloy, Robert E.  
 Meloy, Marlene  
 3 Mendelsberg, Jack  
 Menicucci, Charles R.  
 3 Mera, Mrs. Frank E.  
 2 Merlan, Mrs. Wilma Brum  
 Merrill, Frederick H.  
 Merritt, Mrs. Mary D.  
 4 Merson, Mrs. Jean L.  
 Meyer, Mrs. Beatrice I.  
 3 Michael, Robert  
 Michalscheck, Eva  
 Middlesworth, Keith  
 Miera, M. F.  
 Miller, Arthur  
 Miller, Mr. & Mrs. Carlton  
 Miller, Carol  
 4 Miller, Darrel L.  
 Miller, Dixie  
 Miller, Harold S.  
 Miller, Dr. & Mrs. James V.  
 3 Miller, Mrs. Kathleen P.  
 2 Miller, Mr. & Mrs. Marvin H.  
 Miller, Maureen  
 3 Miller, Maynard  
 3 Miller, Mrs. Mollie C.  
 Milling, Mrs. James A.  
 Mills, Larry  
 2 Millspaw, Robert, D.D.S.  
 8 Minces, Sam A.  
 Minear, W. L., M.D.  
 Minton, Maj. R. W.  
 Mitchell, Katie  
 2 Moedl, Karl R.  
 Moffat, W. T.  
 2 Moise, Irwin S.  
 2 Moise, Jack  
 Mole, Michael  
 Montgomery, John L., D.O.  
 Montgomery, Seth  
 3 Montoya, Sen. Joseph  
 Moore, Bruce B.  
 Moore, Jimi S.  
 2 Moraga, Mrs. Mary A.  
 Morgan, Doris J.  
 Morgan, Margaret  
 Morier, Sara  
 2 Morin, Gerard  
 Morris, Katherine  
 2 Mortenson, Jeffrey  
 Morton, Nancy A.  
 Morton, E. E.  
 Moulton, Mrs. Carl R.  
 Mount, Mr. & Mrs. Earl S.  
 Mounteford, Mrs. Fannie  
 2 Moyer, Mrs. Dorothy  
 Moyers, William  
 Mullan, Read  
 Mullaney, Mr. & Mrs. Frank C.  
 Mullins, Lynn H.  
 2 Mullins, Ross  
 Murphy, Mr. & Mrs. Edward L., Jr.  
 3 Murphy, Dr. & Mrs. John C.  
 Murray, Charles A.  
 Murray, Mrs. Leonard A.  
 9 Musgrave, Dr. & Mrs. Homer S.  
 Nachbar, Mr. & Mrs. Lawrence  
 Nalle, Mr. & Mrs. Jesse  
 3 Nance, Virginia  
 Nash, Kermit  
 2 Naughton, Jean P.  
 Neff, Daniel E.  
 Nelman, Mr. & Mrs. Jack  
 Nelson, Mr. & Mrs. C. O.  
 Nelson, Mrs. Laurie  
 2 Nelson, Mrs. Mary C.  
 Nelson, Sam  
 3 Nesbit, Bryon E.  
 3 Neuer, John J., Jr.  
 Neufeldt, A. R.  
 Newsom, Mickey B.  
 4 Newsome, Dr. & Mrs. James A.  
 9 Nichols, Dr. Madaline  
 Nielsen, Mr. & Mrs. William F.  
 Nielson, Mrs. J. F., Jr.  
 Nielson, R. E.  
 Nielson, Thomas  
 Nilsson, Mr. & Mrs. Norbert E.  
 2 Nix, E. L.  
 Nixon, Mr. & Mrs. J. W.  
 5 Nordberg, Harry D., D.D.S.  
 5 Nordfeldt, Mrs. Emily A.  
 Norris, Mr. & Mrs. William C.  
 Northrop, Mrs. Eugene P.  
 3 Noskin, Jerome H., D.D.S.  
 Noskin, Paul L.  
 Nunes, Mrs. Anne M.  
 Nutt, Mary J.  
 2 Oates, James D., M.D.  
 2 O'Brien, John C.  
 Obst, Mr. & Mrs. Robert E.  
 Ocampo, Raul  
 O'Connor, Mrs. John  
 3 O'Dell, Boyd L.  
 O'Dell, Kenneth  
 O'Gorman, James F.  
 O'Kane, Dr. & Mrs. Thomas W.  
 Olsen, Richard L.  
 Olson, Mr. & Mrs. William J.  
 4 Oman, Lafel E.  
 Omeregic, N. S. P.  
 O'Neill, James P.  
 3 Ormonde, Stephan  
 O'Rourke, Mrs. Paul S.  
 Ortiz, Rudy A.  
 O'Shaughnessy, Donald E.  
 O'Shaughnessy, Jim  
 O'Shaughnessy, Mr. & Mrs. Lawrence  
 O'Shea, Mr. & Mrs. Brian  
 Overbury, Mr. & Mrs. Kenneth G.  
 3 Owen, Mr. & Mrs. Roy  
 2 Padon, James C.  
 Paine, Judy  
 Pajunen, Eino  
 Palacios, Nicolas  
 2 Palmer, C. L.  
 Papike, Richard N.  
 Park, Veronica L.  
 Parker, Bruce, M.D.  
 Parker, James A.  
 10 Parker, Leonard A. B.  
 2 Parker, Robert, D.V.M.  
 3 Parkes, Harry  
 Parrish, Lamar  
 Pas, Mr. & Mrs. Richard  
 3 Patrick, Mr. & Mrs. Richard

- Patterson, Mrs. Alice R.  
 Patterson, Fred E., M.D.  
 Patterson, James R.  
 Patterson, William  
 Payne, Mr. & Mrs. Kenneth  
 Payne, Vern  
 2 Pearl, George C.  
 Peck, Mrs. Walter  
 Peck, James M.  
 Perkins, Lois  
 Perry, Mr. & Mrs. Lee  
 2 Persichetti, Mr. & Mrs. C. H.  
 Peters, Ralph F.  
 Pfefferkorn, D.  
 Philgreen, Floyd A.  
 Phillippi, Mr. & Mrs. Matthew  
 Phillips, C. D., M.D.  
 Phillips, Howard C.  
 8 Phillips, Mrs. Leonard G.  
 Phillips, Richard H.  
 2 Pickett, Charles D., M.D.  
 Pickle, Rosita  
 Pierce, B. J.  
 Pierce, Mr. & Mrs. Lawrence P.  
 Pine, Mrs. Max  
 Pitts, George B.  
 Platt, Mr. & Mrs. Laurence  
 Platte, Richard  
 Plunkett, Mr. & Mrs. R. W.  
 Polk, Clifford P., Jr.  
 Polk, William M.  
 Pollack, Max  
 Pollard, Walter S.  
 Polson, Mr. & Mrs. A. S.  
 Pomodoro, Arnaldo  
 3 Pond, Norman E., M.D.  
 Pongetti, J. Victor  
 4 Poole, Mr. & Mrs. Robert C.  
 5 Poole, Mrs. Rufus G.  
 3 Poorman, Mr. & Mrs. Ralph U.  
 Powell, Mr. & Mrs. Ben F.  
 Prather, Billye  
 Prentice, John  
 Prewitt, James F.  
 2 Price, Mr. & Mrs. Dudley J.  
 Price, L. H.  
 Price, Marvin L.  
 Price, Mike  
 Prince, Douglas  
 Prince, Mr. & Mrs. Kimball  
 Propps, O. D.  
 Provost, George  
 Pruitt, Gladys R.  
 Prunier, Mrs. Angeles M.  
 Puffer, Kathleen M.  
 Puleo, Mr. & Mrs. Joseph J.  
 Pylo, Raygen A.  
 Pyne, James A.  
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- 7 General Electric Co.
- 10 General Motors Corp.
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- Gregg International Publishers
- 2 Gulf General Atomic, Inc.
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- Inter Culture Associates
- 8 International Business Machines Corp.
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- John Wiley & Sons
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- Restoration Enterprises

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6 Schering Corp.  
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Olin Templin

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ABC Life
- 2 Aetna Life Insurance Co.
- 4 Aiken Letter Shop
- 9 Alrco Supply Co.
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- 7 Albuquerque Federal Savings &  
Loan Assn.
- 10 Albuquerque Gravel Products Co.
- 3 Albuquerque Insurors
- 10 Albuquerque Journal
- 5 Albuquerque Lumber Co.
- 10 Albuquerque National Bank
- 3 Albuquerque Publishing Co.
- Albuquerque Tribune
- Albuquerque Visitor &  
Convention Center
- 3 All Points Movers
- American Cigar Co.
- 9 American Furniture Co.
- 5 American Linen Supply
- 3 American Savings & Loan Assn.
- Anderson Oil Co.
- Animal Medical Clinic
- Architecture Systems
- Armstrong Building Maint.
- Arrow Freight
- Aut-O-Kar Wash Dist.
- Bandelier Films, Inc.
- 10 Bank of New Mexico
- 5 Beck News Agency
- Belf Insurance Agency
- Bell Company, Inc.
- 3 Bellas Hess
- 9 Berger, Briggs Real Estate &  
Insurance, Inc.
- 3 Best Moulding Corp.
- 3 Bill J. Shelton & Assoc.
- Bill Turbett Gen. Agency
- Blake's Hamburgers
- 2 Blueher Lumber Co.
- 6 Boehning & Fernandez, AIA
- 5 Border Machinery Co.
- 9 Bradbury & Stamm Construction Co.
- 10 Bridgers & Paxton Consulting  
Engineers, Inc.
- Brown Realty
- 8 Budget Rent-a-car
- Burgett Wholesale Floral Co.
- 4 Burke Concrete
- 3 Burke's Prescription Center
- 4 Burley Burns Insurance
- Brunacini Realty
- 4 Butterfield Jewelers
- 3 Cain's Coffee Co.
- 3 Caird-Norris Realty
- 5 Campbell Drug Store
- Capital Development Corp.
- Capitol Ford Sales
- 2 Cauwells & Davis, Inc.
- 4 Central Dental Lab.
- 2 Chambers, Campbell, Isaacson & Chapin
- Chapman Enterprises
- Charla-Jon Restaurant
- 2 Ciba Pharmaceutical Corp.
- 6 Citizens State Bank of Albuquerque
- 5 Climate Equipment & Dist. Co.
- 10 Clinton P. Anderson Agency
- 9 Coca Cola Bottling  
Co-Con, Inc.
- 2 Combined Insurance Co. of America
- 2 Commercial Office Supply
- Coors Road Conaco
- 2 Cotter & Campbell
- 5 Creamland Dairies, Inc.
- 2 Custom Craft Fixtures
- 3 Customwood Mfg. Co.
- 8 C. Woodrow Wilson Pharmacy
- Dailey-Haworth Realty
- 5 Dale Bellamah Homes
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- Del Norte Animal Clinic
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- 2 Doherty & Co.
- Domenici, Bonham, Attys.
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- Duke City Meat Co.
- Dusty Rhoades Corp.
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- 6 Ed Black's Chevrolet Center
- 2 E. F. Hutton & Co., Inc.
- 2 E.G.&G., Inc.
- Environmental Collaborative
- Ernst & Ernst
- 10 Excelsior Laundry
- Fair Plaza Enco
- Fashion Two-Twenty, New Mexico
- Fidelity Union Life
- 2 Financial Planners, Inc.
- First American Title
- 10 First National Bank
- 2 First National Bank, Grants
- 10 First National Bank, Santa Fe
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- 7 Flatow, Moore, Bryan & Fairburn
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- 9 J. C. Penney Co.  
Jemez Mountains Electric Coop.
- 4 J. F. McGill Contracting Co.
- 4 J-H Supply Co.
- 9 Jill's, Inc.
- 2 J. Korber & Co.  
Joe F. Fritz & Co.
- 10 Joe G. Maloof & Co.
- 9 J. W. Jones Construction Co.
- 3 Kayson Mfg. Co. Inc.
- Keith & Thompson  
Kenneth P. Thompson Co.  
Ker-Lin Homes
- 7 Kinney Agency, Inc.
- 10 Kinney Brick Co.
- 8 Kinsella Glass Co.
- 7 Kistler-Collister
- 2 Kit Carson Electrical Coop.
- 3 Knight and Sullivan, Attys.
- 5 KOB Radio & Television
- 3 Kool, Kool & Bloomfield  
La Placita Dining Rooms
- 4 Laun-dry Supply Co., Inc.  
Lawrence A. Garcia & Assoc.
- 3 Lawyers Title Insurance Corp.  
Layton's Appliance Service
- 8 Lembke Construction Co.
- 6 Leonard Tire Co.
- 3 Les File Dri Wall, Inc.
- 10 L. H. Chant Electric
- 8 Lively Equipment Co.
- 4 Lloyd McKee Motors  
Lobo Engine Rebuilders
- 2 Lomas Paint & Body Shop  
Long & Waters  
Los Patios, Inc.
- 5 Lou Gerding Agency  
Louis L. Weller
- 5 Manzano Animal Clinic
- 4 Marron, Houk & McKinnon
- 7 Master Cleaners
- 6 McAtee, Marchiondo & Berry
- 8 McDonald Electric  
McDonalds Drive Inn's
- 3 Melloy Brothers Motor Co.
- 2 Menig, Sager & Curran, Attys.  
Merrill, Lynch, Pierce, Fenner  
& Smith, Inc.
- 3 Mesa Electric Co.  
Metro 70's  
Metropolitan Life  
Mission Inn
- 10 Modrall, Seymour, Sperling,  
Roehl & Harris
- 2 Montgomery, Federici, Andrews,  
Hannahs & Morris
- 8 Montgomery Ward & Co.
- 7 Mortgage Investment Co.
- 4 Mossman-Gladden
- 6 Mountain States Insurors, Inc.
- 6 Mountain State Investment Corp.
- 10 Mountain Bell
- 9 Murdock Brokerage Co.  
Mutual Benefit Life
- 5 Mutual Building & Loan
- 7 Music Mart
- 5 M & W Sporting Goods Co.
- 5 N. C. Ribble Co.



- 4 Neely Sales  
 3 Neff & Co., CPA  
 4 Nesco Construction Co.  
   New Breed  
 5 New England Mutual Life Ins.  
 10 New Mexico Title Co.  
 6 Nordhaus & Moses, Attys.  
 2 Northwestern Mutual Life Insurance  
   Old Town Car Wash  
 2 Padon Insurance  
 10 Paris Shoe Store-Downtown  
   Paris Shoe Store  
   Paul Revere Life  
 9 Peat, Marwick, Mitchell & Co.  
 7 Peter F. McCanna & Co.  
   P. F. Collier, Inc.  
 2 Philip Hubbell Real Estate  
   Phoenix Companies  
   Pickett & Leyba  
   Pizza Hut, Inc.  
 2 Plateau Supply, Inc.  
   Plaza Liquors  
 9 Pooler Agency  
 4 Prestressed Concrete Products, Inc.  
 4 Price's Valley Gold Dairies  
   Price Waterhouse  
   Provoost Construction  
 9 Public Service Co. of NM  
 2 Quality Pontiac  
 9 Quinn & Co.  
   Ralph Walker Agency  
 2 Ranchers Exploration &  
   Development Corp.  
   Rauscher, Pierce Securities Corp.  
   Rhodes, McCallister, Attys.  
 9 Richard Distributing Co.  
 8 Richardson Ford Sales  
 2 Rio Grande Press, Inc.  
 7 Rio Grande Steel Co.  
 2 Rio Grande Title Co.  
 3 Rio Rancho Estates  
   Roadrunner Research, Ltd.  
 9 Rodey, Dickason, Sloan, Akin  
   & Robb, Attys.  
 2 Roger Cox & Associated Realtors  
 2 Rogers Electric Co.  
   Rose & Johnson  
 2 Rosenberg & Blender  
   Roswell State Bank  
 2 Rowley, Hammond, Murphy &  
   Rowley  
 3 Royal Crown Bottling Corp.  
 2 Russ Realty  
 10 Rust Tractor Co.  
 3 Rutledge Linen Co.  
   Sanchez Construction Co.  
 2 Sandia Animal Clinic  
 2 Sandia Auto Electric  
 3 Sandia Corp.  
   Sandia Peak Tram  
 5 Sandia Savings & Loan Assn.  
 8 Sanitary Laundry, Inc.  
 2 Sands Opticians  
 9 Santa Fe Motor Co.  
 10 Savage & Sganzi  
 3 Save-Way Liquors, Store #1  
 5 Save-Way Liquors, Store #2  
 2 Schwartzman Packing Co.  
 2 Scotch & Sirlain  
 4 Security Federal Savings  
 4 Security Homes, Inc.  
 3 Seligman, Shortle & Johns  
 7 Seligman, Thomas & Faber  
 3 Seven Bar Flying Service  
 9 Seven-Up Bottling Co.  
 7 Shaffer, Butt & Boss  
 4 Sheehan, Duhigg, Smith & Cronin  
   Silver Dollar Pawn Shop  
   Simonson Cycle Shop Co.  
   Singer-Friden  
 4 Smith, Ransom & Deaton, Attys.  
   Solomon & Roth, Attys.  
 10 Southern Union Gas Co.  
 3 Southwest Insurance Agency  
   Southwestern Life  
 4 Spencer and Co.  
 9 Springer Corp.  
 5 Stadium Liquors  
   Stan Ulrich Insurance Agency  
   Starline Corp.  
   State Agency, Inc.  
 5 State Distributors Co.  
   Stoller, Miller, Swanwick & Co.  
 7 Stromberg's Men's Shop  
 7 Strong-Thorne Mortuary  
 3 Sunset Inn  
 6 Sutin, Thayer, Brown  
 4 Swift & Co.  
   Taylor, Layman & Broderick  
 10 Ted Boyd Co.  
   Teeter & Assn.  
   Tharp, Tharp & Williams, Attys.  
   The Shed  
   Total Business Systems  
 5 Toulouse, Moore & Walters  
 7 Tri-State Dental Supply Co.  
   Trotz Construction  
   UARCO, Inc.  
 7 United Wholesale Liquor Co.  
 6 Universal Constructors, Inc.  
 8 University Bookstore  
   Ussery, Burciaga & Parrish  
 10 Van Landingham Agency  
   Vernon Realty  
 5 Village Inn Pancake House  
 4 Vips Big Boy

Walker, Hart & Laffin, Attys.  
3 Ward Hicks Advertising  
3 Warren Graham, Inc.  
7 W. C. Kruger Foundation  
Weaver Construction Co.  
2 Wellborn Paint Manufacturing Co.  
West Land Leasing Co.  
3 Western Skies Chevron  
3 Westland Corp.  
West Mesa Chevron  
Western Assurance & Realty

Western American Life Insurance  
Western Trail  
5 Wheeler Construction Co., Inc.  
3 White Winrock Hotel  
Wilcot Construction Co.  
5 Winrock Development Co.  
6 Winrock Merchants Assn.  
4 W. M. Carroll & Co.  
10 Wylie Bros. Contracting Co.  
8 Yearout Electric Co., Inc.  
Yearout Plumbing

## ORGANIZATIONS

- AF & AM Lodge  
 AF & AM-Lake Arthur  
 AF & AM-Vaughn, NM  
 AF & AM-Temple Lodge  
 Air Force Aid Society  
 Air Force Central Welfare Fund  
 Albuquerque Academy of Medicine  
 Albuquerque & Bernalillo County Medical Assn.  
 Albuquerque City Panhellenic  
 Albuquerque Classroom Teachers Assn.  
 Albuquerque Food Service Assn.  
 Albuquerque High School-Faculty & Staff  
 Albuquerque Home Economics Club  
 Albuquerque Music Teachers Assn.  
 Albuquerque Rotary Club  
 Alpha Delta Kappa, Gamma Chpt.  
 Alpha Omega Alpha #111  
 Alumni Assn. Educational Services  
 American Assn. For Higher Education  
 American Assn. of University Women—  
   Albuquerque Chapter  
 American Assn. of University Women-Duran  
 American Automobile Assn.  
 American Board of Radiology  
 American Business Women's Assn.-  
   El Canto Chapter  
 American Business Women's Assn.-  
   El Segundo Chapter  
 American Cancer Society  
 American Chemical Society  
 American Civil Liberties Union  
 American College Health Assn.  
 American Committee for the  
   Welzmann Institute of Science  
 American Dental Hygiene Assn.  
 American Federation of Labor &  
   Congress of Industrial Organizations  
 American Fisheries Society  
 American G.I. Forum-Garden City  
 American G.I. Forum of New Mexico  
 American Helicopter Society  
 American Home Economic Assn.-  
   College Chapter  
 American Iron & Steel Institute  
 American Latvian Assn. in the U.S.  
 American Legion Auxillary-Dept. of NM  
 American Legion, Post #49  
 American Legion Post #99  
 American Management Assn., Inc.  
 American Medical Assn.  
 American Ordnance Assn. Award  
 American Soc. of Planning Officials  
 American Soc. for Quality Control  
 Americans for Justice in the Middle East  
 Americans for Middle East Understanding, Inc.  
 Anti-Defamation League of B'nai Brith  
 Armed Forces Communications and Electronics Assn.  
 Associated General Contractors of America  
 Assn. on American Indian Affairs, Inc.  
 Assn. of American Medical Colleges  
 Assn. for Childhood Educational International  
 Assn. for Supervision & Curriculum Development  
 Assn. for Student Teaching  
 BPOE-National  
 BPOE-#461 Albuquerque  
 BPOE-#1440 Gallup  
 Beta Sigma Phi-City Council  
 Better Business Bureau  
 Board of Christian Education  
 Bowling Proprietors Assn. of America  
 Canadian Heath Assn.  
 Chi Omega Alumnae  
 China Medical Board of New York  
 Committee for Economic Development  
 Conquistadores  
 Corps of Engineers  
 Coast Guard Welfare Board of Control  
 Council for Tobacco Research  
 Croation Fraternal Union  
 D.A.R.-Albuquerque Chapter  
 Daughters of the Cincinnati  
 Daughters of Penelope  
 Fine Arts Student Club  
 First United Methodist Church-Gallup  
 40 & 8 Grand Voiture  
 Friends of Art  
 Friends of Charles P. Snyder  
 Friends of Clara Grotta  
 Friends of the College of Nursing  
 Friends of Music, Inc.  
 Gallup-McKinley Educational Secretaries Assn.  
 Grand Canyon Natural History Assn.  
 Greater Albuquerque Chamber of Commerce  
 Greater Cleveland Growth Assn.  
 Guideposts Assn.  
 Highland High School French Club  
 Hoe Handlers Garden Club  
 Hong Kong Tourist Assn.  
 Horn Oil Office Employees  
 Indian Council of Medical Research  
 Indian Health Service  
 Industrial Relations Research Assn.  
 International Order of King's Daughters & Sons  
 International Reading Assn.  
 Kappa Kappa Gamma Alumnae, Alpha  
 Kappa Kappa Iota-Beta Conclave  
 Kirtland Officers Wives Club  
 Law Students Civil Rights Research Council  
 Leukemia Society of America  
 Lions Club-Albuquerque Host  
 Lions Club-Albuquerque Downtown Chapter  
 Lions Club-Lordsburg

Lions Club-Rio Grande	New Mexico Society of Architects
Marine Officer's Volunteer Training Unit	New Mexico Society of Certified Public Accountants
Mid-Rio Grande Health Planning Council	New Mexico Veterans Service Committee
Military Order of World Wars	Northwestern New Mexico Regional Science Fair
Miss New Mexico Pageant	Omega Psi Phi Fraternity
Mozart Junior Music Club	Operations Research Society of America
Mu Phi Epsilon-Albuquerque Alumnae Chapter	Pan American Sanitary Bureau
N.C.O. Wives Club-Rhine-Main AFB	Pan American Stewardess College-Florida
N.C.O. Wives Club-Ft. Hood, Texas	Panhellenic Assn. of Santa Fe
National Assn. of Elementary School Principals	Pharmacy Alumni Assn. of Albuquerque
National Assn. of Secondary School Principals	Phi Lambda Theta-Albuquerque Chapter
National Auto & Truck Wreckers Assn.	Pi Tau Sigma
National Bureau of Economic Research	Planned Parenthood Assn.
National Education Assn.	Railway Assn.
National Health Council	Reserve Officer's Assn.
National Industrial Conference Board	Retired Officers' Assn.
National Merit Scholarship	Sandia Officers Wives Club
National Planning Assn.	Saskatchewan Roughrider Club
National Research Council	Scientific Advisory Council
National Society of Professional Engineers- Albuquerque	Sigma Alpha Iota Patronesses
Navy Relief Society-Education Fund	Society for Individual Rights
New Mexico Allied Drug Traveler's Assn.	Society of Sigma XI
New Mexico Assn. of Independent Insurance Agents, Inc.	Sons of the American Revolution
New Mexico Capital Stock Insurance Assn.	United Scholarship Service for American Indian Students
New Mexico Elks Club	University Golfers Assn.
Cerebral Palsy Commission	UNM Lettermen's Club
New Mexico Federation of Music Clubs	UNM Pharmacy Alumni Assn.
New Mexico Federation Scholarship Fund	Universities Research Assn., Inc.
New Mexico Folklore Society	US Corps of Engineers Wives' Club
New Mexico High School Coaches Assn.	US Ski Assn.-Rocky Mountain Division
New Mexico Iris Society	Western Orthopedic Assn.
New Mexico Lathing & Plastering Contractors	Women's Auxiliary of New Mexico Pharmaceutical
New Mexico Medical Society	Women's Club of Albuquerque
New Mexico Retail Assn.	Women's Club of Prearkness
	Women's Council-Albuquerque Board of Realtors
	World Health Organization

*Education is not given for the purpose  
of earning a living; it's learning what  
to do with a living after you earn it. —*

Abraham Lincoln

### DO YOU HAVE A WILL?

If not, may we suggest that you have your attorney prepare one to insure the orderly distribution of your life's work in accordance with your desires.

May we further suggest that you give consideration to a bequest to The University of New Mexico.

Such a bequest, regardless of its size, would:

1. Provide valuable assistance to UNM.
2. Be a lasting and fitting memorial to you and/or someone dear to you.
3. Be free of tax, and excluded from the top bracket to be taxed.

Other ways to help higher education, research, and public service through the Greater UNM Fund.

1. Donations of cash.
2. Contributions of investment securities often offer tax advantages.
3. Gifts of land, personal property, book collections, art objects, etc., are frequently of great value to UNM.
4. Encourage other friends and alumni to follow your good example of contributing to the annual Fund.

The Development Office stands ready to offer assistance to you or to your attorney or to your financial adviser in matters concerning gifts or bequests to the University of New Mexico.

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Popejoy Hall  
The University of New Mexico  
Annual Report 1970-71  
William J. Martin, Director

Popejoy Hall was in use 293 days during fiscal 1970-71 and presented 153 programs to an overall attendance of 130,000. A list of programs and rehearsals is attached:

Popejoy Hall Staff includes the following:

William J. Martin	Director
Georg W. Schreiber	Technical Director
Jayne P. Lund	Adminis. Secretary
Nancy Bower	Cashier
Maria Bakas	Cashier
10 Students	Stage Crew
2 Students	Part-time Box Office help
1 Student	Clerk-typist, part-time
24 Students	Usherettes

Popejoy Hall and the Cultural Committee of the Associated Students continued the joint arrangement whereby student fees (\$25,000.00) were applied to offset a portion of the costs of programming. In return, members of the student body were offered the opportunity to subscribe to the programs at a 75% discount, and to purchase tickets to non-subscriber events at one half price. The programs thus jointly sponsored are listed in the attached statement. Total discount tickets issued to students were 14,500 ( up from 13,000 of last year) and valued at \$35,000.00 (up from \$32,650.00)

Gross ticket sales to all events	\$153,559.03
Gross revenue from rents & service chgs	<u>65,143.42</u>
Total gross revenue	\$218,602.45
Gross cost of opera (including programs)	\$226,028.49
Operating Loss	<u>- 7,426.04</u>

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The University of New Mexico  
Popejoy Hall  
Annual Report 1970-71  
William J. Martin, Director

The Albuquerque Opera Guild again sponsored three musicals on their second nights. This benefit produced about \$11,000.00 in sales. The Sponsors received about \$1,000.00 for their efforts.

The stage crew continued to maintain the equipment in the Recital Hall (now Keller Hall) of the Fine Arts Center. Approximately \$800. in labor was applied.

The Cultural Committee of the Associated Students was satisfied with the co-sponsorship arrangement and decided to continue the arrangement for another year. The Committee requested \$29,000.00 for fiscal 1971-72 and the Senate approved an amount of \$25,000.00 but the budget has not yet been approved by the student body. The Cultural Program Committee also approved the schedule of events attached.

## POPEJOY HALL

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PROGRAMS FROM JULY 1, 1970 through  
JUNE 30, 1971

July, 1970

9	UNM School of Law - Rocky Mtn. Mineral Law Inst.	8:00 a.m.
17	Albuq. Civic Light Opera - Guys And Dolls - rehearsal	8:15 p.m.
18	" " " " " " " "	8:15 p.m.
19	" " " " " " " "	8:15 p.m.
24	" " " " " " " " performance	2:15 p.m.
24	" " " " " " " "	8:15 p.m.
25	" " " " " " " "	2:15 p.m.
25	" " " " " " " "	8:15 p.m.
26	" " " " " " " "	8:15 p.m.
29	Department of Music - UNM Band Concert performance	8:15 p.m.
29	Ballet West - rehearsal	2:15 p.m.
30	" " " " " " " "	8:15 p.m.
31	" " " " " " " "	8:15 p.m.

August, 1970

1	Ballet West - rehearsal	8:15 p.m.
2	" " " " " " " "	8:15 p.m.
3	" " " " " " " "	8:15 p.m.
4	" " " " " " " "	8:15 p.m.
5	" " " " " " " "	8:15 p.m.
6	" " " " " " " "	8:15 p.m.
7	" " " " " " " " performance	8:15 p.m.
18	Albuq. Civic Light Opera - Oliver - rehearsal	8:15 p.m.
19	" " " " " " " "	8:15 p.m.
20	" " " " " " " "	8:15 p.m.
21	" " " " " " " " performance	8:15 p.m.
22	" " " " " " " "	8:15 p.m.
23	" " " " " " " "	2:15 p.m.
24	Chicano Studies Program - Teatro Campasino - rehearsal	2:00-6:00 p.m.
24	" " " " " " " " performance	8:15 p.m.
28	Albq. Civic Light Opera - Oliver - performance	8:15 p.m.
29	" " " " " " " "	8:15 p.m.
30	" " " " " " " "	2:15 p.m.

September, 1970

2	Asso. Students UNM - Freshman Orientation - rehearsal	1:30-3:30 p.m.
8	" " " " " " " " performance	7:30-11:00 p.m.
19	UNM Dept. of Guidance & Special Ed. - Dr. Bettelheim	8:00-12:00 a.m.
22	Popejoy Hall & Cul. Comm. of Asso. Students - Villella	8:15 p.m.
24	Classics Theater - Merchant of Venice	2:15 p.m.
25	" " " " " " " "	2:15 p.m.
26	" " " " " " " "	2:15 p.m.



Page 2  
 Popejoy Hall Programs  
 1970 - 1971

October, 1970

3	Albq. Public Schools & Music Dept. - UNM - Albq. Youth Symphony	8:00 a.m.
4	" " " " " " " "	3:00 p.m.
5	Cultural Exchange Program - Grupe de Danza Chihuahua - rehearsal	7:00 p.m.
6	" " " " " " " "	- performance 5:30 p.m.
7	Popejoy Hall & Sandia Kiwanis - Russia - Francisco - performance	6:30 p.m.
11	Cultural Program Committee - George M. - performance	8:15 p.m.
12	" " " " " " " "	8:15 p.m.
15	Music Dept. - UNM - UNM Orchestra - w/Lilian Fuchs - rehearsal	3:30 p.m.
16	" " " " " " " "	performance 7:00 p.m.
17	Music Dept. - UNM - String Clinic - UNM - performance	7:30am-12:30 p.m.
19	UNM Dept. Biology, Sierra Club - Aud. Wildlife Film Series	7:30 p.m.
20	Popejoy Hall & Cultural Program Committee - Nikolais Dance, reh.	1:00 p.m.
20	" " " " " " " "	perf. 8:15 p.m.
22	Albuquerque Symphony Orchestra - rehearsal	1:00 p.m.
23	" " " " " " " "	1:00 p.m.
24	" " " " " " " "	1:00 p.m.
24	" " " " " " " "	- performance 7:00 p.m.
26	Dept. of Modern & Clas. Lang. - Esta Noche Teatro - rehearsal	5:00 p.m.
26	" " " " " " " "	performance 8:00 p.m.
27	Speakers Committee, ASUNM - Karl Hess -	8:00 p.m.
31	Music Dept. - UNM - 24 Piano Recital - rehearsal	8:00am8:00 p.m.

November, 1970

1	Music Dept. - UNM - 24 Piano Recital - performance	3:00 pm6:00 p.m.
10	Speaker's Committee - Assoc. Students - Vigil Lecture -	7:00 p.m.
11	Albuquerque Symphony Orchestra - Symphony Concert - rehearsal	7:00 p.m.
12	" " " " " " " "	performance 7:00 p.m.
13	Dominican Retreat - Los Changuitos Feos - performance	7:00 p.m.
15	Varsity Ski Team - Ski Film Festival -	7:30 p.m.
16	Audubon Film Wildlife Series - Cent. Calif. Plains - Taft	8:00 p.m.
17	Cultural Program Committee ASUNM - National Players Oedipus	3:00 p.m.
18	Community Concert Association - Paul Kuentz Chamber Orchestra	8:15 p.m.
21	Popejoy Hall & Asso. Stu. Cul. Comm. - Jose Molina Espanolas	2:15 p.m.
21	" " " " " " " "	8:15 p.m.
24	Popejoy Hall & Sandia Kiwanis Club - Trav-Adv. - Dr. Hibben	7:30 p.m.
29	Popejoy Hall & Cultural Prog. Comm. - Forty Carats- performance	8:15 p.m.

December, 1970

1	Music Dept, UNM - Orchestra Concert - rehearsal	3:30-5:30 p.m.
1	" " " " " " " "	performance 7:00 -11:00p.m.
2	Albq. Sym. Orch. - Concert with Paul Doktor, - rehearsal	7:00 p.m.
3	" " " " " " " "	performance

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Popejoy Hall Programs  
1970 - 1971

December, 1970 (cont.)

7	Community Concert Association - John Darrenkamp	8:15 p.m.
8	Ballet West - Nutcracker Ballet - rehearsal	8:15 p.m.
9	" " " " "	8:15 p.m.
10	" " " " "	8:15 p.m.
11	" " " " performance	8:15 p.m.
12	" " " " "	8:15 p.m.
13	" " " " "	8:15 p.m.
14	" " " " "	2:15 p.m.
14	Music Department - UNM - UNM Chorus - rehearsal	12:30-1:30 p.m.
14	" " " " "	7:30-10:30 p.m.
15	" " " " "	12:30-1:30 p.m.
15	" " " " performance	7:00 p.m.
21	Albuq. Civic Light Opera - Carousel - rehearsal	8:15 p.m.
22	" " " " "	8:15 p.m.
23	" " " " "	8:15 p.m.
25	" " " " "	8:15 p.m.
26	" " " " performance	8:15 p.m.
27	" " " " "	8:15 p.m.
30	" " " " "	8:15 p.m.

January, 1971

2	Albuq. Civic Light Opera - Carousel - Performance	8:15 p.m.
3	" " " " "	2:15 p.m.
5	Audubon Wildlife Film Series - Cactus Empire	7:30 p.m.
6	Dept. of Music - UNM - Wind Ensemble - rehearsal	3:30 p.m.
6	" " " " " performance	8:15 p.m.
14	Albuquerque Symphony Orchestra - Mary Costa - rehearsal	7:00 p.m.
15	" " " " " performance	8:15 p.m.
16	Wildlife Conservation Assoc. - Wally Tabor Show	8:15 p.m.
17	Dept. of Music - UNM - NORAD Band (AFROTC)	7:00 p.m.
20	Sandia Girls School & Mothers Club - Helen Corbitt Lecture	1:00 p.m.
22	Cul. Comm. , Asso. Stu. , & Popejoy Hall - Plaza Suite	8:15 p.m.
23	Albuq. Public Schools & UNM Music Dept.- Albuq. Youth Symphony(r)	8:00 a.m.
23	Community Concert Association - Babin & Goldberg	8:15 p.m.
24	Albuq. Pub. Schools & UNM Music Dept. - Albuq. Youth Symphony (p)	4:00 p.m.
25	UNM Sw. Menc. & All State Convention - rehearsal	2:15 p.m.
26	" " " " " "	2:15 p.m.
27	" " " " " "	8:00 a.m.
28	" " " " " "	8:00 a.m.
29	" " " " " "	8:00 a.m.
30	" " " " " "	8:00 a.m.

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Popejoy Hall Programs  
1970 - 1971

February, 1971

1	Audubon Wildlife Film Series - Acadian Reflections - Fultz	7:30 p.m.
3	Travel-Adve. Series - Nicol Smith - South Seas	7:30 p.m.
4	Albuquerque Symphony Orchestra - John Browning - rehearsal	2:15 p.m.
5	" " " " " " performance	8:15 p.m.
6	K. D. E. F. - Irish Rovers	8:15 p.m.
12	College of Fine Arts & Sciences - Lecture - Atomic Energy	8:00 a.m. 1:00 p.m.
16	Popejoy Hall & Cul. Program Comm. - Zorba - performance	8:15 p.m.
17	" " " " " " " "	8:15 p.m.
18	Albuq. Childrens Theater - Winnie The Pooh - rehearsal	2:00 p.m.
19	" " " " " " " "	2:00 p.m.
20	" " " " " " " " performance	1:00 p.m.
20	" " " " " " " "	3:00 p.m.
21	" " " " " " " "	2:00 p.m.
22	Black Studies Program, UNM - Experience In Blackness-rehearsal	7:00 p.m.
23	" " " " " " " " " "	7:00 p.m.
24	First Methodist Church - Vienna Boy's Choir	7:30 p.m.
25	Black Studies Program, UNM - Experience In Blackness-rehearsal	7:00 p.m.
26	" " " " " " " " performance	7:00 p.m.
28	Popejoy Hall & Cull. Comm. Asso. Stu.-Charlie Brown	8:15 p.m.

March, 1971

1	Audubon Wildlife - Wild Rivers of North America	7:30 p.m.
4	Community Concerts Assoc. - Brnko Krysmannovich Chorus	8:15 p.m.
5	Albuq. Sym. Orchestra - (Concert) - Hector Garcia-rehearsal	7:00 p.m.
6	" " " " " " " " performance	7:00 p.m.
7	Speakers Committee - Assoc. Stu. - Lecture	8:00 p.m.
8	Popejoy Hall & Cultural Committee - Hadrian VII	8:15 p.m.
9	Popejoy Hall & Sandia Kiwanis Club - RFD America Hall	8:15 p.m.
11	Music Department - UNM Orchestra - rehearsal	3:00-5:30 p.m.
11	" " " " " " " " performance	8:15 p.m.
13	Cultural Program Committee - "1776" - performance	2:15 p.m.
13	" " " " " " " "	8:15 p.m.
14	" " " " " " " "	8:15 p.m.
15	Speakers Comm. Assoc. Stu. - Justice William O. Douglas	8:15 p.m.
17	Music Dept. - UNM - UNM Band Concert - rehearsal	3:30-5:30 p.m.
17	" " " " " " " " performance	7:00 p.m.
18	Popejoy Hall & Cul. Comm. of Assoc. Stu. - Julian Bream	8:15 p.m.
20	Albuq. Childrens Theater - Harkee the Cat & Fairy Doll - rehearsal	17:00 p.m.
21	" " " " " " " " " " performance	2:15 p.m.
22	" " " " " " " " " " " "	2:15 p.m.
21	UNM Music Dept. - Chamber Orch. Concert - rehearsal	5:30-7:00 p.m.
21	" " " " " " " " " " performance	7:30 p.m.
22	Albuq. Sym. Orch. - Orchestra Concert - rehearsal	7:00 p.m.
23	" " " " " " " " " "	7:00 p.m.
24	" " " " " " " " " "	7:00 p.m.
25	" " " " " " " " " " performance	7:00 p.m.

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Popejoy Hall Programs  
1970 - 1971

March, 1971 (cont.)

26	Music Department - UNM - Super Gig	8:15 p.m.
26	State Dept. of Education - F.H.A. All State Meeting	9:00-11:00 a.m.
27	" " " " " " " "	7:00-3:00 p.m.
27	Speakers Comm. - Assoc. Students - Rabbi Berger	8:00 p.m.
30	Manzano HS Boosters - Manzano HS Music Festival - rehearsal	12:00-2:00 p.m.
31	" " " " " " " "	8:00-12:00 a.m.
31	" " " " " " " performance	7:00 p.m.

April, 1971

2	PH & Sandia Kiwanis Club-Three Worlds of Peru - (Movie Series)	7:30 p.m.
3	Albuq. Sym. Orch. - Childrens Concert	2:15 p.m.
5	PH & Cul. Comm. - Assoc. Stu. - Stuttgart Bach Colligium	8:15 p.m.
10	Albuquerque Civic Light Opera - Camelot - rehearsal	8:15 p.m.
11	" " " " " "	8:15 p.m.
12	" " " " " "	8:15 p.m.
13	" " " " " "	8:15 p.m.
14	" " " " " performance	8:15 p.m.
15	" " " " " "	8:15 p.m.
16	" " " " " "	8:15 p.m.
17	" " " " " "	8:15 p.m.
18	" " " " " "	2:15 p.m.
19	" " " " " "	8:15 p.m.
21	New Mexico Music Educators Assoc. - Chorus Competition	7:00am-5:00 p.m.
23	Albuquerque Sym. Orch. - Concert - D. McRae	8:15 p.m.
24	S.P.E.B.S.Q.S.A. - Circus Time - rehearsal	2:15 p.m.
24	" " " " performance	8:00 p.m.
26	Speakers Comm. - Assoc. Students - The Cage	8:15 p.m.
27	New Mexico Educators Association-(Music Dept.) -Band Competition	(all day)
28	" " " " " " "	(half day)
31	Cultural Program Committee - Repertory Dance Theater - Rehearsal	2:00 p.m.

May, 1971

1	Cultural Program Committee- Repertory Dance Theater-Performance	8:00 p.m.
10	Campus Crusade - Spurlows - Performance	8:00 p.m.
13	Navy R.O.T.C. - Awards Ceremony	8:00 p.m.
15	Music Department - UNM- Albuq. Youth Sym. Orch. - Rehearsal	7:00 p.m.
16	" " " " " " Performance	8:00 p.m.
17	Music Department - UNM - Wind Ensemble Concert	8:00 p.m.
18	Music Department - UNM - UNM Orchestra & Chorus - Rehearsal	6:30 p.m.
19	" " " " " " Performance	7:00 p.m.
21	Haley Studio - Dance Recital - Rehearsal	3:00 p.m.
22	" " " " " Performance	8:00 p.m.
30	St. Pius High School - Graduation	7:00 p.m.

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 Popejoy Hall Programs  
 1970 - 1971

June, 1971

4.	UNM School of Medicine - Convocation of Graduating Class	8:00 p.m.
10	Albuquerque Civic Light Opera - Destroy - Performance	8:15 p.m.
11	" " " " " "	"
12	" " " " " "	"
17	" " " " " "	"
18	" " " " " "	"
19	" " " " " "	"
20	" " " " " "	"
23	Unm Department of Music - UNM Band Concert	2:15 p.m. 8:15 p.m.



# POPEJOY HALL

AND THE CULTURAL PROGRAM COMMITTEE  
OF THE ASSOCIATED STUDENTS, UNM

59

*present*

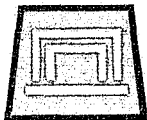
## THE 1970-71 ENTERTAINMENT SERIES

(AN ADVENTURE IN THE LIVELY ARTS)

Sept 22	Edward Villella - Hilda Morales	8:15 p.m.	\$3.50 to \$6.50
Sept. 24, 25, 26	Merchant of Venice -(Classics Theater)	8:15 p.m.	\$2.00 to \$3.00
" 25	" " "	2:15 p.m.	" "
Oct. 11, 12	George M (Hit Musical)	8:15 p.m.	\$3.50 to \$6.50
Oct. 20	Nikolais Dance Theater	8:15 p.m.	\$3.50 to \$6.50*
Nov. 17	Twelfth Night (National Players)	3:00 p.m.	\$2.00 to \$4.00*
	Oedipus Rex (National Players)	8:15 p.m.	\$2.00 to \$4.00*
Nov. 21	Jose Molinas Ballet Espanol	8:15 p.m.	\$3.50 to \$5.50
Nov. 29	Forty Carats (Hit Comedy)	8:15 p.m.	\$3.50 to \$5.50
Dec. 11, 12	Nutcracker Ballet (Ballet West)	8:15 p.m.	\$3.50 to \$6.50*
Dec. 13	Nutcracker Ballet	2:15 p.m.	\$3.50 to \$6.50*
Dec. 26, 27, 30	Carousel (Civic Light Opera)	8:15 p.m.	\$3.00 to \$4.00*
Jan 2	Carousel	8:15 p.m.	" " *
" 3	"	2:15 p.m.	" " *
Jan. 22	Plaza Suite (Neil Simon Hit)	8:15 p.m.	\$3.50 to \$5.50
Feb. 2	Adaptation/Next (Elaine May Comedy)	8:15 p.m.	\$3.50 to \$5.50
Feb. 16, 17	Zorba (Hit Musical)	8:15 p.m.	\$3.50 to \$6.50
Feb. 28	You're A Good Man Charlie Brown	8:15 p.m.	\$3.50 to \$5.50*
Mar. 8	Hadrian VII (British Comedy)	8:15 p.m.	\$3.50 to \$5.50
Mar. 13, 14	1776 (Broadway Hit Musical)	8:15 p.m.	\$3.50 to \$6.50
Apr. 5	Stuttgart Bach Collegium (B Minor Mass)	8:15 p.m.	\$3.50 to \$6.50
May 1	Repertory Dance Theater	8:15 p.m.	\$3.50 to \$5.50*

\*Special Childrens' rates - one half price

Address all inquiries to Popejoy Hall - University of New Mexico, Albuquerque, N. Mex 87106  
Telephone - 277-3121



THE UNIVERSITY OF NEW MEXICO

POPEJOY HALL

AND THE CULTURAL PROGRAM COMMITTEE  
OF THE ASSOCIATED STUDENTS, UNM.

present

## THE 1971-72 ENTERTAINMENT SERIES

(AN ADVENTURE IN THE LIVELY ARTS)

Exquisite—Exotic—Charming <b>LITTLE ANGELS OF KOREA</b> (National Ballet) Wednesday, October 6, 1971 \$5.50, 5.00, 4.50, 4.00, 3.50	<i>Cancelled</i> <i>replaced with</i> <i>Lincoln Center</i> <i>Open</i> <del>Canterbury Tales</del> Friday, October 29, 1971 \$5.50, 5.00, 4.50, 4.00, 3.50	<b>LOS ANGELES PHILHARMONIC</b> ZUBIN MEHTA, conducting Friday, November 19, 1971 \$9.00, 8.00, 7.00, 6.00, 5.00
<b>NATIONAL PLAYERS</b> Production of Moliere's Great Comedy <b>THE MISER</b> Tuesday, November 23, 1971 \$4.00, 3.50, 3.00, 2.50, 2.00	<b>SUBSCRIBE TODAY</b> <b>SAVE 25%+</b> All Dates Subject To Slight Change With Written Notice	Neil Simon's Latest Comedy Hit <b>THE LAST OF THE RED HOT LOVERS</b> Sunday, December 5, 1971 \$5.50, 5.00, 4.50, 4.00, 3.50
Award Winning Musical Hit <b>PROMISES, PROMISES</b> Book by Neil Simon Music by Burt Bacharach Tuesday, January 4, 1972 \$7.00, 6.50, 6.00, 5.00, 4.00	Black Grace & Beauty <b>DANCE THEATER OF HARLEM</b> Saturday, January 22, 1972 \$6.50, 6.00, 5.50, 4.50, 3.50	OBIE Award Winning Comedy <b>BUTTERFLIES ARE FREE</b> Tuesday, February 15, 1972 5.50, 5.00, 4.50, 4.00, 3.50
Direct from Moscow <b>OSIPOV ALAIIA ORCHESTRA</b> STARS OF BOLSHOI BALLET & OPERA Monday, February 21, 1972 \$7.00, 6.50, 6.00, 5.00, 4.00	In the Nikoia Tradition <b>MURRAY LOUIS DANCE THEATER</b> Wednesday, March 15, 1972 \$5.50, 5.00, 4.50, 4.00, 3.50	<b>THE BIG ONE</b> <b>BALLET FOLKLORICA MEXICANA</b> Monday, April 10, 1972 \$7.00, 6.50, 6.00, 5.00, 4.00

A limited number of subscriptions to the complete series of eleven events are now available to the general public at the prices listed below. All subscription requests will be filled in the order of receipt.

SECTION	SUBSCRIPTION RATES					% Disc.
	I	II	III	IV	V	
VALUE OF SINGLE TICKETS	\$69.00	\$63.00	\$57.00	\$48.50	\$40.00	
PRICE, PUBLIC	50.00	45.00	40.00	35.00	30.00	25%+
FACULTY/STAFF, UNM (must be on UNM payroll)	43.00	39.00	35.00	30.00	24.00	35%+
STU/ACTIVITY CARD, UNM	18.00	16.00	14.00	12.00	10.00	75%+

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A series of extraordinary quality and variety is offered for the coming season featuring prime attractions from all over the world, and the very best Broadway Theater and Dance programs. The incomparable Zubin Mehta will conduct the Los Angeles Philharmonic. From Moscow the spectacular Osipov Balalaika Orchestra, with stars from the Bolshoi Opera & Ballet, will grace our stage. Mexico City sends us its finest entertainment jewel—the Folklorica; and the National Ballet of Korea introduces us to the exotic folk art of the Far East. Eleven major events in all comprise the 1971-72 season, now available on subscription only.

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### EXTRA ADDED ATTRACTION: (Not included in Series Subscription price)

The MAGNIFICENT VIENNA OPERA COMPANY will present DIE FLEDERMAUS on Wednesday, March 1. Single tickets are priced at \$10.00, \$9.00, \$8.00, \$7.00, \$6.00. Subscribers may reserve their regular seats for this show by marking "YES" in the appropriate box on the order card enclosed. Don't pass up this extraordinary opportunity to hear some of Europe's greatest voices in a favorite opera.

TELEPHONE 277-3121



THE REPORT OF KNME TELEVISION

July 1, 1970 - June 30, 1971

F. C. Hempen, Director

On May 1, 1971, KNME Television, Channel 5, entered into its fourteenth year of broadcasting.

The license is still in the name of the Board of Regents of the University of New Mexico and the Board of Education of the Albuquerque Public Schools. Programs are broadcast thirteen hours per day, Monday through Friday, and Sunday from 5:00 to 10:00 P. M. For fourteen weeks in the summer months, the schedule is reduced to a five-hour day, five days a week, Monday through Friday, and Sunday. Plans are in progress to start broadcasting on Saturday from 5:00 to 10:00 P. M.

The Corporation for Public Broadcasting network provides fifteen hours of evening broadcasting per week.

University Related Programs

The following programs were produced in cooperation with the University of New Mexico and/or University related.

THE INDIAN SPEAKS - one half-hour per week featuring University of New Mexico people as co-producers.

CHANNEL 5 REPORTS - "It's your University" - two half-hour programs per month dealing with University of New Mexico personalities. Hosted

by H. G. Alexander, Professor Emeritus at the University of New Mexico.

CAMPUS INTERNATIONAL - one half hour per month produced by the International Office at the University of New Mexico and featuring foreign exchange students at the University.

THIS IS YOUR CITY: ALBUQUERQUE - one half-hour per week presented in cooperation with some University of New Mexico faculty and staff and with the City of Albuquerque.

LOBO LAIR - fifteen minutes once-a-week of sports information from the University of New Mexico featuring Eddie Groth, Sports Information Director at UNM.

UNIVERSITY OF NEW MEXICO REPORTS - fifteen minutes once-a-week produced by the University of New Mexico News Bureau and presenting information on cultural and public service aspects at the University of New Mexico.

HECTOR GARCIA IN PERFORMANCE - featuring Hector Garcia of the University of New Mexico Music Department in performance. 13 one-half-hour programs.

DRUG EDUCATION - series of six or seven 20 minute programs, content which was aided directly by the University of New Mexico School faculty and members of the University of New Mexico student body.

NEW MEXICO FESTIVAL - twenty-six hour programs featuring talent from the University of New Mexico, Albuquerque Public Schools, Uni-

versity of Albuquerque, and other local performance organizations.

Six thirty-minute programs dealing with New Mexico poets and their works. Many of the poets will be University of New Mexico people.

Telecourses for the Albuquerque Public Schools and Forty-three School Districts in the State of New Mexico

ELEMENTARY SCIENCE SIX, a twice-a-week twenty minute program of science instruction for the Sixth Grade, and SUPPLEMENTARY SCIENCE 6 were broadcast with George Fischbeck as a Science teacher.

ELEMENTARY SCIENCE 5 and SCIENCE FARE 5 continued also twice a week for a twenty-minute period with George Fischbeck.

ELEMENTARY MUSIC 4, 5, and 6 taught by Marinell Dungan, Kathleen McVicker and Nancy Johnson respectively, continued their twice-a-week twenty-minute programs.

ELEMENTARY SPANISH, HABLEMOS ESPANOL, was video taped in 1969 at the time it was presented and continued through 1970 via video tape.

Service Programs for the Albuquerque Public Schools

THE NEW MEXICO FESTIVAL (see attached)

A monthly program entitled APS REPORTS, concerned with general news of the Albuquerque Public Schools, was broadcast once a month during the school year.

Completed Plans

KNME Television moved into its new building at 1130 University Boulevard, North, from its old studio location of 1801 Roma, N. E.

KNME was housed in the old studio from 1957 until August, 1970.

From May until September, the KNME Staff installed all wiring and all television equipment in both the studio and the master control.

The light grid in the studio was designed and erected by the Staff. It has five miles of wire connected to 240 individually controlled twenty ampere outlets. This wire is adequate for color broadcasting at the point and time for the state of the television art. The master control has ten miles of wire, all of which is necessary for our present one-studio operation. Plans for the second studio are now under consideration. The proposed new studio is 100' x '50' with a 35' floor to ceiling clearance. New General Electric four-tube plumbicon cameras and associated equipment have placed KNME Television technically on a par equal to any station in the United States, including commercial network centers. Our local live color and network interconnect color is technically the best in the area. By national technical standards, KNME is rated in the top twenty non-commercial stations.

#### Special Projects

KNME Television again has cooperated with a University Committee to provide productions for the THEOPHLE GAUTIER SEMINAR which has been planned through the Modern Language Department. This Seminar is scheduled for 1973.

Application to HEW and the Broadcast Facilities Act again for \$350,000.00 is still pending and must be renewed again this year. These

funds from the Federal Government will provide new equipment for the proposed second studio.

Application has been made to the Corporation for Public Broadcasting for a grant-in-aid to produce a bilingual kindergarten program, an all-Spanish discussion program QUE PASA?, and to provide talent fees for other productions which includes a program with the Rio Grande Zoo and the Animal Humane Association entitled ANIMALAND. Non-commercial television stations may make program proposals for grants to the Corporation for Public Broadcasting yearly for support of local programming.

KNME Television made a request for a program with content for more than local use to the Corporation for Public Broadcasting--THE NAVAHO INDIANS' WAY OF LIFE. This proposal was not funded. We shall continue to make proposals for program content of more than local use next year.

June 4, 1971

The following is a list of the Albuquerque Public School groups which participated in the New Mexico Festival series. Of the twenty-seven programs thirteen featured the Albuquerque Public School's music department.

Valley High School Choir

Albuquerque High Choir

Sandia High Choir

Manzano High Choir

Eldorado High Choral Ensemble

Rio Grande High Choral Ensemble

Cleveland Jr. High Choir

Jefferson Jr. High Choir

Madison Jr. High Choir

Wilson Jr. High Choir

Grant Jr. High Choir

Hoover Jr. High Choir

Taft Jr. High Choir

Kennedy Tomasita Mid School

Manzano High Orchestra

Highland High Orchestra

Sandia High Orchestra

Hiegths Junior Orchestra

Manzano High Stage Band

Sandia High Stage Band

West Mesa High Stage Band

Rio Grande High Stage Band

Del Norte High Stage Band

Jefferson Jr. High Band

Van Buren Jr. High Band

Grant Jr. High Band

Kit Carson Elementary

Byron

KNME-TV CHANNEL 5  
1130 UNIVERSITY BOULEVARD, NORTH  
ALBUQUERQUE, NEW MEXICO 87106

September 2, 1971

PROGRAMS WITH CIVIC AND STATE AGENCIES

- Albuquerque City Manager's Office - Production of weekly half-hour series on affairs of city government.
- Albuquerque Environmental Health Department - Production of weekly 10-minute series for in-school use on environmental problems of the state.
- Albuquerque Goals - Cooperation in determining continuing education needs of Albuquerque and production of several half-hour series during 1970-71.
- Albuquerque Guitar and Vihuela Society - Production of 8 one-hour and 3 half-hour music programs during 1970 and 13 half-hour programs during 1971-72.
- Albuquerque Humane Society - Production of 40 half-hour children's animal care programs.
- Albuquerque Junior Symphony - Presentation of music information on Albuquerque concerts during last year and 1972.
- Albuquerque Light Opera - Presentation of programs of interest to children.
- Albuquerque Musician's Union - Assistance in coordinating 10-minute performances by local musicians.
- Albuquerque Police Department - Presentation of material to Albuquerque citizens.
- Albuquerque Public Schools - Eleven telecourses per week, monthly administration reports, and coordination of information to teachers and students in the school system.
- Albuquerque Public Schools Cultural Awareness Center - For assistance in the production of a bilingual pre-school program MI ESCUELITA.
- Albuquerque Public Schools Music Department - Presentation of 26 hour and half-hour programs featuring school personnel and children in performance.
- Albuquerque Children's Theatre - Presentation of five programs of cultural enrichment for children.

- Albuquerque Senior Citizens Center - Assistance in producing programs for elderly New Mexicans.
- Albuquerque Tutors Association - Assistance in providing information on home education for elderly New Mexicans.
- American Association of Retired Persons - Cooperation and coordination of series for elderly New Mexicans.
- American Legion - Assistance in bilingual discussion program and in producing programs for elderly New Mexicans.
- Children's Television Workshop - Production of SESAME STREET, and new reading program THE ELECTRIC COMPANY.
- City of Albuquerque Model Cities - Distribution of SESAME STREET guides.
- Community Museum of Albuquerque - Supply of materials for program honoring former Governor Miles and material for photography exhibit for New Mexico Indians.
- Corporation for Public Broadcasting - Presentation of evening public television programs.
- Dairy Council of Rio Grande - Assistance in nutrition programs for elderly New Mexicans, dental information to New Mexico school children and presentation on the New Mexico State Fair.
- Drug Abuse Education Center - Coordination of drug information material to parents and children, production of 10-minute local programs on drug abuse and 4 half-hour drug education programs.
- Encino House (HUD Housing) - Assistance in presenting housing information to senior New Mexicans.
- Independent New Mexican Party - Assistance in producing political programs on 1970 election and on political party reports during 1971-72.
- Indian Speaks Committee - Production of weekly half-hour series speaking to New Mexico Indians about their problems.
- International Association of Financial Counselors - Assistance on financial management for elderly New Mexicans.
- National Aeronautics and Space Administration - Presentation of monthly report on activities of NASA.



- New Mexico Arts Commission - Production of four children's cultural enrichment programs.
- New Mexico Attorney General's Office - Presentation of information segments for CHANNEL FIVE REPORTS, THE AGELESS, and THE INDIAN SPEAKS.
- New Mexico Commission on Aging - Presentation of weekly series for elderly New Mexicans.
- New Mexico Council of Churches - Coordinating publicity and television sets for teenagers viewing of TURNED ON CRISIS drug series.
- New Mexico Employment Security Administration - Assistance in producing programs of interest to elderly New Mexicans.
- New Mexico Health and Social Services - Presentation of health education material.
- New Mexico Parks and Recreation Department - Presentation of information on New Mexico park and recreation availabilities.
- New Mexico Poetry Society - Production of program series featuring New Mexico poets.
- New Mexico State Archives - Presentation of historical films in New Mexico.
- New Mexico State Democratic Party - Assistance in producing political programs on 1970 election and on political party reports during 1971-72.
- New Mexico State Legislature - Presentation of bi-weekly half-hour reports during the 1971 Legislature.
- New Mexico State Governor's Office - Presentation of monthly government news report.
- New Mexico State Lieutenant Governor's Office - Assistance with spanish/ language program and bilingual pre-school program MI ESCUELITA.
- New Mexico State Parent Teachers Association - To promote a series of drug education programs.
- New Mexico State Police - Presentation of material to New Mexico motorists.
- New Mexico State Republican Party - Assistance in producing political programs on 1970 election and on political party reports during 1971-72.

People's Constitutional Party - Assistance in producing political programs on 1970 election and on political party reports during 1971-72.

Presbyterian Hospital - Assistance in producing programs for elderly New Mexicans.

Public Broadcasting Service - Coordination of evening public television programs.

Public Service Company in New Mexico - Presentation of viewpoints on environmental protection.

Red Cross of Albuquerque - Safety information to school children in the New Mexico school system, and programs of interest to elderly New Mexicans.

Roswell Technical Vocational Institute - Presentation of programs on watchmaking and skills.

Santa Fe Camera Club - Assistance in producing programs for elderly New Mexicans which was later placed on permanent exhibit at the Museum of New Mexico.

Santa Fe Senior Citizen Center - Assistance in producing programs for elderly New Mexicans.

Senior Citizens Center of Mora County - Assistance in producing programs for elderly New Mexicans, which was later placed on permanent exhibit at the Museum of New Mexico.

Small Business Administration - Presentation of six programs on financial management for small businesses.

Social Security Office - Assistance in producing programs for elderly New Mexicans.

Southwestern Cooperative Educational Laboratory - Presentation of bilingual pre-school program MI ESCUELITA for contents and coordination.

State Department of Education - Presentation of vocational education in the state.

State Department of Education - Coordination of drug information program to schools in New Mexico.

United States Bureau of Land Management - Presentation of viewpoint on main and public lands.

United States Congressman Harold Runnels' Office in Washington - Presentation of monthly government news report.

United States Congressman Manuel Lujan's Office in Washington - Presentation of monthly government news report.

United States Forest Service - Presentation of outdoor recreational problems in the Sandia Mountains.

United States Senator Joseph Montoya's Office in Washington - Presentation of monthly government news report.

University of Albuquerque - Presentation of dramatic performances featuring University of Albuquerque students.

University of New Mexico Community College of Continuing Education - Coordination in establishing needs for continuing education in Albuquerque and in presenting information on scholastic opportunities for elderly New Mexicans.

University of New Mexico English Department - Presentation of six programs on D. H. LAWRENCE.

University of New Mexico Geology Department - Presentation of programs on geology in New Mexico.

University of New Mexico Institute for Social Research and Development - Assistance in producing programs on status of New Mexico business, and in producing programs for elderly New Mexicans.

University of New Mexico Music Department - Presentation of weekly half-hour music programs.

University of New Mexico News Bureau - Presentation of weekly news report from The University of New Mexico campus.

University of New Mexico Sports Information Office - Presentation of weekly University of New Mexico sports wrap-up.

Vista Volunteers - Assistance in producing programs for elderly New Mexicans and in presenting volunteer information to young New Mexicans.

White House Conference on Aging - Assistance in producing programs for elderly New Mexicans.

**COLLEGE OF ARTS AND SCIENCES**

**ANNUAL REPORT, 1970-71**

**Nathaniel Wollman, Dean**

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and Appointments**

**Departmental and Faculty Items of Special  
Note for 1970-71**

**Educational Developments, Problems, and Plans**

**Departmental Reports**

Administration of College and Departments:

The administrative arrangements of 1970-71 were the same as those of the previous year, both in terms of designated offices and their incumbents. Plans were made during 1970-71 to add a position of student counsellor. Maria Geer was appointed, effective July 1, 1971. Maria's job is to meet with students who come to the office with problems, advise them or indicate where they can be given the advice they need.

The standing faculty advisory committees and student advisory committee continued the work begun in 1969-70 dealing with curriculum revision, discussed below.

Two ad hoc committees were constituted to deal with evaluation of departmental chairmen and a request that denial of tenure be reviewed. The usual advisory committees on promotion also functioned. The committee appointed to review the tenure appeal case was dismissed early in its life because it proposed to undertake hearings in the form of adversary proceedings, a form that I thought inappropriate. Since it felt committed to its intentions, there was no solution other than dissolution of the committee. Whether a college committee should participate in review of departmental chairmen is an open question. Probably another procedure will be used in 1971-72 for the sake of experimentation.

The reports submitted by several special committees on salaries were too general to be of much help. I continue to remain dissatisfied with the time required for fine tuning of salary adjustments on grounds that the net results are not worth the time required.

Faculty and chairmen have been working to accommodate to the problems created by the new advisory system, but no new administrative arrangements have been devised. Each department will designate, however, one or more faculty members to whom students can be sent for advice.

Departmental chairmanship assignments remained unchanged except as noted:

1. Guido Daub was appointed regular chairman of Chemistry beginning 1971-72, succeeding himself as acting chairman.
2. Lee A. Woodward was appointed regular chairman of Geology beginning 1971-72, succeeding himself as acting chairman.
3. Michael Gehlen completed his first year as regular chairman of Political Science, succeeding Harold Rhodes, acting chairman for 1969-70.
4. Charles Woodhouse served as acting chairman of Sociology while Richard Tomasson was on leave.
5. Wayne C. Eubank resigned as chairman of Speech effective June 30, 1972.

The Arts and Sciences faculty approved a system of evaluating departmental chairmen by which initial appointments would be six years and reappointments three years except where special arrangements for shorter terms were made. A system of staggered terms was instituted so that no more than two to four chairmanships would be appraised in any normal year. Evaluations will include directorships of institutes and centers that are part of the College. An evaluation of the dean by the faculty was also done. Several departments--English, Geography, Geology and Speech come to mind--instituted their own system of student evaluation of faculty and courses. It is expected that these evaluative

devices will be improved and their use widened within the College in order to provide better information on quality of teaching and scholarship for use by those responsible for recommendations regarding tenure and promotion. Faculty Advisory Committee II recommended a comprehensive system that would employ student evaluation, faculty evaluation, and evaluation by outsiders as a pre-requisite to consideration for tenure or promotion. The promotion advisory committees have recommended that better information be supplied to them by departments making recommendations for promotion. We shall try to make some improvements over the present system in 1971-72.

During the year 1970-71, the Directorship of the Anderson Study and Research Center was held by William J. Brisk in Semester I and Robert D. Herron in Semester II. Professor Herron will continue to serve as director for 1971-72.

A change in directorship of the Maxwell Museum was made upon the resignation of Frank Hibben as of January 30, 1971. Professor Campbell, chairman of the Anthropology Department, has been acting as director, with Jerome Brody serving as curator.

Several changes in office space and other facilities were undertaken, in process, or concluded during the year. The Arts and Sciences office moved from Bandelier to New Ortega. Modern Languages, Political Science, Economics, History, and Sociology were served with eviction notices. The first two will be in New Ortega for 1971-72; Economics and Sociology will be in Old Bratton; History will move to the center wing of Mesa Vista. Facilities for Geology will be expanded, a new teaching laboratory for Physics and a new building for Psychology will be built, and the plans for an enlargement of the Maxwell Museum and the Anthropology Building were at point of completion by June 30,

1971. Although Geography is in a building slated for destruction they like it there and want to stay unless comparable facilities can be provided in a new building. English spaces will be much improved and extended into Old Ortega, (renamed Bandelier East). Speech was given additional space and facilities, although they are still short of space and equipment for speech pathology and audiology. TV facilities, used by Speech and Journalism, were improved, but additional equipment is still needed.

No changes except that pertaining to American Studies were made in departmental organization. In the case of American Studies, the program was given additional autonomy by separating its budget, including the full salary of the director, from that of the English Department. By mutual agreement, however, Professor Jones holds an appointment jointly in American Studies and English. A problem that may become serious but is now settled by mutual consent is division of Graduate Assistants and Teaching Assistants between English and American Studies.

During the year there were discussions regarding the status of Computer Science and Linguistics, with the objective of giving to these programs the support that they need and deserve, but no organizational changes were made. Any solution will involve several colleges and schools of the University as well as various departments in Arts and Sciences.

Each Arts and Sciences department keeps in the back of its collective mind a long-range program that is formulated at least in intuitive terms. Several departments, however, have begun to consider such questions as limit on faculty size, areas of concentration within such limits, and desirable undergraduate-graduate allocation of resources.



In part these thoughts have been stimulated by extremely crowded classrooms, rapid growth in enrollments, shortage of space and laboratory facilities, shortage of library books, increased competition with students for parking space and a table in the Union as well as encouragement by the Central Administration to pursue long-range planning.

#### Enrollments and Student Performance:

Enrollments in the College grew by about 4% for the year 1970-1971 over the preceding year, although student credit hours grew by about 14%. The rate of growth in student credit hours has varied markedly by departments over the last five years, with Journalism and Philosophy more than doubling, followed by Anthropology, Psychology, Geography, and Sociology, all of whom grew by amounts ranging between 50% and 100% of their 1965-66 enrollments.

These figures partly reflect student interests, but in several departments relatively low growth rates reflect restrictions on enrollments of varying strength imposed by departments in their efforts to accommodate to limited resources of faculty, graduate assistants, and classroom and laboratory spaces.

The growth in number of degrees awarded by the College over the past five years (Table IV, 49.5%) roughly parallels the growth in College enrollment (Table I, 52.4%) over the same period. The number of graduating seniors fell in 1971 over 1970, a consequence of the increase in the number of students who have shifted to University College for the Bachelor of University Studies degree. It is likely that the full effect of student transfers out of Arts and Sciences to the Bachelor of University Studies program will not be stabilized until a few more years have passed. The total number of graduate degrees earned in Arts and Sciences

departments grew in 1971 over 1970, but at a substantially lower rate than in previous years (Table IV). For the five-year period 1966-71, the number of bachelor degrees awarded in the College grew relatively less than in the University as a whole (Table V), whereas the number of graduate degrees earned in departments of the College grew at a substantially greater rate than elsewhere in the University. The increase in demands upon faculty and other resources because of this growth in graduate productivity has imposed a serious strain on College resources and partly explains the restrictions that have been imposed by some departments on the growth of undergraduate enrollments and student credit hours.

Table VI shows the degrees awarded by department for each of the last three years. In many instances the figures on degrees follow trends that run counter to the teaching loads assumed by departments as measured by student credit hours, partly a reflection of the transfer of students from Arts and Sciences to the Bachelor of University Studies program, but also partly a reflection of the servicing of students enrolled in other schools and colleges. As is shown in Table VIII, in 1970-71 178 students in Education graduated with a major in one of the Arts and Sciences departments. As in previous years, English and History had the largest numbers. Economics and Physics and Astronomy are the only two departments not represented. Only four students in Arts and Sciences graduated with majors in another College, of which three were in Art.

Largely as a consequence of the events of May 1970, the number of students on probation or suspended for academic reasons in 1970-71 was substantially lower than in previous years. The changes in grading

recently adopted by the faculty should result in continued low figures. This raises a question that cuts across all colleges: what is the appropriate retention policy in light of restrictions being imposed on admissions? It may take another year or two of experience before we can ascertain whether or not retention or admission policies need revision. So far as Arts and Sciences is concerned, the picture is not yet clear.

Grading standards within the College were studied during the past year, with clear evidence that grading practices varied substantially among Arts and Sciences departments. No comparison was made with other schools and colleges of the University. Table IX shows that a larger fraction of students earned high grades in 1970-71 than in 1969-70, in spite of the unusual grading practices followed in Semester II, 1969-70. The reason for a general disposition of the faculty to give high grades more freely is not clear, since there is no evidence that students are better prepared or are more attentive to their studies than hitherto. I suggest that the matter of grading be considered by an all-University body, since unilateral action by one College is neither desirable nor likely to succeed.

Although a larger fraction of students earned high grades in 1970-71 than in the year before, there was a reduction from 1969-70 in the number of students who graduated with academic honors, including election to Phi Beta Kappa and Phi Kappa Phi. This reduction was disproportionate to the reduction in the number of graduating seniors. The reason for this anomaly is not apparent.

TABLE I  
NUMBER OF STUDENTS ENROLLED  
COLLEGE OF ARTS AND SCIENCES, 1965-66--1970-71

YEAR	SEM. I	% Inc. Over Prev. Year	SEM. II	% Inc. Over Prev. Year
1965-66	1,667	15.9	1,860	21.4
1966-67	1,993	19.5	2,032	9.2
1967-68	2,239	12.3	2,248	10.6
1968-69	2,367	5.7	2,474	10.0
1969-70	2,454	3.7	2,412	- 2.5
1970-71	2,541	3.5	2,518	4.4
<hr/>				
Increase 1970-71 Over 1965-66	874	52.4	658	35.4

TABLE II  
STUDENT CREDIT HOURS TAUGHT, URM AND A&S

YEAR	STUDENT CREDIT HOURS URM	STUDENT CREDIT HOURS A&S	A&S PER CENT OF TOTAL
1965-66	290,852	194,863	67.0
1966-67	317,490	208,845	65.8
1967-68	336,749	219,298	65.1
1968-69	348,709	226,690	65.0
1969-70	368,479	234,288	63.9
1970-71	425,189	267,324	62.9
<hr/>			
Increase 1970-71 Over 1969-70	15.4%	14.1%	
	56,710	33,036	
<hr/>			
1970-71 Over 1965-66	46.2%	37.2%	
	134,337	72,461	

TABLE III  
STUDENT CREDIT HOURS BY DEPARTMENTS

DEPT.	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	% Incr. 1966-71
Anth.	10,523	12,380	13,139	15,098	16,190	20,543	95.22
Biol.	17,122	17,816	18,665	18,794	18,218	19,816	15.73
Chem.	11,270	12,227	12,620	12,597	11,805	13,797	22.42
Econ.	7,482	8,347	9,609	9,298	9,387	11,135	48.82
Engl.	32,841	33,069	35,014	34,917	37,610	41,601	26.67
Geog.	2,829	3,165	4,017	3,794	4,141	5,126	75.66
Geol.	7,385	7,328	7,858	9,100	9,803	10,232	38.55
Hist.	19,612	21,672	23,058	23,684	22,938	22,986	17.20
Journ.	1,060	1,392	1,601	1,747	2,020	2,272	114.34
Math.	22,269	24,517	24,733	23,417	23,787	25,138	12.88
McCL.	17,346	18,479	19,397	20,888	21,101	23,675	36.49
Phil.	4,215	4,589	5,198	4,709	6,808	10,260	143.42
Phys.	7,265	7,608	8,091	8,753	8,508	9,155	26.02
Pol. Sci.	8,232	8,436	7,892	9,683	9,990	10,265	24.70
Psych.	12,623	13,634	13,911	15,563	16,649	23,092	82.94
Soc.	6,995	8,171	6,843	8,119	8,234	10,877	55.50
Speech	5,761	6,015	6,497	6,529	7,099	7,354	27.65
Inter- Dept.	—	—	1,155(a)	—	—	—	—
TOTALS	194,830	208,845	219,298	226,690	234,288	267,324	37.15

(a) Student credit hours earned in an experimental interdisciplinary course taught during Semester I, 1967-68. The course attracted many students who would ordinarily have enrolled in political science, sociology, and other departments.

**TABLE IV**  
**DEGREES AWARDED, COLLEGE OF ARTS AND SCIENCES**

YEAR	BACHELOR'S DEGREES		ADVANCED DEGREES					
	No. of Degrees	% Inc. Over Prev. Year	Master's(a) No. % Inc.		Doctor's No. % Inc.		Total No. % Inc.	
1966	396	12.3	112	25.8	20	-31.0	132	11.8
1967	423	6.8	130	16.0	41	105.0	171	30.5
1968	511	20.8	171	31.5	47	14.6	218	27.5
1969	601	17.6	162	-5.3	62	31.9	224	2.8
1970(b)	601	.0	167	3.1	72	16.1	239	6.7
1971	592	-1.5	171	2.4	73	1.4	244	2.1
5-Year Incr.	196	49.5	59	52.7	53	265.0	112	84.8

(a) These figures do not include Master of Arts in Teaching and Master of Education in Science degrees.

(b) This is the first year for granting the B.U.S. degree.

**TABLE V**  
**DEGREES AWARDED, A&S AND UMM, 1966 AND 1971**

COLLEGE	BACHELOR'S DEGREES			ADVANCED DEGREES		
	1966	1971	% Inc.	1966	1971	% Inc.
Arts and Sciences	396	592	49.50	132	245	85.61
Other Colleges*	582	1152	97.94	314	423	34.71
UMM	978	1744	78.32	446	668	49.78

\*Excludes Law and Medicine.

TABLE VI  
DEGREES AWARDED, BY DEPARTMENT, 1969-71

DEPARTMENT	BACHELORS			MASTERS			DOCTORAL		
	1969	1970	1971	1969	1970	1971	1969	1970	1971
American St.**	-	-	-	-	-	-	3	4	1
Anthropology	31	35	57	6	14	16	3	4	2
Art*	1	5	3	-	-	-	-	-	-
Biology	70	77	80	21	17	18	5	2	4
Chemistry	45	35	33	3	4	1	2	6	6
Comp. Lit.	5	-	-	-	3	-	-	-	-
Dietetics*	-	1	1	-	-	-	-	-	-
Economics	21	20	15	8	5	3	1	-	1
Econ.-Phil.	2	1	-	-	-	-	-	-	-
English	75	71	68	23	12	18	16	11	7
English-Phil.	1	9	-	-	-	-	-	-	-
Foreign Studies	24	12	14	16	7	14	-	1	-
Geography	13	6	10	-	-	1	-	-	-
Geology	8	9	15	8	7	4	2	3	5
History	66	89	64	14	15	13	7	7	16
Ibero-American Studies**	-	-	-	-	-	-	3	3	-
Journalism	31	19	16	-	-	-	-	-	-
Math. & Stat.	22	24	28	13	9	18	6	10	7
Med. Tech.	5	3	1	-	-	-	-	-	-
M & GL	40	54	55	9	28	18	4	6	10
Philosophy	10	7	7	3	8	4	-	1	1
Physics & Astr.	17	14	9	12	9	2	2	2	5
Pol. Sci.	53	53	63	8	6	6	-	-	-
Psychology	63	51	64	6	5	4	8	12	8
Sociology	22	32	22	1	3	2	-	-	-
Speech	10	10	10	11	15	21	-	-	-
Home Econ.*	2	1	-	-	-	-	-	-	-
M.A.T.***	-	-	-	4	27	29	-	-	-
M. Ed. Sci.***	-	-	-	4	2	-	-	-	-
TOTALS	639	638	635	170	196	201	62	72	73

\*Not departments of the College of Arts and Sciences, but major or minor is allowed under certain conditions.

\*\*Interdisciplinary programs at the doctoral level.

\*\*\*Excluding the M.A.T. and M.Ed. Science degrees, the totals for Arts and Sciences are 162, 167, and 172.

**TABLE VII**  
**BACHELOR DEGREES AWARDED**  
**BY COLLEGE OF EDUCATION**  
**WITH A & S MAJORS, 1969-71**

DEPARTMENT	1969	1970	1971
Anthropology	1	1	0
Biology	4	2	4
Chemistry	2	0	1
English	50	34	45
Geography	1	0	2
Geology	0	1	0
History	37	20	34
Journalism	0	1	0
Math. & Stat.	4	5	3
M & CL	8	6	9
Philosophy	0	0	1
Political Science	5	7	6
Psychology	0	0	0
Sociology	0	0	0
Speech	10	5	11
Communication Arts	20	13	26
Social Studies Composite	27	22	26
Science Composite	9	8	10
<b>TOTALS</b>	<b>178</b>	<b>125</b>	<b>178</b>



**TABLE VIII**  
**ACADEMIC PROBATIONS, SUSPENSIONS AND RELEASES**  
**COLLEGE OF ARTS AND SCIENCES**

SEMESTER	1968-69		1969-70		1970-71	
	No.	%	No.	%	No.	%
<b>Semester I</b>						
On Probation	246	10.1	363	14.8	135	5.3
Suspended	31	1.3	29	1.2	17	0.7
Released from Probation	94	4.0	68	2.8	69	2.7
<b>Semester II</b>						
On Probation	212	8.6	176	7.3	87	3.5
Suspended	37	1.5	7	0.3	32	1.3
Released from Probation	72	2.9	91	3.8	25	1.0

Number of students enrolled in A & S:

Semester I, 1970-71	2,541
Semester II, 1970-71	2,518

**TABLE IX**  
**DEAN'S LIST, COLLEGE OF ARTS AND SCIENCES:**  
**NUMBER OF STUDENTS WITH GRADE POINT AVERAGE OF**  
**3.00 AND ABOVE FOR WORK TAKEN IN THE SEMESTER**

Grade-Point Average	1969-1970				1970-1971			
	Semester I		Semester II		Semester I		Semester II	
	No.	%	No.	%	No.	%	No.	%
4.00	36	1.5	60	2.5	47	1.8	66	2.6
3.50-3.99	128	5.2	196	8.1	202	7.9	218	8.7
3.00-3.49	282	11.5	178	7.4	316	12.4	321	12.7
<b>TOTALS</b>	<b>446</b>	<b>18.2</b>	<b>434</b>	<b>18.0</b>	<b>565</b>	<b>22.2</b>	<b>605</b>	<b>24.0</b>

**NOTE:** % represents the percentage of the total A & S enrollment for the semester indicated.

TABLE X

**Honors in General Studies:**

Cum laude	6	
Magna cum laude	5	
Summa cum laude	<u>1</u>	12

**Departmental Honors:**

English	9	
History	1	
Mathematics	2	
Psychology	1	
Spanish	<u>1</u>	14

Graduated with Distinction: 50

**Elected to Phi Kappa Phi:**

Juniors	3 (of 4)	
Seniors	<u>32</u> (of 39)	35

**Elected to Phi Kappa Phi:**

Information Not Available this date.

Faculty Promotions, Retirements, Separations, and Appointments:PROMOTIONS:**To Full Professor:**

Roger Y. Anderson  
 Stoughton Bell  
 Iven B. Bennett  
 Philip K. Boek  
 Howard C. Bryant  
 Anthony G. Hillerman  
 William C. Martin  
 Merle Mitchell  
 Marvin L. Riedesel  
 Arthur Steger  
 Julian E. White, Jr.

Geology  
 Mathematics  
 Geography  
 Anthropology  
 Physics  
 Journalism  
 Biology  
 Mathematics  
 Biology  
 Mathematics  
 Modern and Classical Languages

**To Associate Professor:**

Jacob Jerome Brody  
 Ruben Cohos  
 Jeffrey R. Davis  
 Robert C. Dick  
 Richard N. Ellis  
 Robert Fleming  
 Gene Frankin  
 Albert M. Kudo  
 J. David Ligen  
 Ivan Melada  
 Bruce E. Porch\*  
 Howard N. Tuttle  
 Marilyn J. VanGraber  
 Mary Eess Whidden

Anthropology  
 Modern and Classical Languages  
 Mathematics  
 Speech  
 History  
 English  
 English  
 Geology  
 Biology  
 English  
 Speech  
 Philosophy  
 Speech  
 English

**To Assistant Professor:**

Dorothy Logan  
 Jonathan Porter

English  
 History

RETIREMENTS:

Stanley Newman  
 Dudley Wynn

Anthropology  
 English

\*Also being promoted to Associate Professor of Neurology, School of  
 Medicine

SEPARATIONS:

Wolfram Liepe  
 Stephan Rodefer  
 Michael Stroud  
 Warren Wagar  
 Louis Tuiga  
 Lawrence Shampine  
 Theodore Sackett  
 Mark Neuwald  
 David Bessemer  
 John Kline  
 Marilyn VanGraber

Economics  
 English  
 English  
 History  
 History  
 Mathematics  
 Modern and Classical Languages  
 Political Science  
 Psychology  
 Speech  
 Speech

APPOINTMENTS:Anthropology

Robert A. Lister

Professor and Director, Chaco  
 Canyon Project  
 Assistant Professor  
 Assistant Professor  
 Assistant Professor

Linda Cordell  
 Michael Nichols  
 Stanley Rhine

Biology

Michael L. Rosenzweig  
 Harold Alfred Mackay

Associate Professor  
 Visiting Assistant Professor

Chemistry

Douglas Neckers  
 William Coleman

Associate Professor  
 Assistant Professor

Economics

Peter Gregory  
 Peter Barth (LWOP)  
 M. Majumdar

Professor  
 Associate Professor  
 Visiting Assistant Professor

English

Shirley Guthrie  
 Jeremy Hiest  
 David R. Jones  
 Patricia Smith

Assistant Professor  
 Assistant Professor  
 Assistant Professor  
 Visiting Assistant Professor

Geography

Delmar Dyreson

Assistant Professor

Geology

Douglas Brookins  
 George Jiracek  
 Charles Siewers

Professor  
 Assistant Professor  
 Assistant Professor

History

Father John Bannon  
 Allan Gerlach

Visiting Professor  
 Visiting Assistant Professor

**History (continued)**

James Goldsmith  
 Jake Spidle  
 Gabriel Adeleye  
 Howard Rabinowitz

Visiting Assistant Professor  
 Assistant Professor (Visit. last year)  
 Visiting Instructor  
 Instructor

**Journalism**

John M. Hightower

Associate Professor

**Mathematics**

Donald Morrison  
 Robert Cogburn  
 Douglas Jackson  
 Bennett Eisenberg  
 Stephen Rosencrans

Professor (had been part-time Sandia)  
 Associate Professor (Visit. last year)  
 Associate Professor (Visit. last year)  
 Visiting Assistant Professor  
 Visiting Assistant Professor (1/2 time)

**Modern and Classical Languages**

Angel Gonzalez  
 Enrique Lafourcade  
 Sam Guyler  
 Byron T. Lindsay  
 Warren Smith

Visiting Professor, Semester II  
 Visiting Professor, Semester I  
 Assistant Professor  
 Assistant Professor  
 Assistant Professor

**Philosophy**

Wayne McEvilly  
 Russell Goodman  
 George F. Schueler

Visiting Associate Professor  
 Assistant Professor  
 Assistant Professor

**Physics**

David M. Wolfe

Assistant Professor

**Political Science**

Barry Ames  
 Paul Main

Assistant Professor  
 Assistant Professor

**Psychology**

John Gluck  
 Marc Irwin

Assistant Professor  
 Assistant Professor

**Sociology**

Pedro David  
 George Huaco  
 Joseph A. Blake

Visiting Professor  
 Professor  
 Assistant Professor

**Speech**

James Hoban  
 Lawrence Rosenfeld  
 William J. Ryan

Visiting Assistant Professor  
 Assistant Professor  
 Assistant Professor

Departmental and Faculty Items of Special Note for 1970-71:

Robert H. Lister assumed directorship of the Chaco Canyon Project; ecological and archeological surveys of the Chaco Canyon area were begun. Space in the addition to the Anthropology Building will be leased by the National Park Service for the project.

The Economics Department's first Ph.D. was awarded. David Hamilton was elected president of the Association for Evolutionary Economics. The Blake Newsletter, previously published at the University of California (Berkeley) is now being published under the aegis of the English Department, with Morris Raven serving as managing editor. The English Department undertook and successfully completed a more comprehensive evaluation by students of its courses and faculty than had been attempted by any Arts and Sciences department heretofore. The English Department sponsored the D. H. Lawrence Festival in Taos, supported by a grant from the National Endowment for the Humanities, in which an international group of Lawrence scholars participated. Sherman Wengard was elected president of the American Association of Petroleum Geologists. John Hightower, formerly Associated Press Special Correspondent and Chief of the Associated Press State Department Bureau was appointed to the faculty of the Journalism Department. Tony Hillerman's book, The Blessing Way, has gone through several editions in a very short time.

In addition to these relatively unusual occurrences, the various departments of the College continued their normal activity of research, publication, and participation in scholarly meetings. Full detail on scholarly and other professional and professorial activity is contained in the departmental reports, attached.

### Educational Developments, Problems and Plans:

The most pervasive single development was faculty approval of a change in distribution (i.e. "group") requirements, effective at the end of the 1971-72 academic year, for the bachelor's degree. Present requirements are English 101, 102, and three hours of literature; 12 hours of a foreign language; 14 hours of natural and biological sciences and mathematics of which two hours must be in laboratory work; nine hours of humanities—literature, philosophy, history, art and music criticism, speech; and nine hours of social science—anthropology, economics, geography, political science, and sociology. The new distribution requirements are a total of 36 hours taken from at least five of the following six areas: (1) communication skills, (2) foreign language, (3) art, music, architecture (other than studio courses), (4) humanities, (5) natural sciences and mathematics, (6) social sciences. At least six hours must be taken in any of the areas that are selected. Still unresolved is the status of English 101 and 102, since no change was made in the ruling that these courses are a pre-requisite for admission to the College. The College faculty expects to settle this problem in the fall of 1971. The item most debated in considering the change was the removal of an English composition requirement as a consequence of the choices open to students. Courses taken to meet area requirements may also count toward filling requirements for the major or minor. Faculty discussion over the change revealed a wide range of opinion regarding the degree of specification vs. freedom that is considered appropriate and what, if any, courses or fields should be required of all students. A number of the faculty encourage students to shift to the Bachelor of University Studies program, in order to gain freedom of curriculum choice.

The change in requirements adopted by the faculty followed about two years' work, including an extensive questionnaire sent to all Arts and Sciences faculty, on the part of Faculty Advisory Committee I and an equivalent dedication of effort by the Student Advisory Council. It will take a few years under the new requirements before the effects on enrollments will be established. In the meantime we shall maintain as much flexibility as possible in staffing.

The College submitted to the National Endowment for the Humanities a proposal to change drastically the undergraduate program on an experimental basis and limited to a relatively small number of students. The Endowment had not acted on the proposal by mid-summer 1971. On the basis of correspondence and conferences with National Endowment for the Humanities officials the likelihood of receiving the grant appears to be low, mainly because the activity transcends the humanities and because the proposal envisages such extensive changes as to forebode in the eyes of the National Endowment for the Humanities only a small probability of success. Should the Endowment refuse to make the grant, some experimental work will be undertaken without outside support.

The proposal to the National Endowment for the Humanities originated with the Arts and Sciences Faculty Advisory Committee II, consisting of Professors Peder Johnson and Marilyn VanGraber, co-chairmen, and members Elinore Barrett, Albert M. Kudo, Michael B. Sullivan, Howard Tuttle, Colston Chandler, and Harley D. Holt. Faculty Advisory Committee I, which originated changes in the group requirements, consisted of Professor Ulrich Hollstein, chairman, and Professors James Sabring, William Johnson, Donald Tailby, Scott Catlett, James Crow, E. T. Davis, John Bergen and Joseph Fashing as members.



A Student Advisory Council met by itself and with both faculty committees on various occasions and conducted a written survey among students on curriculum matters. The membership of the Student Advisory Council was as follows:

Gordon Bronitsky	Anthropology
Robert O. Moore	Biology
Wayne M. Trott	Chemistry
Floyd Wilson	Economics
Larry Guaderrama	English
Edmund L. Dubois, Jr.	Geography
Kent Winchester	History
Gwen D. Sawyer	IAA
David Brande	Journalism
John R. Gilbert	Mathematics
Patricia Baker	Modern and Classical Languages
Kerry Morris	Philosophy
James Miller	Physics
Lorenzo G. Espinosa	Political Science
Flynn O'Malley	Psychology
Philip Crump	Sociology
Chris Rowe	Speech

Mr. Crump of Sociology served as chairman. We are all deeply indebted to the members of the faculty and student advisory committees for their work of the past year.

The graduate teaching of the College received recognition in the recent ACE study on graduate education by Roose and Andersen. Included among the departments that were recognized were Anthropology, English, Geology, Spanish, and Psychology. These departments are to be congratulated for the recognition given to them in the face of the meagre resources at their disposal.

Various educational experiments were conducted in the course of the year by different departments. Psychology tried closed circuit TV. Geology (Professor George R. Clark III), by arrangement with California Institute of Technology, took students to a marine laboratory on the west

coast for a one-week crash course. Arts and Sciences departments collaborated with ethnic study programs in offering specially designed courses; various institutes and workshops were offered with outside funding; faculty offered special courses for state and local public employees; English continued to experiment at the freshman level and introduced experimental courses at the sophomore level. Details on these and others are found in departmental reports. Several changes were made in majors and minors, some of which provided for majors or minors taken by Arts and Sciences students in other colleges--e.g. minor in special education. The major in Western European Studies was abolished as was also the M.A. in international affairs. A new M.S. in mathematics with a computing science option was approved. The major in dietetics was transferred from Arts and Sciences to Education. A limit on the number of hours taken outside the College of Arts and Sciences for a bachelor's degree was removed.

The main problems facing the College stem from heavy enrollments and lack of adequate staff. The College is seriously short of senior faculty, but, at the moment, the shortage of Graduate Assistants and Teaching Assistants seems to be even more pressing. Large lecture classes could be divided into weekly discussion sections in the humanities and social sciences if we had a substantial increase in Teaching Assistants. The bulk of those presently assigned to the College go to laboratory Courses, English, and elementary foreign languages. Most other departments do not have enough Graduate Assistants and Teaching Assistants to allow the staffing of quiz sections. As a consequence these departments are further penalized when a cut-back in Graduate Assistant-Teaching Assistant strength is imposed. During the last two years we surveyed use of Graduate Assistants and Teaching Assistants in the various departments and believe that full utilization will be achieved in 1971-72 in all departments.

THE REPORT OF THE DEPARTMENT OF ANTHROPOLOGY  
JULY 1, 1970 - JUNE 30, 1971  
JOHN M. CAMPBELL, CHAIRMAN

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant achievements during the academic year, 1970 - 1971.

The 40th Annual Field Session in Anthropology, under the direction of Professor W. James Judge, was held on the 15th Century site of Tijeras Pueblo, Bernalillo County, New Mexico. This was the second season of excavations by the University of New Mexico at this locality (it was first investigated by University crews in 1948). The 1970 work was directed toward defining regional prehistoric demography. In addition to the field school at Tijeras Pueblo, two groups of University of New Mexico graduate and undergraduate students received training in archaeology and ethnology in the Central Brooks Range, Alaska, and in the Copper River and Tanana River Valleys, Alaska, under the direction of Professor Lewis R. Binford and John M. Campbell, respectively.

Other graduate and undergraduate students in anthropology participated in or conducted research projects in several states, and also in Columbia, Denmark, England, Ecuador, Israel and Peru.

During the period covered by this report, 45 graduate students of a total of 63 carried on our rolls were supported by grants-in-aid, including fellowships and assistantships, from the following organizations: Canada Council, Clover Enterprises American Indian Historical Project, Employers Club, Fulbright Graduate Fellowship, Horizon Land Corporation, National Defense Education Act, National Endowment for the Humanities, National Park Service, National Science Foundation, Rio Rancho Estates, School of American Research, Southwestern Educational Cooperative Laboratory, and the University of New Mexico.

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The following visiting scholars presented lectures or led seminars in the Department: Michael Agar (University of California at Berkeley), Linda Cordell (University of California at Santa Barbara), Edward Dozier (University of Arizona), Anthony Kroch (Massachusetts Institute of Technology), Michael Nichols (University of California at Berkeley), Stanley Rhine (Colorado State University), Carol Stack (University of Illinois) and Arem Yengoyan (University of Michigan).

Numbers 2, 3, and 4 of Volume 26 and number 1 of Volume 27 of the Southwestern Journal of Anthropology were published. This publication is sponsored by the Department and during the period reported here was edited by Professor Harry W. Basehart with Professor Newman and Associate Professor Bruce J. Rigby, Co-Editors. The Southwestern Journal now has a total of 2790 subscribers, 544 of whom reside in foreign countries. Between July 1, 1970 and June 30, 1971 subscriptions increased by 123 over the same period for the preceding year.

The Maxwell Museum of Anthropology continues to expand. In my report to you of June 1, 1970 Museum attendance was reported as about 72,450 for the period July 1, 1969 - May 30, 1970. Approximately the same number of persons attended during the period June 1, 1970 - June 1, 1971. Eight Educational Docents served during the period covered by the present report. The number of Museum tours conducted by these docents increased from 406 last year to 465 for the period covered here, and the number of visitors involved in these tours increased from 12,000 to 14,262. Because of several considerations connected with increasing Museum responsibilities, the number of pre-tours (visits to schools) was reduced, in the period described in this report, to 61 from 115 during the preceding year, and the number of school children

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visited decreased to 2,440 from 3,821. However, the total number of persons served under the Museum education program (including those who were instructed in the Museum) numbered 16,702. Foreign museum professionals from Chile, England, Yugoslavia, Rumania, Thailand and Venezuela visited the Museum in 1970-1971.

**Museum Staff** - Professor John M. Campbell was appointed Acting Director on February 1, 1971. To name a few staff activities, two major works were published by Curator, Professor J. J. Brody (see under Faculty Publications). Professor Brody participated in three museum conferences or organizations, and classes in museology were taught.

**Museum collections** - From July, 1970 to May 30, 1971, 985 specimens were accessioned. These included 58 gift accessions which numbered numerous specimens. The value of the gifts total \$88,758. The most important gifts (and their values) were from Edwin Kennedy (\$60,000), Morton Sachs (\$9,500), Dr. Scott Adler (\$6,000), Rex Arrowsmith (\$5,300), and Gilbert Maxwell (\$5,000). Loans to the Museum included 125 entries, and loans from the Museum included 44 entries.

**Museum exhibitions** - Five new permanent exhibitions were built in the Museum during the period covered here. In addition, a special exhibition on West African sculpture was held.

**Museum extension services** - Extension exhibits were prepared for the following organizations: Model Cities Neighborhood, Albuquerque; Albuquerque Public Schools; Title IV ...Cultural Awareness; the opening of the new University Law School Building; Sandia Laboratories, and an exhibition of American Indian Art for the University Fine Arts Museum. Materials and

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photographs were given to Gemini Films of New York City for use in a documentary film entitled "Bridges to the South," which will be released later in 1971.

Museum sales desk - The Museum sales desk is fast becoming a financial resource of consequence. Revenues are mainly used for the acquisition of museum specimens. Sales are computed on an annual, fiscal year basis. Gross sales for the present year will reach a total of approximately \$15,000, an increase of over 90% from the previous year. The sales desk now offers, in addition to Southwestern and Eskimo specimens, such items as African sculpture, Pre-Columbian materials, trade beads, and various exotic art objects. The desk also offers a wide selection of publications in anthropology.

I refer you to paragraph five, page three, and to paragraphs one to four, page four, in my report to you of June 1, 1970 for a description of what we have done in the way of revising our graduate and undergraduate programs these past several years, and for remarks on our philosophy of education and our accomplishments. My remarks in those paragraphs essentially describe what we have done and what we are doing. No changes in our programs have been implemented since I wrote my report last year.

During the period covered by this report we have lost one faculty member through retirement, but we have added four new members of the rank of Assistant Professor or higher. These additions give us added strength in general archaeology, Southwestern archaeology, linguistics and physical anthropology. Our excellent teaching and research staff therefore has increased in response to extraordinary student enrollment in Anthropology in this University, and to other departmental responsibilities, including the Chaco Canyon project, noted below.

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In my report to you of June 1, 1970, I described the history and background of the University of New Mexico-United States Department of the Interior Chaco Canyon Project. In summary, the progress of the Project, during the past year, is as follows: The Project was administered by Acting Director Dr. Thomas R. Lyons until 4 April 1971, when Dr. Robert H. Lister assumed the post of Director.

During the year the on-campus Chaco Project Center initiated an ecological survey of Chaco Canyon National Monument through a contract with the University of New Mexico Biology Department, and has contracted with the Department of Anthropology for an archeological survey of the Chaco Canyon area. The latter project has been organized and is being directed by Professor James Judge. Staff of the Chaco Center is preparing an extensive computerized bibliography of the Chaco and has started a data bank in which will be deposited information about all known collections of specimens, unpublished manuscripts, and photographic records from Chaco Canyon. These two activities will provide resources that will be fundamental to all future research programs undertaken by the Chaco Center.

Administrative offices, laboratories, photographic dark room and storage space for the Chaco Canyon Archeological Center will be included in the addition and remodeling of the Anthropology Building. A lease between the University and the National Park Service is now being negotiated for rental of this space.

The operating budget for the Project during the coming fiscal year will be \$160,000, provided by the National Park Service. It is anticipated that this budget will be substantially increased in coming years.

Within the past month Professor Frank W. Ikle, Chairman, Department of

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History, and I have assumed, at the request of Dean George P. Springer, the Co-Directorship of the Clover Enterprises American Indian Historical Project at the University of New Mexico. During the coming year the total operating budget for this project will be approximately \$62,000. These funds will be nearly equally expended on continuing field work, preparing and completing the archival record of data gathered to date. In each case the expenditures will include staff salaries. It is anticipated that the project, on this campus, will not extend beyond 1972.

#### B. Numbers, Achievements and Postgraduate Activities of Students.

During the 1970-1971 Academic Year, 51 students received the Bachelor of Arts Degree in Anthropology. An additional 29 students received baccalaureate degrees with a minor in anthropology. Nine students received the Master of Arts Degree in Anthropology. No students received the Ph.D. in Anthropology, but this fact does not by any means indicate that the progress we have made in producing Ph.D.'s during the past few years has suffered a set-back. On the contrary, a number of our graduate students are in the final stages of finishing dissertations, and a number of doctoral degrees will be awarded during the coming academic year. I have every reason to believe that during coming years we will maintain our established goal of producing three to six Ph.D.'s annually.

#### C. Significant Plans and Recommendations for the Near Future.

It is my pleasure to report that because of the abiding support of you, your predecessor, and the University central administration, this Department



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has achieved most of its major, concrete aims of the past several years, which have been expressed in my previous annual reports.

Naturally, the achievement of these aims (an excellent, large faculty; an accelerated and revised graduate program; greatly increased physical facilities, etc.) have in themselves created further problems of one sort or another. (The enormous recent increases in undergraduate enrollments in Anthropology have contributed in major part to our present problems).

I view none of these problems as being insurmountable. Indeed, I believe that they may be rather easily resolved. I will mention two of the major ones here (both of which I have discussed with you verbally and in writing), and explain our plans and recommendations in regard to them.

First, as I have noted in recent memoranda, this faculty believes that this Department is fast reaching the point where the appointments of additional faculty members will result in an unwieldy organization, and one which will lose effectiveness because of its size. During the coming year it is my intention to further discuss this with you, with the purpose of coming to an agreement on how large we should become. Surely, we feel that we should add no more than a very few faculty members of the rank of Assistant Professor or higher. Within this Department, during the Academic Year 1971-1972, we will discuss in detail our continuing responsibilities to the University in regard to undergraduate instruction, and related matters, and I will present you with our recommendations. Among them, very likely, will be requests for Teaching Assistants from among our doctoral students whose purpose it will be to alleviate the problems of handling enormous anthropology enrollments and classes at the freshman and sophomore level.

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Second, as I have recently written you in detail, we propose that this Department be provided with a full time administrative assistant, even if this means that we temporarily forego one new faculty appointment. In a previous memorandum, I provided you with our specific reasons for this proposal. Here, I will only mention that our Summer Field Session, our physical expansion, our huge enrollments, our large faculty and similar or related factors have brought us to unanimously agree that such a position in Anthropology is essential to maintain the progress we have made to date.

D. Appointments to Staff.

Robert Lister, Professor of Anthropology; Effective date, February 8, 1971.

Linda S. Cordell, Assistant Professor of Anthropology; Effective date, August 23, 1971.

Michael Nichols, Assistant Professor of Anthropology; Effective date, August 23, 1971.

Stanley Rhine, Assistant Professor of Anthropology; Effective date, August 23, 1971.

E. Separations from Staff.

Stanley Newman, Professor of Anthropology; Effective date, June 30, 1971.

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## II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

### 1. Advanced Study:

**Bock, P. K.**

- Promoted to Professor of Anthropology
- Began advanced study of piano with Mr. Ralph Berkowitz.

Brody, J. J.

- Ph.D. from UNM in Art History, June 1970
- Promoted to Associate Professor of Anthropology

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

Бок, Р. К.

-Concluded sabbatical leave in Mexico (thru Aug.) travelling back to Albuquerque via Morelia and Jalisco where museum and archaeological sites were viewed.

Hibben, F. C.

- Summer Field Sessions at Rio Rancho and Tome
- Travelled to Yugoslavia, outer Mongolia.

Judge, W. J.

-Summer Field Session in Archaeology,  
Colorado State University, 1970.

Souñler, J. N.

-Travel Amsterdam, Vienna, Zurich, and London. Aug.-Sept. 1970.

3. New scholastic honors, fellowships, etc.:

Campbell, J. M.

-Appointed Research Scientist, Project Staff, ATNA.

Spolsky, B.

-AGLS travel grant to attend Interdisciplinary Approaches to the study and teaching of Modern Languages, conference convened by the Center for Information on Language Teaching, London, England.

#### 4. Publications:

Baschert, H. W.

-"Endogenous Determinants of Social Structure," a review of Kinship and the Social Order, by Meyer Fortes, Science, 1970, vol. 170, no. 3954, pp. 151-153.

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Publications (cont.)

- Binford, L. R. -Archaeology at Hatchery West, Memoirs of the Society for American Archaeology, No. 24, American Antiquity, Vol. 35, No. 4, Oct. 1970.
- Bock, P. K. -Review of "Modernization Among Peasants" by Rogers and Swenning, in American Anthropologist, Vol. 72, pp. 381-383, April, 1970.  
-Review of "Frontiers of Cultural Anthropology" (Symposium, American Philosophical Society), American Anthropologist, Vol. 72, Oct., 1970.
- Brody, J. J. -"The Kiva Murals of Pottery Mound", Verhandlungen des XXXVIII Internationalen Amerikanistenkongresses, Band II, 1969, Munich & Stuttgart (pub. 1970), pp. 101-110.
- Campbell, J. M. -"The Hungry Country" in: Culture Shock: A Reader in Modern Cultural Anthropology, ed. by Philip K. Bock, Alfred A. Knopf, New York, 1970, pp. 165-170.  
-"Arctic" in Current Research, American Antiquity, Vol. 35, No. 2, pp. 239-244.
- Morgan, K. -"Gene Flow and Structure of United States Negro Populations," submitted for publication in Social Biology.
- Newman, S. -"Bella Coola Reduplication". International Journal of American Linguistics, in press.  
-Review of "The Prehistory of Language" by Mary Haar, in Lingua, in press.
- Rigsby, B. -"A Note on Giksan Speech-Play" International Journal of American Linguistics, Vol. 36, pp. 212-215, 1970.
- Schwerin, K. H. -"Apuntes sobre la Yuca u sus Origenes," Boletín Informativo de Antropología, Vol. 7, pp. 23-27, Caracas, 1970.  
-"The Anthropology of the Caceques," Cacicazos. Caciquismo in Caciquismo in the Ibero-American World, ed. by Robert Kern and Randal Bollart, Albuquerque, in press.

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Publications:

Spolsky, B.

- "TESL and Bilingual Education Urged." The Gallup Independent, Jan. 27, 1970. Reprinted in TESOL Newsletter, Vol. 4, No. 1, Feb. 1970.
- "The Language Teacher in the Computer Age" Teaching English as a Second Language: Current Issues, Ed. by Robert Lugton, Chilton Press, 1970.
- TESOL. In Chap. 11 of Britannica Review of Foreign Language Education, Vol. 2, 1970. Edited by Dale L. Lange, pp. 323-340.
- Navajo Language Maintenance: Six-year-olds in 1969. Language Sciences, No. 13: 19-24. Research Center for Language Sciences, Dec. 1970.
- "Reviewer's Reply." Language Sciences, Aug. 1970.

Springer, G.

- "The Elusive Indian Student" with Michael Trujillo, Graduate Education and Ethnic Minorities, Western State Commission for Higher Education, Boulder, Colorado, 1970, pp. 53-63.

5. Other Research Projects or Creative Work in Progress or Completed During the Period:

Barrett, R. A.

- Revision of doctoral thesis for publication in Holt, Rinehart and Winston case study monographs.

Basehart, H. W.

- Two book reviews for Journal of Asian and African Studies, one for American Anthropologist (in press).
- Further research on Matengo (Tanzania) settlement patterns.
- Book in "Family Organization" (20,000 words) for McGaleb-Sectes.

Einford, L. R.

- Mousterian Interassemblage Variability; National Science Foundation, \$31,000, June 1971.
- Economy of Caribou Hunting: Past and Present; Wenner-Gren Foundation, \$17,000, June 1971.

Beck, P. K.

- Eight months (Jan.-Aug. 1970) field research in peasant village in State of Morelos, Mexico. Began analysis of field data.
- Contracts signed for Spanish edition of his text, Modern Cultural Anthropology, to be published by Fondo de Cultura y Economica, Mexico City.

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Other Research Projects (cont.)

Brody, J. J.

- Indian Painters and White Patrons, 250 pp. in press, UNM Press, to be published Jan. 1971.
- Model Cities Museum Program, completed Aug. 1970, sponsored by Albuquerque Model Cities, \$3,000 grant, from June to August 1970.
- Eskimo Art, in progress, co-authored with Dr. John M. Campbell.

Campbell, J. M.

- Peneak's Book: An Account of Man and Nature in Cold Climate; in progress.

Ellis, F. H.

- four reviews in press
- one long article in press, El Paso Archaeological Society Monograph.
- one long article, in proof, in book on witchcraft.
- two valuable books on southwestern archaeology and ethnology, just being completed.
- Excavations (research with field school) six weeks in Chama Valley.

Judge, W. J.

- Excavation, historic trading post at Ft. Vasquez, Colorado.
- Excavation, prehistoric bison drive, Livermore, Colorado.
- Proposal submitted, Initial Archaeol. Survey, Chaco Canyon Research Project, UNM.

Spolsky, B.

- "Reduced Redundancy as a Language Testing Tool". Selected Proceedings of the 2nd International Congress of Applied Linguistics, Cambridge, September 1969. Cambridge University (in press).
- "Linguistics and Education: Overview". Current Trends in Linguistics, Vol. 12, in press.
- "Linguistics and the Language Barrier to Education." Current Trends in Linguistics, Vol. 12, edited by Thomas A. Sebeok, Arthur S. Abramson, Dell Hymes, Herbert Rubenstein, Edward Stankiewicz, and Bernard Spolsky. Mouton & Co. (In press).
- "The Language Barrier to Education." Paper to be read at a conference sponsored by the Centre for Information in Lang. Teaching.
- Language and Education: An introduction to educational linguistics.

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Other Research Projects...etc. (cont.)

Spolsky, B. (Cont.)

- Studies related to the Navajo Reading Study. Nuveen Co., Bureau of Indian Affairs and UMM Research Allocations Committee.
- Studies on the Assessment of language Dominance.
- Current Trends in Educational Linguistics. to be publ. Mouton, Winter '72.

Spuhler, J. N.

- "Genetic, Linguistic, and geographical Distances in North America" in vol. ed. by J. S. Weiner, Oxford University Press (in press).
- "Assortitive Matings in Human Populations" in volume edited by G. A. Harrison, Blackwell's (in press).
- continued work on Biological Anthropology to be published by Prentice Hall, Spring, 1972.

6. Activities in Learned and Professional Societies:

Barrett, R. E.

- Paper, "Metropolitan Prestige and Peasant Agriculture in Benabarre, Spain." read at conference on Research Trends in Mediterranean Society and Culture, Queens City University of New York, New York, October, 1971.

Binford, L. R.

- Annual Address, "The Origins of Agriculture", Society of Sigma Chi.

Bock, P. K.

- Paper, "The Formal Content of Ethnography" read at Annual Meeting of Amer. Anthro. Assn., San Diego, Calif., Nov. 1970.
- Co-chairman of session on "Models."

Brody, J. J.

- Appointed to Constitution Comm. of the Mountain-Plains Museum Conference, Dallas, Texas, Sept., 1970.
- Program Chairman for N. M. Museum Assoc., Albuquerque, New Mexico, Dec. 1970.
- Executive Committee member of organization.
- Pecos Conference, Aug. 1970.

Campbell, J. M.

- Annual Meeting, Society for American Archeology, Norman, Okla.
- Attended Annual Meeting, Amer. Anthrop. Assoc., San Diego, Nov., 1970.

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Activities in Learned & Prof. Soc. (Cont.)

- Campbell, J. M. (Cont.) -Biannual Meeting, Governors, Arctic Institute of North America, Montreal, P.Q.
- Ellis, F. H. -Paper read at Society for American Archaeology, Mexico City.  
-Meeting of Soc. for Ethno-history (Executive Comm.), Montana.  
-Two papers given, one as part of symposium, Pecos Conference.  
-Dinner speaker for Annual Meeting, El Paso Archaeological Society.
- Judge, W. J. -Am. Anthropol. Assn., Annual Meeting, San Diego, Calif.
- Morgan, K. -Membership in American Eugenics Soc. (beg. Nov.-Dec., 1970).
- Rigsby, E. -Attended 5th International Salishan Conference, Gonzaga University, Spokane, Washington, Aug. 1970.
- Schwerin, K. H. -Paper, "Arawak, Carib, Ge, Tupi: Cultural Adaptation and Culture History in the Tropical Forest." 39th International Congress of Americanists, Lima, Peru, 2-9 August, 1970. (To be published in the Proceedings of the Congress).  
-Paper, "La Reforma Agraria en el Ecuador - Perspectiva y Futuro." Ponencia presentada al 39º Congreso Internacional de Americanistas, Lima Peru, 2 al 9 de agosto 1970. (to be published in the Proceedings of the Congress).  
-additional papers, still in press, reported on Biographical Supplement for the period June, 1969 to June 1, 1970.
- Springer, G. F. -Exec. Comm. of Council of Graduate Schools.  
-President Western Association of Grad. Schools.  
-Advisory Council on the Test of English as a Foreign Language. College Entrance Examination Board, 1970-1971.



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Activities in Learned & Prof. Soc. (Cont.)

Spuhler, J. N.

- Member of the Editorial Board: Human Biology.
- Member of editorial Board: American Journal of Physical Anthropology.
- Paper given at conference on "Demography and the biological and Social Structure of Human Populations", Berg Wartenstein Aug. 1970.

7. Other Professional Activities

Besehart, H. W.

- Chairman, Cultural Anthropology Fellowship Review Committee, National Institute of Mental Health Meetings: Dec. 1970, Washington, D.C.

Binford, L. R.

- Lecturer: University of Oregon, "Variability in Sand Structure," Dec., 1970; University of Utah, "The New Archaeology," Nov. 1970, University of California, "The Mid-Paleolithic Arctic Adaptations", Nov. 1970, University of Texas, "The Munamut Eskimos," Dec. 1970; University of Eastern New Mexico, "Analysis of Archaeological Data", June 1970.

Brody, J. J.

- Juror, Indian Crafts, Gallup Ceremonial, N.M., Aug. 1970.
- 4 exhibit cases changed, Maxwell Museum.
- Advisory Board Member, Seton Memorial Museum, Cimarron, N.M.
- Lecture, Aesthetics Institute, Taos, June, 1970.
- Lecture, N.M. Teachers Convention, October, 1970.
- Radio Talk, November 1970
- Lecture, Museum of New Mexico docents, December 1970

Campbell, J. M.

- Executive Sec., Arctic Institute of North America.
- Bureau of Land Management, Alaska Archaeological Project.
- Elected Board of Governors, Arctic Institute of North America.

Hibben, F. C.

- Lectured, University and Community Functions.

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Activities in Learned & Prof. Soc. (Cont.)

- Morgan, K. -Lecture and consultation on Monte Carlo simulation in Anthro., at University of North Carolina, Chapel Hill, Dec. 16-18, 1970.
- Newman, S. -Reviewer of research proposal for the National Endowment for the Humanities.  
-Member, Advisory Editorial Board, Linguistic Inquiry (M.I.T. Press)
- Rigsby, B. -Workshops in Sahaptin practical orthography and grammar for adults at the White Swan Community Centre, Yakima Reserv., Aug. 1970 and Jan. 1971.
- Springer, G. P. -"The Sound of Music - Who needs it?" Address presented to Holloman Branch of the Research Society of America.  
-University Forum - A T.V. series, moderated by Hubert Alexander.
- Spuhler, J. N. -Member of Conference on Genetic Control of Disease, Washington, D.C., Dec. 1970.  
-Member of Panel for Asian Studies under Fulbright-Hayes Act, Institute of International Education.

8. Non-Teaching University Service:

- Barrett, R. E. -Anthropology Department faculty secretary.
- Basehart, H. W. -Editor, Southwestern Journal of Anthropology.  
-Graduate Advisor, Anthropology.
- Bisford, L. R. -Director, Doris Duke Oral History Project.
- Bock, P. K. -Conference on University Governance.  
-Chairman of University Committee on Visiting Speakers.
- Brody, J. J. -Curator, Maxwell Museum; Committee Member, Campus Planning Committee.  
-Comm. on the Fina Arts Museum.  
-UNM Rural Land Com. (Jim Young Ranch),  
-University College Advisor.
- Campbell, J. M. -Advisor, Campus Veteran's Association  
-Committee on the University.  
-Appointed co-director, Doris Duke Oral History Project.  
-Chairman, Department of Anthropology.

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Non-Teaching University Service:

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|-----------------|--|
| Ellis, F. H.    | -Advising University College Students.   |
| Hibben, F. C.   | -Director, Maxwell Museum  |
| Judge, W. J.    | -Faculty administrator of Departmental Library Fund, Zimmerman Library.  |
| Morgan, K.      | -Faculty Advisor, UNM, Fall Semester, 1970-1971  |
| Newman, S.      | -Co-editor, <u>SWJA</u>  |
| Rigsby, B.      | -Associate Editor of <u>SWJA</u> .<br>-Undergraduate advisor for anthropology majors.<br>-Research Policy Committee.   |
| Schwerin, K. H. | -Member, Advisory Council on Environmental Studies.<br>-Chairman, five dissertation committees   |
| Sebring, J. M.  | -Assistant Chairman of Anthropology Department.<br>-Advisor for Indo-American Student Association.   |
| Spolsky, B.     | -Grad. Comm., Member of Sub-committee on Limitation; Chairman, Joint Committee on Evaluating of Academic Program.<br>-Member of Task Force on Cultural Diversity, College of Education.<br>-Chairman, Coordinating Committee for the Program in Linguistics and Language Pedagogy. |
| Springer, G. P. | -Dean of the Graduate School and Vice-President for Research, UNM.   |
| Spuhler, J. N.  | -Chairman, Publications Committee.   |

9. Public Service

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|-----------------|--|
| Hibben, F. C.   | -Chairman, N.M. Game and Fish Commission<br>-Chairman, Albuquerque Zoo Board |
| Springer, G. P. | -Needs and Resources Committee, Community Council of Albuquerque.            |

# The Report of the Department of Biology

July 1, 1970 - June 30, 1971

Loren D. Potter, Chairman

## I. General Departmental Information

### A. Significant Achievements During the Academic Year, 1970-71.

There are now about 375 undergraduate biology majors including sophomores, juniors, and seniors. This total includes 51 Pre-medical, 28 Medical Technologists, 17 Pre-dental, and 4 Pre-veterinary. About 71% of the majors are male. Of the 110 graduate biology majors, about one-third are post-master status or Ph.D. candidates. The number of Ph.D. candidates has increased rapidly in recent years and the increase in number completing degrees is just starting as is indicated by the usual number of one or two per year to seven in 1970-71. This number will continue to increase. Over half the graduates attend without support from assistantship or research funds. Many of these are from the public schools, Sandia Base, Lovelace Foundation, or those having a spouse who is working.

Efforts continue to bring to the department new viewpoints of biological science through a regular series of guest lecturers to departmental seminars and in cooperation with Phi Sigma Honorary Biological Society which is the main sponsor of biologists of national and international reputation. These are brought to the campus for a seminar, informal discussions with interested students, and an after-dinner address to Phi Sigma. Representative speakers follow:

1970-71:

- Dr. D. W. Tinkle, Univ. of Michigan  
Evolution of Life History Phenomena in Lizards
- Dr. Harold J. Evans, Oregon State Univ.  
Electron Transport Systems & Nitrogenase in Nodules of Legumes
- Dr. Stephen T. Emlen, Cornell Univ.  
Unsolved Problems of Bird Navigation
- Dr. Paul Licht, Univ. of California, Berkeley  
Hormonal Regulation of Reproduction in Reptiles
- Dr. George A. Bartholomew  
Evolution of Polygamy in Seals and Sea Lions

In addition to the above, the following were invited as departmental guest speakers to departmental seminars in 1970-71:

Dr. Nail Jensen, Weber St. College  
Blood Proteins in Mammalian Systematics

Dr. Daniel Henning, U.N.M.  
Environmental Administration

Dr. Walter Whitford, N.M.S.U.  
Desert Biome Program

Dr. Clifford Crawford, U.N.M.  
Today's Problems in Environmentally Orientated Community

Dr. Jon Martin, Univ. Melbourne  
Cytological Evolution in the Genus Chironomus

Dr. Sidney Solomon, U.N.M. Med School  
Some Factors Affecting Functional Development of the Kidney

Mr. J. Scott Altenbach, Colo. St. Univ.  
Locomotor Morphology in the Vampire Bat as Demonstrated  
by High Speed Photography

Dr. Joseph V. Scaletti, U.N.M. Medical School  
Aspects of Circular DNA

Dr. George Ettershank, Monash Univ., Australia  
Ecology & Microclimatology of the Australian meat-ant,  
Iridomyrmex purpureus.

The cooperative research program of the Association of Western Universities resulted in an increased number of undergraduates and graduates being appointed to conduct summer research at Lovelace Foundation and the AEC in physiology and radiation biology. This summer one of our new faculty members, Dr. Paul Kerkof will be working in radiation biology under that program.

The establishment of the National Park Service Chaco Canyon Research Center on the UNM campus, in which the Biology Department was actively involved, has resulted in a research grant to graduate students Art Dunham and Kirkland Jones under the direction of Dr. William Degenhardt. The latter continues to serve as a consultant for Big Bend National Park.

The establishment of at least one cooperative research agreement per year with the Rocky Mountain Forest and Range Experiment Station continues with Dr. Gordon Johnson doing studies of drought tolerance.

During the year, two National Science Foundation grants have been completed, one is by Dr. James Findley and one is by Dr. David Kidd. One new one has been approved to Drs. David Kidd and Loren Potter to study the biological eutrophication of Lake Powell and its shoreline vegetation and the incidence of heavy metals. This is part of a large multi-discipline NSF study.

Several projects have been funded by the New Mexico Water Resources Research Institute. One by Drs. David Kidd and Gordon Johnson being completed July 1, 1971 on primary productivity and analysis of nutrients in Elephant Butte Reservoir and one to begin by the same individuals on July 1, 1971 on nutrient supplies for algae and mercurials in Elephant Butte Reservoir. Also beginning in July, Dr. James Gosz has received support from the same Institute for a study of hydrologic nutrient cycle interactions in undisturbed and man-manipulated ecosystems.

During the 1970 summer, Dr. Gordon Johnson was director of the department's last AEC sponsored Research Participation Summer Institute in Radiation Biology for College Teachers, ending fifteen years of involvement in summer institutes in radiation biology.

The Middle Rio Grande Conservancy has supported a preliminary survey of Salmonella and Shigella pollution of the Rio Grande by Dr. John Beakley.

Drs. Clifford Crawford and Howard Dittmer have become involved in the research studies of the Desert Biome under the International Biological Program.

There is an encouraging increase in research being done under the sponsorship of UNM Research Committee funds to nine faculty members. But, even more encouraging is the number of active research programs with outside support current this year which involve more undergraduate and graduate research assistants than ever before in the department. At a time when there is a lull in federal support, there is a healthy increase in research proposals submitted and pending approval - a total of seven to NSF, IBP, NIH, and the Research Corporation by Drs. Clifford Crawford, William Degenhardt, Howard Dittmer, Donald Duszynski, James Findley, Marvin Riedesel, and Paul Kerkof.

The departmental faculty continue to be active in sponsoring biological societies and efforts involving scientists and non-professionals of the state by activities such as the New Mexico Ornithological Society and the Herpetological Society, Cactus Society and Audubon Film Series, Nature Conservancy, and as guest lecturers to many groups. Much public service is also offered in identifications of biological materials and various consultancies on many biological problems.

Several faculty members are active in reviewing research proposals for NSF, serve on editorial boards of national professional societies, or on boards of directors.

Perhaps the greatest stimulus to the department was the coincident appointment of three new excellent faculty members in the same year, Drs. Paul Kerkof, James Gosz, and Donald Duszynski in the fields of Cellular Physiology, Physiological Plant Ecology, and Parasitology respectively. Their youth and vigor, the presence of three at one time, and the impact of additions in closely related fields to those of existing faculty members providing a sense of vital, critical mass were invaluable to the department.

During the 1970-71 year, about 95 BA and BS degrees in biology, 4 BS in Medical Technology, 22 M.S. degrees, and 6 Ph.D degrees were awarded.

#### B. Significant Plans and Recommendations for the Future:

Progress toward the approval of and planning for a large, well-equipped, science lecture hall is most welcome as it is becoming nearly impossible to reasonably schedule the many large classes in the few poorly equipped present lecture rooms.

The administration is urged to continue and increase the pressure for recognition that graduate enrollment be considered by the legislature at a different support level than undergraduates. There simply is not enough money to properly support a large graduate program which is vital to a university of this size.

We have recently made several faculty additions which have produced a core of individuals with related interests and a "critical mass" effect which is resulting in cooperative research planning and effort between faculty members. This will have a stimulating and enriching effect on graduate education as well. For the first time, we have several joint research proposals with co-investigators. This is to be encouraged. The addition of a specialist in population dynamics, Dr. Michael Rosenzweig, who combines theoretical mathematical modelling with experimental field research will prove to be a valuable link between several professors and for many graduate students and at the same time provide a new outlook in the department.

The addition of 2 - 3 more faculty members will fill the facilities of the physical plant of the biology building. It is very soon time to begin planning for an addition as was discussed at the time the present addition was planned.

#### C. Appointments to Staff:

The equivalent of 36 graduate assistants, although only 34 were budgeted, were appointed in 1970-71. Appointments were made for 3 Curatorial Assistants, 3 NSF Trainees, 1 NDEA Trainee and 1 Danforth Fellow.

Mrs. Margery Herrington was appointed as Preparator for the general biology programs, Mr. Jerry Jorgenson was appointed as animal room caretaker in February 1971.

Faculty appointments made for 1971-72 include: Dr. Michael Rosenzweig as Associate Professor in a new position with emphasis in population dynamics. We consider this a major appointment in a modern emphasis on non-traditional line and in the direction and spirit of the Danforth report on the department.

Dr. Hal Mackay was appointed as Visiting Assistant Professor on a one-year basis to fill in for Dr. William Martin who was granted a leave of absence for 1971-72.

Mr. Edgar Evinger was reappointed as Botanist and consultant for the greenhouse on a temporary, part-time basis.

D. Separations from Staff:

Mr. Jack Culley was replaced as animal caretaker in February 1971.



II. Composite of Information Requested on Individual Biographical Supplements: (July 1, 1970-Jan. 1, 1971)

1. Advanced study

Duszyński, Donald W., 1) Ph.D., Colorado St. Univ. (Zoology) Aug., 1970.

2. Sabbaticals, leaves, etc.

Degenhardt, William G., 1) Collecting, Virgin Islands.

Findley, James S. 1) Canadian Maritime Provinces.

Traut, Gerald L. 1) Program Director, Summer 1970, Philmont Scout Ranch, Cimarron, N. Mex.

3. New scholastic honors, fellowships, etc.

Duszyński, Donald W. 1) Phi Kappa Phi, Colo. St. Univ. July, 1970. 2) Phi Sigma, Univ. of N. Mex., Dec. 1970.

Hoff, C. Clayton, 1) Listed in Dictionary of International Biography, 6th edition, 1970. 2) Reappointed (3 yrs) Research Associate, Dept. of Entomology, The American Museum of Natural History.

4. Publications

Crawford, Clifford S., 1) 1970. Lethal temperatures of some arthropods of the southwestern U.S. Entomol. Mon. Mag. 106:26-29. 2) 1970. Water and temperature relations, and diurnal rhythms of scolopendromorph centipeds. Ent. Exp. Appl. 13:187-193.

Dittmer, Howard J., 1) Modern Plant Biology, Van Nostrand Reinhold (in press).

Duszyński, Donald W. 1) Hymenolepis microstoma: Early histopathologic changes in mouse bile duct. Trans. Amer. Micro. Soc. 89:274-276. (with C.R. Sanborn & W.C. Marquardt).

Findley, James S., 1) 1970. Warm-season changes in fat content of Eptesicus fuscus. Jour. Mamm., 51:160-162 (with Neil Weber). 2) 1971. Spermatogenesis in neotropical Myotis. Jour. Mamm., 52:00-00. 3) 1970. Reproductive cycle of a neotropical insectivorous bat, Nature, 225:1155. (with Don Wilson). 4) 1970. Phenetic relationships in the genus Myotis. Bijdragen tot de Dierkunde, 40:26-29, Amsterdam. 5) 1970. Geographic variation in the western pipistrelle. Jour. Mamm., 51:741-765. (and G. Traut).

4. Publications - continued

Kidd, David E., 1) 1970. Some Strategies for the Study of Natural Science: A Laboratory Guide to Principles of Biology. Offset printing, U.N.M.

Ligon, J. David, 1) Still more responses of the Poor-will to low temperatures. Condor, 72:496-498.

Martin, William C., 1) 1970. A Flora of the Sandia Mts., Biology Dept., Offset printing, 319 pp. 2) 1970. A Teaching Manual for the Flora of New Mexico, Biology Dept., mimeo., 54 pp.

Potter, Loren D., 1) 1970. Vegetative reproduction of fourwing saltbush in New Mexico. J. Range Manage. 23: 371 (with R. G. Woodmansee).

Traut, Gerald L., 1) 1970. Geographic variation in Pipistrellus hesperus. J. Mammalogy 51:741-765. (with James S. Findley).

5. Other research projects in progress

Beakley, John William, 1) Short term study (preliminary) on pollution of the Rio Grande (isolation of Salmonella spp.)

Booth, James S., 1) Bacteriology section of "An Analysis of the Impact of the Waste Water Effluent of the City of Albuquerque on the Water Quality of the Rio Grande." Sponsored by the NM Municipal League and the City of Albuquerque. November 30-December 30. \$3000 grant made to Dr. Calvin Patterson, C.E. UNM.

Bourne, Earl W., 1) Effects of certain synthetic steroids on fish cells in vitro (in progress).

Crawford, Clifford S., 1) Submission of papers and literature search on sod webworm moths. 2) Water-balance studies on millipedes and scorpions. 3) Preliminary studies of millipede population in Sonoran desert (travel funded by Internat. Biol. Program).

Degenhardt, William G., 1) C. inornatus & C. neomexicanus paper - accepted Copeia, 2) Bufo boreas paper - submitted editor, 3) More specimens of Tantilla cucullata obtained so paper recalled for additions - now revising, 4) Research allocations grant, \$2,000 for oscilloscope, 5) Chief investigator for Chaco Canyon ecological survey, grant \$4,000, Nat. Park Serv.

Dittmer, Howard J., 1) Biomass of higher plant material of sagebrush community in northern N. Mex., UNM Grant \$700, 2) Participant in Intern. Biol. Program, Desert Biome.

5. Other research projects - continued

Duszynski, Donald W., 1) Host & parasite interactions during single & concurrent infections with Eimeria nieschulzi & E. separata in the rat. (In review) J. Protozool. 2) Eimeria separata: Observations on the increase in size of the oocyst during patency. (In review) J. Parasitol. 3) UNM Grant in aid of research. \$1,500. Investigation into the cellular transfer of specific & cross-immunity to two species of coccidia in the rat.

Findley, James S., 1) NSF Grant (Systematics of bats of Genus Myotis) \$35,000, completed Jan. 1, 1971; 2) UNM Res. Alloc. Comm. grant "Water balance in rodents" \$1795. Awarded 18 Nov.; Current research: 3) effects of light & temp. on gonad size in bats; 4) morphology of bat phalli; 5) occurrence and structure of lobial papillae in bats; 6) analysis of aerodynamics of bat wings; 7) Mammals of N.M.; 8) phenetics of bats of genus Myotis; 9) phenetics as a tool for niche definition.

Gosz, James R., 1) Research project initiated: Nutrient cycling and energy flow in undisturbed and man-manipulated ecosystems.

Hoff, C. Clayton, 1) An instance of pseudoscorpion-spider phoresy (with Daniel Jennings); 2) a new species of pseudoscorpion found on the tympanum of moths; 3) pseudoscorpions phoretic on cerambycid beetles in Sitgreaves National Forest, Arizona.

Johnson, Gordon V., 1) Water Resources Res. Instit., \$9,919. An investigation of primary productivity using the <sup>14</sup>C method and an analysis of nutrients in Elephant Butte Reservoir (with Dr. D. Kidd), 7/1/70-6/30/71, 2) U.S. Forest Service, Coop. Res. Grant \$2,200, Drought tolerance of alkali sacaton seedlings, 6/3/70-12/31/71.

Johnson, William W., 1) Analysis of Drosophila melanogaster courtship in relation to mating speed and locomotor activity.

Kidd, David E., 1) N. Mex. Water Res. Instit., July 1, 1970-June 30, 1971. \$9,919. An investigation of primary productivity using the carbon <sup>14</sup>C method and an analysis of nutrients in Elephant Butte Reservoir (with Dr. G. Johnson), 2) Vice-Pres. Comm. on Research. \$2678. July 1, 1969-June 30, 1971, 3) UNM Res. Comm. \$1000. July 1, 1970-June 30, 1971.

## 5. Other research projects - continued

Ligon, J. David, 1) Accepted for publ.: Late summer-autumnal breeding of the Pinon Jay in New Mexico. Condor, Summer 1970; and 2) Notes on the breeding of the Sulphur-bellied Flycatcher in Arizona. Condor, Summer 1970, 3) Paper ready, Pinon Seed assessment by the Pinon Jay (with D. L. Martin), Studies in progress: 4) Gonadal and behavioral cycles in the Pinon Jay; 5) Discrimination-reversal learning in three species of North American jays (with J. Cully and K. Branch); 6) Pterylography, molt, and age determination in the Pinon Jay; and 7) The annual reproductive and food cycles of the Pinon Jay.

Martin, William C., 1) Continuation of completion of ms., for the comprehensive "Flora of New Mexico", 2) studies in the genus Ribes.

Potter, Loren D., 1) 1970. Natural reproduction of Eurotia lanata in New Mexico. In press. J. Range Manage. (with R. G. Woodmansee) 2) Ecology of Walakpa Bay, Alaska Area. Submitted to Arctic Institute, 3) ms. on comparison of flora of arctic tundra with Mt. Wheeler & Blanca Peak, 4) Plant ecologist on national Glen Canyon Study Team, 5) Preliminary plant ecological investigations, Glen Canyon, John Muir Institute, \$200, 6) Study of impact of public use of east slope of Sandias, John Muir Institute, \$1500, 7) Preparation with David Kidd of research proposal on ecological study of Lake Powell and coordination with Dartmouth, Columbia University, John Muir Institute, and Prescott College.

Riedesel, Marvin L., 1) 1971. Copy-edited ms. returned. Evaporative thermoregulation in turtles. Physiol. Zool. (with J.L. and Anne Cloudsley-Thompson). 2) 1971. Galley proofs returned. Respiratory quotient as an index of selective tissue catabolism by water-deprived laboratory rats and Spermophilus lateralis. Comp. Biochem. and Physiol. (with Gary L and Lorelei B. Bintz).

Traut, Gerald L., 1) In process of writing laboratory exercises for non-major freshman course.

## 6. Activities in learned and professional societies

Bourne, Earl W., 1) Amer. Soc. for Cell Biol. - Nov. 1970 San Diego.

Degenhardt, William G., 1) Soc. for the Study of Amphibians and Reptiles - annual meetings attended, Kansas City, Aug. 27-30, 2) Chm. of Comm. for 1971 joint meeting, Soc. for the Study of Amphibians and Reptiles and the Herpetologists League.

## 6. Activities - continued

Dittmer, Howard J., 1) President-elect N.M. Acad. of Sci.

Duszynski, Donald W., 1) Sept. 1970. Internat. Cong. of Parasitology, Wash. D. C. 2) Sept. 1970. Joined SWAP (Southwestern Assoc. of Parasitologists).

Findley, James S., 1) June, 1970. Annual Meeting Amer. Soc. Mammalogists, College Station, Texas. (read paper); 2) Index editor, Editorial board, Board of directors, Amer. Soc. Mammal; 3) paper read at Tucson in Nov. at SW Bat Res. Conf.

Gosz, James R., 1) Presented paper at AIBS annual meeting.

Hoff, C. Clayton, 1) Member of Fellowship Comm. RM&SW Div., AAAS.

Kidd, David E., 1) Nat. Assoc. of Biology Teachers: OBTA State Director. 1970-71; 2) CUEBS Library Selection Comm. for Preparation of Reading Lists. 1970; 3) Invited to be NABT article referee and/or book reviewer, 1970 to present.

Martin, William C., 1) Sec., UNM Chap., The Society of the Sigma Xi. 2) Attended National Meeting of Sigma Xi, Nov. 1970.

Potter, Loren D., 1) Pres. of RM & SW Div., AAAS, 2) Editorial service for Ecology, Ecol. Soc. of Amer., 3) Reviewer for NSF Res. Grant requests, 4) Attended national meeting of AAAS and Council.

Riedesel, Marvin L., 1) (Abst. accepted) Urine volume and urinary nitrogen of dehydrated ground squirrels and rats. Hibernation-Hypothermia IV Internat. Symposium, Jan. 3-8, 1971, Snowmass, Colo. to be published in Cryobiology, May-June 1971, (with G.L. Rigler); 2) paper at 55th Annual Meeting Fed. of Amer. Soc. for Exper. Biol. April 12-17, 1971, Chicago, (with G.L. Rigler); 3) short-term nitrogen balance studies of water- and food-deprived ground squirrels, supported in part by NSF Grant GB5339; 4) Attendee, 1970. A symposium on bat research in the Southwest, Univ. of Ariz. and Arizona-Sonora Desert Museum, Nov. 27-28, Tucson; 5) Organizer, 1971. Health related problems in arid lands, symposium, Comm. on Desert and Arid Zones Res., RM & SW Div. AAAS. April 22-23, Ariz. St. Univ.

## 7. Other professional activities

Crawford, Clifford S., 1) Lecture on pest control and pesticides in UNM Comm. Coll. course "Our threatened environment"; 2) Talk on "Open space" in the State-wide Land Use Planning Symposium.

7. Other professional activities - continued

Degenhardt, William G., 1) Reappointment as Nat. Park Serv. Collaborator for 3 years, 2) Member of Big Bend Res. Advisory Council.

Dittmer, Howard J., 1) Judge, State Sci. Fair; 2) Evaluate Summer Sci. Institute, NMTI; 3) Talks to high schools in Deming, Bernalillo, Rotary, Panhellenic, Delta Kappa Gamma; 4) Ms. rev. for Amer. J. Botany; 5) Consultant on emission damage to vegetation in Silver City area, Kennecott Smelter.

Johnson, Gordon V., 1) Director, and teacher summer institute for college teachers entitled "Research Participation in Radiation Biology", 6/15-8/15/70, U.S. ABC, \$23,050. 2) Radio & TV interviews concerning studies at Elephant Butte (KNME-TV).

Kidd, David E., 1) KOAT-TV 7, Project Seven, 28 minutes; 2) Member of UNM Speakers Bureau, 1970; 3) Comm. College lectures on Eutrophication.

Koster, William J., 1) Responses to public inquiries on fish and aquatic biology.

Ligon, J. David, 1) Colloquium given to Department of Biology, New Mexico State University.

Martin, William C., 1) Consultant - Poison Control Center.

Potter, Loren D., 1) Paper on "Effects of Burning" to N.M. Wildlife Soc.; 2) lectures on Concepts of Ecology - Comm. College course; 3) lectures on Concepts of Ecology - Architect 281 and review of Environ. Projects; 4) lectures on Ecology to Bus. Adm. course on Ecological Organization; 5) Consultant to National Park Service on cooperative research program with UNM on Chaco Canyon; 6) Consultant to John Muir Institute on ecological problems of environment.

Riedesel, Marvin L., 1) Reviewer, Res. Grant Proposals, Physiological Processes Section, NSF; 2) Sec. Comm. on Desert & Arid Zones Res., RM & SW-Div., AAAS; 3) Lecturer AIBS, Visiting Biologists Program for Colleges; 4) Lecturer, N. Mex. Acad. of Sci., Visiting Scientist Program for Jr. & Sr. High Schools.

8. Non-teaching University service

Beakley, John William, 1) Chm., Registration Comm.; 2) Med. Tech. Adviser; 3) Faculty Adviser to Med. Tech. Club; 4) Faculty Adviser to Campus Crusade for Christ, Int.

8. Non-teaching University service - continued

Bourne, Earl W., 1) Curriculum Comm. (Biol. Dept.); 2) Faculty advisor; 3) Chm. Pre-professional Comm.; 4) Health Sciences Planning Comm.

Degenhardt, William G., 1) Dept. Grad. Comm.; 2) Curator of the Herpetology Division of the Museum of Southwestern Biology.

Dittmer, Howard J., 1) Assoc. Dean AAAS. Committees; 2) Biol. Curric., 3) Entrance & Credits, 4) Ad hoc on Grade Change, 5) Environmental Council, 6) Popejoy Professorship, 7) Classified Res. Comm., 8) Scholarship Competition for high school essays in science and humanities, 9) A & S Scholarship, Chm.

Findley, James S., 1) AF+T Comm.; Ad hoc Committees: 2) Chairman evaluation (A&S); 3) Coll. of Educ. grad program evaluation (.S.); 4) faculty evaluation (A&S) for Biol. Dept.

Hoff, C. Clayton, 1) Advisor to Biology majors, 2) member of the UNM Publ. Comm. 3) in charge of selection of biology books for Zimmerman Library.

Johnson, Gordon V., 1) Univ. Library Comm. 2) Comm. on Radiological Control, 3) Univ. Coll. advisor.

Johnson, William W., 1) A & S Advisory Comm., 2) Supervisor of Biology Sectioners.

Kidd, David E., 1) University Computer Use Committee; 2) directed four summer AEC visiting professors, summer, 1970; 3) faculty advisor; 4) Dept. Grad. Sel. Comm., 1969-70; 5) Dept. Curric. Comm.

Ligon, J. David, 1) Curator of Birds, Mus. Southwestern Biol. 2) Biol. Dept. rep. co-sponsoring National Audubon Soc. film series.

Martin, William C., 1) Curator of the Herbarium; 2) Biol. Dept. Grad. Comm.; 3) major advisor; 4) pre-forestry advisor.

Potter, Loren D., 1) Member, Lawrence Ranch Adv. Comm.; 2) member, Adv. Comm. on Teacher Education; 3) Faculty advisor, UNM Ski Club; 4) Jim Young - Farrer property Univ. Adv. Comm.; 5) Spec. Comm. appt. by Vice President Travelstead on summer session; 6) UNM Grad. Comm. and Chm. of Subcomm. on grading; 7) Chm. A & S comm. on salary adjustment; 8) Advisor of biol. grad. students; 9) Planning Comm. for Sci. Lecture Hall; 10) Chm. of Biology Dept.

## 8. Non-teaching - continued

Riedesel, Marvin L., 1) Research Policy Comm. and Subcomm. Appts.: Patent Res. and Bylaws and Guidelines; 2) Member Biology and Biology of Man In Task Forces for Health Sci.; 3) Chm., Dept. Grad. Comm.

Traut, Gerald L., 1) Biology Dept. Seminar Chm; 2) UNM Curricula Comm.; 3) Phi Sigma Biol. Honorary Adv.; 4) Univ. Coll. Advisor.

## 9. Public service

Beakley, John William, 1) Deacon, Hoffmantown Baptist Church; 2) Teacher, Adult Men Bible Class.

Bourne, Earl W., 1) Mental Health Soc.

Crawford, Clifford S., 1) Pres. N. Mex. Conserv. Coord. Council, Inc. 2) Member, Cibola National Forest Multiple Use Advisory Council.

Johnson, Gordon V., 1) Local board member of United Ministries Counseling Center.

Ligon, J. David, 1) Assist. Scout Master, Troop 166.

Martin, William C., 1) Administrative Board, Central Methodist Church.

Potter, Loren D., 1) Vice-Pres., N. Mex. Zoological Soc.; 2) Participation in Albq. Museum Assoc. tours on "Albq. Futures".

Riedesel, Marvin L., 1) Comm. Chm. Boy Scout Troop 166.

## 10. Personal information

Duszynski, Donald W., 1) Married 29 August, 1970.

Johnson, Gordon V., 1) Daughter, Lizabeth J. Johnson born 8/30/70.



## THE REPORT OF THE DEPARTMENT OF CHEMISTRY

July 1, 1970 to June 31, 1971

Guido H. Daub, Chairman

I. General Departmental InformationA. Significant Achievements during the Academic Year 1970-71.

Eleven undergraduate majors received the B.S. degree and twenty-one students received the B.A. degree in Chemistry. Two students received the Masters degree and six students received the Ph.D. degree. This is comparable to the previous year.

The department purchased a Perkin-Elmer Model 621 Infra-red Spectrophotometer from its permanent equipment budget. This instrument will be used primarily for graduate level research and research performed by advanced undergraduates. The department was also able to purchase additional research equipment, specifically, an atomic absorption instrument for use in the undergraduate Advanced Quantitative and Instrumental Analysis laboratory as well as some special equipment needed for Dr. R. D. Caton's research. These latter items were purchased through funds acquired from the National Science Foundation Institutional Grant and funds provided by the administration.

The department has now been using the new addition to the Chemistry building for one year and most of the bugs have been removed.

The undergraduate laboratories in both Organic Chemistry and Advanced Quantitative Analysis have been used heavily and one recent visitor to the department remarked that they were the best looking undergraduate laboratories he has seen.

Professor Hansen's Career Development Award from the National Institutes of Health was renewed and he is now beginning his third year. He will be spending the next year performing research at different laboratories in Canada, Florida and other places in the U.S.A. He is expected to return to the campus during the summer of 1972.

The Biochemistry program, jointly sponsored by the Department of Chemistry of the A&S College and the Department of Biochemistry of the School of Medicine has progressed smoothly. The success of this program is evident from the fact that two graduate students, Kathleen Gavey and Eric Manley are presently doing research for their advanced degree with Dr. T. J. Scallen, and Laing-Po BeBe Han and Shirley Han are presently active on research with Dr. David VanderJagt. Mrs. Han will be a new graduate student in the Chemistry Department this fall. The members of the Biochemistry Department have joined our staff in several professional and social functions during the past year. We are getting more inquiries from prospective graduate students about the Biochemistry program than ever before. We hope that this relationship will continue to grow in the future years.

The combined wood and metal shop stockroom man, who was added in February 1970 has resigned and been replaced with a full-time stockroom man. This leaves the department without a person who can design and build items needed for the department from wood and metal. It is hoped that we may obtain the services of a senior in the Department of Industrial Education to fill the void.

The Department of Chemistry as well as the Departments of Biology and Geology have benefited greatly by the acquisition of an electronics technician, Mr. Earle George. A successful program of repair and maintenance of the electronic and other equipment in these three departments has been carried out by Mr. George.

The members of the department have been working during the past year on the establishment of some form of governance for the department. Dr. Ulrich Hollstein has been chairman of the departmental Governance Committee and although the task is not as yet complete considerable progress has been made with regard to the establishment of a chain of command and committees to function within the framework of the Department.

The department, through the committee headed by Dr. E. A. Walters, has continued to modify and improve the graduate program. Although some revisions have been made officially in our program over the last year much work is yet to be done and hopefully this task may be completed soon.

It appears that the general rapport between the faculty, graduate students and undergraduates has been excellent during the past year. One method of improving faculty student relationships has been to hold one evening seminar per month which has been followed with a social gathering where faculty and students alike discuss their views on the Chemistry department's program as well as other topics of mutual interest.

All graduate students are personally acquainted with faculty and vice versa. I believe that this encouragement of faculty and students to meet with each other on a social basis has helped greatly in faculty-student relationships.

B. Significant Plans and Recommendations for the Near Future.

Renovation plans for the old building have not been completed and it is hoped that these changes which were in the plans may be completed during the next two years. One of the major needs of the department is a glass blower, particularly one who has a college degree and who can not only take care of the glass blowing needs of the department, but one who is qualified to offer technical courses in glass blowing, especially to students at the graduate level. It is recommended that such a person be added to the staff by July 1972. I would recommend that a committee be appointed, composed of members from Chemistry, Biology, Physics, Engineering and the Medical School, to look into the possibility that such a person be hired as the University glass blower. He could be housed in the Chemistry building but he would do glass blowing for, and give technical advice to the University community as a whole. I am sure that the services of such an individual would greatly benefit the University.

The Chemistry Department still has need for additional permanent equipment both for use at the graduate research level and undergraduate and graduate teaching level. A recommendation for how these equipment needs might be met was

submitted to the Dean's office on May 24, 1971. In this recommendation it was proposed that the department be provided with \$266,494 over the next three years for the purchase of such needed equipment. Part of this money is to come from a proposed grant request to the National Science Foundation, with the rest coming from capital equipment funds provided by the administration, the Chemistry Department permanent equipment account, the Research Allocations Committee, and the NSF Institutional Grant Committee. All of this is spelled out in the memo of May 24, 1971 and I refer you to this document for details. I would suggest that the resolution of this proposal would take care of many of the needs proposed by the Danforth Committee on upgrading the graduate program in the Department.

The State Fire Marshall inspected the Chemistry building during the last year and was critical of several aspects regarding safety conditions in the building. One item which was of concern to him was the fact that none of the refrigerators used to store chemicals was of the explosion-proof type. These explosion-proof refrigerators are quite expensive (approximately \$700 each) and it would be a major expense if we were to replace all of our refrigerators with this type. Perhaps a compromise would be to purchase three such refrigerators for storage of flammable chemicals and put rigid restrictions on what kind of chemicals could be stored in the refrigerators we now have. Some of the

laboratories were found not to have adequate fire blankets and this is another expense which will have to be borne by the department unless some financial assistance is given to correct these deficiencies. We also have need for a suitable fire alarm system in the old building as well as an emergency lighting system in case of electrical failure. I do not believe the departmental budget will be able to bear the cost of these needed items.

The Chemistry Department also has a need for a larger number of graduate assistants than the seventeen now provided by the administration. If we are to avoid overcrowded laboratories which greatly reduce our teaching effectiveness and also creates a health hazard, additional graduate assistants are needed. Our program for the fall of 1971/72 will require an additional  $8\frac{2}{3}$  graduate assistants above the seventeen initially budgeted. This figure might be modified some when the final enrollment figures are available later on in the summer of 1971. I should mention that funds have been provided by the administration for the addition of the equivalent of  $8\frac{2}{3}$  graduate students as a combination of graduate and undergraduate help. It would seem that the number of graduate assistantships allotted to Chemistry should be materially increased for future years. All of our graduate assistants are actively used in the teaching program as laboratory instructors.

It has recently come to my attention that Dr. Bernard Kenna of Sandia Laboratories will no longer be able to assist us in our teaching program as a part-time associate

professor beginning with the academic year 1972/73. The loss of Dr. Kenna's services will be a serious blow to our teaching program in the analytical area. It is recommended that consideration be given to have a teaching post-doctoral position in the Department of Chemistry for the years 1972/73 and 1973/74. This would enable the department to fill the void left by Dr. Kenna's absence with the temporary appointment of a person who has recently received his Ph.D. in Analytical Chemistry. The reason for having such an appointment be effective only for the 1972/73 and 1973/74 school years is that at the end of that time Dr. Hansen's Career Development Grant will be at an end and he should be back to full-time teaching. When this time arrives, I am confident that adjustments in teaching loads within the department can probably be made to keep our teaching load in Analytical Chemistry for Professors Caton and Vanderborgh at a reasonable level.

C. Appointments to the Staff.

Dr. William F. Coleman has been appointed as Assistant Professor for the coming year in Chemistry. Dr. Coleman will teach and conduct research in Inorganic Chemistry. Dr. Coleman has just completed a one year post-doctoral appointment at the University of Arizona. He is a highly qualified individual both as a teacher and researcher. The addition of this man to the staff will greatly improve its effectiveness.

Dr. Douglas C. Neckers has been appointed as Associate Professor in Chemistry. Dr. Neckers will teach and conduct research in the field of Organic Chemistry. He has been on the staff of Hope College for the past seven years. He is an excellent teacher and researcher and has recently been awarded a Sloan Fellowship by the Alfred P. Sloan Foundation. He is one of 77 young scientists selected from 500 nominees for their outstanding research potential on the basis of nominations by senior colleagues familiar with their work.

Mr. Earle George joined the department in September 1970 as a Senior Electronics Technician. His services are shared jointly by Chemistry, Biology and Geology and he is being effectively used by all three departments.

Mrs. Elizabeth Eckman joined the staff on December 7, 1970 as Departmental Secretary. She came to us from the Indian Community Action Project of ISRAD.

Mr. Albert V. Schnoebelen was hired in June 1971 to replace Mr. Chad Fidel who resigned as storekeeper and metal-wood shop foreman on June 18, 1971. Mr. Schnoebelen will take over Mr. Fidel's duties as stockroom keeper.

D. Separations from the Staff.

Mrs. Karen Mayfield resigned as Department Secretary on December 10, 1971.

Mr. Chad Fidel resigned his position as metal-wood shop foreman and storekeeper as of June 18, 1971.



II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced Study:

- (a) WILLIAM M. LITCHMAN: Summer faculty traineeship awarded by AWU from July 1, 1970 to September 4, 1970 at Los Alamos Scientific Labs, New Mexico.

2. Sabbaticals, Leaves of Absence, Summer Teaching Elsewhere, Travel, etc.

- (a) DONALD R. McLAUGHLIN: Sabbatical leave begun in June at Lawrence Radiation Laboratory, Livermore, California. Working in theoretical physics department on large computer programs to determine theoretical properties of atoms and molecules with high accuracy.
- (b) LEE DUANE HANSEN: Attended American Chemical Society Meeting in Toronto, Canada, Bio-Inorganic Symposium in Blacksburg, Va. and Calorimetry conference in Gaithersburgh, M.D.
- (c) ULRICH HOLLSTEIN: Summer 1970 Los Alamos Scientific Laboratory research on triple stranded DNA.
- (d) EDWARD A. WALTERS: Travelled to University of Montana, Washington State University and University of Utah for consultation; consulted with National Science Foundation and Department of Justice on scientific matters.

3. New Scholastic Honors, Fellowships, etc.

- (a) E. P. PAPADOPOULOS: Member of the New York Academy of Sciences. Member of the American Institute of Chemists.

4. Publications:

## (a) DONALD R. McLAUGHLIN:

"Calculation of the Attractive He Pair Potential",  
Henry F. Schaefer, II, Donald R. McLaughlin, Frank Harris  
and Berni Alder, Physical Review Letters, Vol. 25,  
pp. 988-990, 12 October 1970.

## (b) LEE DUANE HANSEN:

"Thermodynamics of Proton Ionization from some Substituted  
Unsaturated Five-membered Nitrogen Heterocycles",  
Journal of Heterocyclic Chemistry, 1, 991-996 (1970),  
Co-authors: E. J. Baca, UNM. and P. Schreiner, Mobil  
Research and Development Corporation.

## (c) NICHOLAS E. VANDERBORGH:

N. E. Vanderborgh, N. R. Armstrong and W. D. Spall, "A  
Cryoscopic Study of the Association of Phenolic Compounds  
in Benzene", J. Phys. Chem., 74, 1734 (1970).

N. E. Vanderborgh, W. T. Ristau, "Simplified Laser Degrada-  
tion Inlet System for Gas Chromatography", Analytical  
Chemistry, 42, 1848 (1970).

N. E. Vanderborgh, W. T. Ristau, "Laser-induced Degradation  
of Hydrocarbon Compounds Analyzed Using Gas-Liquid Chroma-  
tography", Anal. Chem., 43, submitted for publication.

N. E. Vanderborgh, W. D. Spall, and N. R. Armstrong, "A  
Cryoscopic Study on the Effect of Solvent on the Association  
of Acetic and the three Chloroacetic Acids", Chem & Eng. Data,  
accepted for publication.

"Beta Luminescence: A Method for the Analysis of Effluents  
from Liquid Chromatographic Columns", submitted for patent  
consideration: patent pending.

"Interdependence in Chemistry", Chapter in Interdependence",  
A. Bahm, Editor, University of New Mexico Press, 1971

## (d) ULRICH HOLLSTEIN:

"Interaction of Phenazines with Polydeoxyribonucleotides",  
Biochemistry, in press.

## (e) E. PAUL PAPADOPOULOS:

"The Thermal Interconversion of Quinoline and Isoquinoline,"  
J. M. Patterson, C. H. Issidorides, W. T. Smith, Jr., E. P.  
Papadopoulos, Tetrahedron Letters, 15 pp. 1247-1250, 1970.

## (f) WILLIAM M. LITCHMAN:

Nitrogen-15 Nuclear Magnetic Resonance Shifts in Me<sub>3</sub><sup>15</sup>N-Solvent Systems", J. Am. Chem. Soc., 92, 4828 (1970).

A Thermometric Titration Experiment for Analytical and Physical Chemistry, J. Chem. Ed.

<sup>15</sup>N NMR Shifts and Coupling Constants for the Methylamine Hydrochlorides in Aqueous Solution, J. Phys. Chem.

## (g) MILTON KAHN:

A Final Report for Sandia Corporation, Contract No. 16-9187, 14 pages with N. Stalnaker.

"Fast Neutron Activation: Sample Preparation Utilizing Graphite as a Solvent", M. Kahn, N. Stalnaker, B. T. Kenna, Journal of Radioanalytical Chemistry, accepted for publication.

## (h) ROY D. CATON, JR.

A Unique Procedure for Recruiting Students into Selected Courses", Journal of Chemical Education, Vol. 47, p. 633, Sept. 1970 with James C. Moore.

5. Other Research Projects or Creative Work in Progress or Completed during the Period.

## (a) ROY D. CATON, JR.

Ion exchange of metal ions in nonaqueous solvents using macro-reticular resins.  
Electrooxidation of substituted nitro-anilines.  
Large cations as analytical reagents.

## (b) MILTON KAHN

Development of Activation Analysis Procedures for the Determination of Elements in Organometallic Compounds.

The Distribution of Iodine Between Cyclohexane and Aqueous Solutions, Manuscript in preparation.

The Isotopic Exchange of Iodide-13 Absorbed on Preformed Silver Iodide with Dry Dilute, Nonaqueous Solutions of Molecular Iodine with G. E. Van De Steeg. Manuscript in preparation.

## (c) WILLIAM M. LITCHMAN

Nitrogen 15 studies of solvent induced shifts.  
Effects of metal ions on nitrogen-15 chemical shifts.  
PMR studies of solvent induced shifts.  
Matrix-isolation studies of microwave produced free radicals.

## (d) E. PAUL PAPADOPOULOS

Research Corporation \$4,000 Reactions of especially reactive isocyanates and isothiocyanates with selected heterocyclic compounds.

## (e) ROBERT E. TAPSCOTT

A Stereochemical Investigation of Tartrate(4-)-Bridged Binuclear Complexes, "PRF/ACS, Grant #4251-AC3, \$20,000, Sept., 1969-Sept., 1971.

Stereospecific Reactions of Oxovanadium alpha-Hydroxycarboxylates and Metal Complexes of 1,2-Dihydroxy-1,2-Cycloalkanedicarboxylic Acids, both funded by Research Allocations Committee of this University.

## (f) EDWARD A. WALTERS

"Activated Proton Transfer", National Science Foundation Grant No. GP-10596, \$22,000, June 1, 1969-May 31, 1971.

Isotope Effects on Hydroxide Ion.

## (g) ULRICH HOLLSTEIN

Investigation of Alkaloids of New Mexican Plants, \$6,500, January 1, 1970-December 31, 1970, NIH.

Biosynthesis of phenazines, \$13,000, February 1, 1970 to January 31, 1971, NIH.

Interaction of phenazines with polycycoxyribonucleotides, \$500, September, 1969 to August, 1970, UNM, \$500, September, 1970 to August, 1971, UNM.

Synthesis of modified ( $N_2$ -substituted)-deoxyguanosines.

Synthesis of C-13 labeled compounds.

## (h) NICHOLAS E. VANDERBORGH

Laser-Induced Degradation Determination of the  $pK_a$  of HF in EtOH/H<sub>2</sub>O mixtures; Solvent Effects upon Acidity.

Acid-Base Titrations in Sulfolane Measurement

Measurement of the Composition of Gaseous Mixtures by Ultrasonic Velocity Measurements.

Analysis of Shortlived Degradation Products Using ToF Mass Spectrometry.

## (i) LEE D. HANSEN

"The Evaluation of aqueous TRIS Solutions as a Chemical Standard for Titration Calorimetry", Journal of Chemical Thermodynamics, in press.

LEE D. HANSEN (CONT'D)

Electrostatic and Resonance Energy

Effects in Proton Ionization from Pyridinecarboxylic and Aniline-sulfonic Acids", J. of Amer. Chem. Soc., in press.

Effects of Hydrocarbon Chain Length on the Thermodynamics of Formation of bis-(n-Alkylamino)silver(I) Complex Ions", in press.

"A Thermometric Titration Experiment for Analytical & Physical Chemistry", submitted to J. of Chem. Ed.

(j) GUIDO H. DAUB:

Liquid Scintillators. Steric effects, lifetime studies, fluorescence efficiencies, self-quenching studies, photooxidation of 2,5-diphenyloxazole (PPO).

Synthesis of azobenz[a]pyrenes and study of their effects as carcinogens and anticarcinogens.

(k) DONALD R. McLAUGHLIN:

Research was performed on high dimensional numerical integration. This has in part been documented by Robert Pexton as an internal report at Lawrence Radiation Laboratory, Livermore, Calif.

6. Activities in Learned and Professional Societies.

(a) DONALD R. McLAUGHLIN:

Attended conference on Potential Energy Surfaces in Chemistry, August 10-13, 1970, University of California, Santa Cruz, Calif.

(b) GUIDO H. DAUB:

Member: Sigma Xi, Phi Kappa Phi, Phi Lambda Upsilon, ACS, AAAS, Fellow, Blue Key, Alpha Chi Sigma, Sigma Xi Advisory Board.

Papers: The following papers were presented at the International Symposium on Organic Scintillators and Liquid Scintillation Counting in San Francisco in July 1970:

A Stereochemical Approach to Self Quenching Studies in Some Bridged p-Quaterphenyl Systems with T.W. Whaley and F.N. Hayes

Lifetime, Fluorescence Efficiency and Scintillation Studies on Some trans-1,2-Diarylethylenes with R.B. Lehmann, F.N. Hayes and J. Yguerabide

The Photo-Oxidation of 2,5-Diphenyloxazole (PPO), with M.E. Ackerman F.N. Hayes and H.A. Mackay

(c) LEE D. HANSEN:

Attended American Chemical Society general meeting in Toronto.

Attended conference on Bio-Inorganic Chemistry, Blacksburg, Va.

Presented paper at Calorimetry Conference held in Gaithersburg, Md.

(d) NICHOLAS E. VANDERBORGH:

Lecture at Sandia Laboratories on September 20, 1970, "Gas Chromatography", Part of course on Modern Methods of Materials Characterization.  
 Attended Electroanalytical Chemistry Symposium, Summer ACS Meeting Las Cruces, New Mexico, June, 1970.  
 Effects of Pulsed Energy Deposition (Symposium) November, 1970, South-East/South-West Regional ACS Meeting, New Orleans, La., December 2-4, 1970.  
 Paper Read: Laser-Induced Degradation of High Temperature Polymers.  
 Reviewer: Analytical Chemistry  
 Professional Societies: American Chemical Society, Division of Chem. Ed. (ACS); Division of Anal. Chem. (ACS), Fellow, the Chemical Society (London), AAUP.

(e) ULRICH HOLLSTEIN:

May 1970, National Meeting American Chemical Society, Toronto Canada.  
 November, 1970, Regional Meeting, ACS, New Orleans, La.

(f) EDWARD A. WALTERS:

Gordon Research Conference on Isotopes in Seattle, Wash.  
 Relected advisor of Central New Mexico Section of ACS.  
 Attended SEctional Meetings of ACS in Los Alamos, Santa Fe and Albuquerque.

(g) ROBERT E. TAPSCOTT:

Member of membership Committee local section of Sigma Xi.  
 Attended most local ACS meetings.

(h) WILLIAM M. LITCHMAN:

Paper accepted for spring meeting ACS in Los Angeles

(i) MILTON KAHN:

Member of Sigma Xi; Phi Kappa Phi; ACS, Inorganic-Physical Sections; AAAS (fellow); New Mexico Academy of Science

(j) ROY D. CATON, JR.:

Central New Mexico Section of ACS; Councilor & Educational Secretary.

7. Other Professional Activities.

(a) ROY D. CATON, JR.:

Consultant; Sandia Corporation Headquarters, Test Command, USAF.  
 Lecture, October 5, 1970 to Sandia Laboratory employees on "Ion Exchange Theory and Techniques".

(b) MILTON KAHN:

Served as a referee for manuscripts submitted for publication in Chemical Review.  
Served as referee for a manuscript submitted for publication in the Journal of Physical Chemistry  
Participated in the preparation of a standardized Physical Chemistry Exam sponsored by the ACS.

(c) WILLIAM M. LITCHMAN:

Teaching a course in square dancing at UNM.  
Director of Lloyd Shaw Dance Institute held at UNM.  
Presented seminar at University of Texas, El Paso, Dec. 11, on "Relaxation Times of Nitrogen-15 in the Methylamines.

(d) EDWARD A. WALTERS:

Designed new course, "Chemistry for the Citizen".  
Gave seminar on research at University of Montana.

(e) ULRICH HOLLSTEIN:

Cooperative research with Los Alamos Scientific Laboratory.

(f) NICHOLAS E. VANDERBORGH:

Consultant for Sandia Laboratories.  
Submitted Proposal for establishment of a Criminalistics Institute.  
Submitted proposal to NSF for Laser-Induced Degradation for the Identification and Characterization of Polymeric Material.  
Grant from Sandia Labs for \$4000.00 for Material Analyses.

(g) GUIDO H. DAUB:

Referee for papers submitted to Org. Chem. and J. Heterocyclic Chem.

(h) DONALD R. McLAUGHLIN:

Consultant to Lawrence Radiation Laboratory, Livermore, Calif. from UNM.

8. Non-teaching University Service.

(a) GUIDO H. DAUB:

Chairman of Athletic Council until September 1, 1970.  
Advisor to freshmen in University College.  
Acting Chairman in Department of Chemistry.

(b) LEE D. HANSEN:

Served as Chairman of Research Allocations Committee.

(c) NICHOLAS E. VANDERBORGH:

Chairman, University Library Committee  
Chairman, Department Library Committee and Department Safety Com.  
Member, Graduate Student Recruitment Committee  
University College Advisor - 38 advisees.

(d) ULRICH HOLLSTEIN:

University College advisor.  
Chairman, A&S Advisory Council, Sub-committee I  
Chairman, Department Graduate Recruitment Committee

(d) EDWARD A. WALTERS:

Chairman, Graduate Studies Committee.  
Member: Undergraduate Curriculum Committee, Radiological Safety Committee and Dean's Ad Hoc Committee on Salary Schedules.

(f) ROBERT E. TAPSCOTT:

Chairman, General Chemistry Committee.  
Member: Graduate Recruitment Committee, Graduate Studies Committee, Undergraduate Curriculum Committee  
Member: A&S Sciences Promotional Committee:

(g) E. PAUL PAPADOPOULOS:

Member: Graduate Studies and Library Committees.

(h) WILLIAM M. LITCHMAN:

Member: Seminar & Stockroom Committees.  
A&S Advisor  
Caller for Wagonwheels Square Dance Club & Exhibition Team.

(i) MILTON KAHN:

Member: Woodrow Wilson National Fellowship Foundation Committee, General Honors Council, Research Policy Committee, Sub-committee on Classified Research for Research Policy Committee and Sub-committee on Budget for Research Policy Committee.  
Department Committees: Seminar, Governance, Graduate Studies,

(j) ROY D. CATON, JR.:

University College advisor  
BUS advisor  
Faculty sponsor of Student Affiliates of the ACS.  
Faculty sponsor of the UNM Varsity Ski Team.  
Departmental Committees, Chairman: Undergraduate Curriculum Committee.  
Member: Graduate School Fellowship Selection Committee.



9. Public Service.

(a) WILLIAM M. LITCHMAN:

Professional square dance caller  
Secretary of the Central New Mexico Caller's Association.

(b) EDWARD A. WALTERS:

Treasurer of Lutheran Campus Council.  
Chairman, Youth Board of Faith, American Lutheran Church.

(c) LEE D. HANSEN:

Active in church and Boy Scouts.

(d) GUIDO H. DAUB:

Member of Governor's Scientific Advisory Committee,  
State of New Mexico.

(e) DONALD R. McLAUGHLIN:

Active church member and participated in Boy Scouts as Merit  
Badge Counselor.

The Report of the Department of Economics

July 1, 1970 - June 30, 1971

Sanford Cohen, Chairman

I. General Departmental Information

A. Staff size has grown sufficiently to permit some regularization of offerings at the graduate level. Most of the specialized area seminars are now cycled for an every other year offering. Additions to faculty have added depth in various areas and the number of "one-man fields" has decreased to tolerable proportions. Quantitative economics has become one of our stronger fields and graduate students have responded in that a number have selected econometrics as a field.

The level of success in the comprehensive theory examination has risen. After a number of years marked by repeated student failures, three students performed successfully. One of these, David Mishaeli, went on to complete all additional requirements for the Ph.D. and, thus, is the recipient of the Department's first doctorate.

Enrollment growth at the undergraduate level continues to cause problems. The general approach has been to offer Economics 200 to giant sections and Economics 201 to smaller sections of 30 to 35 students. Smaller enrollments continue to frustrate the plan for 201 and the several sections tend to grow to 50 or more students

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despite the addition of more sections. Classes at the 300 level are also considerably larger than they should be.

B. We have approximately 75 undergraduate majors and 55 graduate students. As was the case the year before, one of our undergraduate majors won an NSF fellowship. The winner this year, Mr. Randall Mercer, will continue his studies at Yale University. Mr. Floyd Wilson will graduate with departmental honors.

C. New staff appointments will permit an expansion of program in both the Latin-American and labor fields. Our search for additional staff to supplement the natural resources program was not successful. Efforts in this direction will continue next year.

D. New appointments to staff include:

Dr. Peter Gregory, Professor, (Fall, 1971)  
Dr. Peter Barth, Associate Professor, (Fall, 1971)  
Dr. Lee Zink and Dr. David Sandoval of the Bureau of Business Research were appointed associate professor and assistant professor, respectively, Spring, 1971.

E. Separations:

Prof. Wolfram Liepe (June, 1971)  
Visiting Associate Professor C. Roberts (June, 1971)

## II Summary of Staff Record

1. Assistant Professor Albert Church received the Ph.D., Claremont Graduate School, January, 1971.
2. Professor Sanford Cohen was Consultant to CORDIPLAN, Venezuelan Economic Planning Agency, Caracas, Venezuela, Summer, 1970.

II. Cont.

2. Cont.

Associate Professor Gary Hufbauer was advisor to the Government of India on export policy, Summer, 1970.

Associate Professor Paul Jonas is completing the second year of a two year leave to serve as a USAID official in India. He will resume his duties as associate professor of economics at the start of the Fall Term, 1971.

3. No new scholastic honors.

4. Publications:

Shaul Ben-David - Associate Professor

"Interregional Competition in Dairy and Vegetable Production," Special Cornell Series No. 9, 30 pp, 1970

Gerald J. Boyle - Professor

Planning-Programming-Budgeting in New Mexico, October, 1970, 378 pages.

PPBS Supplement to the Executive Budget, March, 1971, 166 pages.

New Mexico Commission on Aging, Survey of the Aging in New Mexico: Facilities and Characteristics, 1970, November, 1970, 171 pages.

New Mexico Bureau of Revenue, Ratios of Tax Payments to Income by Income Class: New Mexico, 1970, April 1971, 44 pages.

New Mexico Department of Hospitals and Institutions, Roswell Rehabilitation Center: Special Analysis, January 1971, 67 pages.

New Mexico Department of Finance and Administration, The Girls Welfare Home: Alternatives for the Future, February, 1971, 26 pages.

## II Cont.

## 4. Cont.

F. Lee Brown - Assistant Professor

"Exact Finite Sample Density Functions of GCL Estimators of Structural Coefficients in a Leading Exactly Identifiable Case," Journal of the American Statistical Association, March, 1971, 5 pages.

"The Exact Finite Sample Distribution of a GCL Estimator of the Structural Variance Parameter," Texas A & M Technical Report Series, 30 pp.

Sanford Cohen - Professor and Chairman

"Puerto Rico's Development Paradox", Growth and Change, July 1970.

"A Note on the Burden of Dependency in Low Income Areas," Economic Development and Cultural Change, April, 1971.

Micha Gisser, Associate Professor

"Linear Programming Model for Estimating Agricultural Demand Function for Imported Water in the Pecos River Basin," Water Resources Journal, August 1970, Vol. 6, No. 4

"A Model for Agricultural Policy," American Journal of Agricultural Economics, February 1971, Vol. 53, No. 1.

David Hamilton - Professor

Evolutionary Economics, UNM Press, Revision of 1953 book

Review of Louis M. Kohlmeier, "The Regulators: Watchdog Agencies and The Public Interest", Journal of Consumer Affairs, Fall 1970.

Gary Hufbauer - Associate Professor

"The Impact of National Characteristics and Technology on the Commodity Composition of Trade in Manufactured Goods", in Raymond Vernon, editor, The Technology Factor in International Trade, Columbia University Press, 1970, pp. 145-231.

II Cont.

4. Cont.

Alfred Parker, Associate Professor

The Regulation of Public Utilities, Natural Resources Journal, Vol. 10, No. 4., October 1970, pp. 827-839 (13 pages)

T. Norman Van Cott - Assistant Professor

Review of G. Sirkin's, Introduction to Macroeconomic Theory, Fall Number, 1970, Inter-Mountain Economic Review.

Nathaniel Wollman, - Professor

"Arid Lands in Transition," in Harold Dregne (ed.) Economics of Land and Water Use, American Association for Advancement of Science, 1970.

5. Research Projects:

Shaul Ben-David

Rio Grande Economic Evaluation, Sponsored by Office of Water Resources Research, to be completed in 1972. \$29,000

Gerald J. Boyle

Director of the Planning-Programming-Budgeting System project for the State of New Mexico. This project is being funded by the Department of Housing and Urban Development through the State Planning Office and includes the cooperation of six other agencies--the goal of the project is to design, initiate and begin the implementation of a PPB system for the state government during the period July 1, 1969 to June 30, 1971. During the past 20 months we have met our objectives: the design and initiation have been completed; substantial effort has gone into training agency personnel; and the first steps toward implementation are now being taken (the funding level for this project was about \$120,000 for each year).

II Cont.

5. Cont.

Gerald J. Boyle (Cont.)

Survey of the Aged in New Mexico; Facilities and Characteristics, 1970. This work was done under contract to the State Commission on Aging and included a mail questionnaire as well as a survey of existing information on characteristics and facilities. This work was done under a 100 day contract at a cost of \$10,500, completed in November 1970.

Contract with the New Mexico Governor's Policy Board for Law Enforcement. The main effort under this contract is to develop a design for the basic components of a computerized criminal justice information system. The contract period is September 1, 1970 to June 30, 1971 and was funded at \$15,000.

Contract with the Urban Observatory of Albuquerque. This project calls for a projection of revenues of governments operating within the Albuquerque SMSA and a projection of their expenditures. This will result in a quantified revenue/expenditure gap for these governments and give grounds for recommending alternative means of closing the gap. This project is to be completed during calendar year 1971 and is funded at \$39,000.

Joint contract with the New Mexico Bureau of Revenue and the Department of Finance and Administration. The work included development of a methodology for long-run revenue estimating, a study of tax burdens by income classes, as well as a technical analysis of individual and corporate income tax returns. The contract period runs from June 1, 1969 to May 30, 1971 and was funded at \$47,000.

F. Lee Brown

Statistical investigation of theories of the consumption function (unsponsored)

Estimation of Capital-Water Elasticities of Substitution in U.S. Manufacturing," Office of Water Resource Research, \$10,000, July 1, 1970 to June 30, 1971, second year of a two year grant.

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## II Cont.

## 5. Cont.

Pham Chung

My papers on "Viet Nam's Postwar Development," "The Expected Effects of Viet Nam's Recently Established Limited Parallel Exchange Market," and "Optimal Consumption State Product-Mix and Level of Control in a Centrally Planned Economy: A Mathematical Model," are awaiting editorial decision. Another paper on "Optimal Consumption - State Product-Mix and Level of Control in Centrally Planned and Market Economies: A Theoretical Analysis" was recently submitted. A paper jointly done with Professor G.C. Hufbauer on "A Markowitz Model for Crop Diversification and Optimal Water Allocation" was completed and hopefully would be soon ready for submission. Under progress is a paper on "The Problem of Policy Coordination."

Albert Church

Contract research with Governor's Policy Board for Law Enforcement to design basic components for a New Mexico comprehensive criminal justice information system. Total cost \$14,550 from July 1, 1970 to June 30, 1971.

Sanford Cohen

Institutional Factors in the Venezuelan labor market, USAID and Ohio State Human Resources Institute.

Micha Gisser

A model integrating the agricultural sector with the aquifer and imported water in the Pecos Basin.

David Hamilton

Revising Consumer Protection In New Mexico for Division of Government Research

Gary Hufbauer

Research paper in preparation on occupational structure and inheritance in the Punjab.



II Cont.

5. Cont.

Gary Hufbauer, Cont.

Paper in process of publication on export incentives in Pakistan.

Consultancy work in India (1970-71) on the export problems of that country. This involved outside sponsorship (USAID) in the approximate amount of \$5000.

Alfred Parker

Research in Antitrust Law with emphasis on treble damage provisions. Resulting papers "Measuring Damages in Federal Treble Damage Actions" and "Treble Damage Action--A Financial Deterrent to Antitrust Violations?" Paper in progress "Treble Damages--An Alternative Measure of Damages".

Donald Tailby

Preparing study on early U.S. - China shipping

6. Activities in Learned and Professional Societies:

Shaul Ben-David

Attended ASSA meetings, Detroit, Dec. 1970.

Attended University Council of Water Resources Research Meeting, VPI, Aug. 1970 as UNM delegate

Gerald J. Boyle

Member, State Sales and Use Taxation Committee, National Tax Association

Member, State Advisory Committee on Medicaid

Chairman, Committee on Research and Development, State White House Conference on Aging

Speeches to Legislative Finance Committee Staff, League of Women Voters, New Mexico City and County Managers Association.

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## II Cont.

## 6. Cont.

Lee Brown

Attended New Mexico Water Conference, March 25-26, 1971

Sanford Cohen

Attended American Economic Association Meetings, Detroit, Dec., 1970

David Hamilton

On Roundtable on "Technology: Nuts and Bolts on Social Process" at AAAS in Chicago, December 30, 1970.

Chairman of Section on Poverty of Association for Evolutionary Economics, December 29, 1970, Detroit

Discussant of paper on Indian Poverty at Association of University Bureaus of Business Research in Albuquerque, October 14, 1970.

Read paper on "Economics of Hunger in New Mexico" at Joint Committee for Nutrition Education at Albuquerque, October 3, 1970.

Chaired session at Southwestern Social Science Association in honor of Clarence Ayres at Dallas in March, 1971

Served as visiting scientist (economist) at North Texas State University under NSF program in February, 1971.

Testified on New Mexico economy before U.S. Senate Public Works Committee, Sub-committee on Economic Development at Santa Fe in April, 1971 (To be published in hearings)

Gary Hufbauer

Attended AEA meetings in Detroit, December, 1970.

Nathaniel Wollman

Projection Panel of the National Water Commission and member of the Committee on Desert and Arid Zone Research of the Southwestern and Rocky Mountain Division, AAAS.

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II Cont.

7. Other Professional Activities:

Lee Brown

Consultant on Economic Development Program for Albuquerque Model Neighborhood Area

Sanford Cohen

Arbitrator, labor-management disputes in Colorado, Nevada, Texas, Arizona, Arkansas

Various talks to local groups

David Hamilton

Addressed District No. 5 Council Convention (N.M., Texas, Oklahoma, Arkansas, Louisiana) of Amalgamated Meat Cutters and Butchers Workmen on "The Union's Role in Consumer Problems and Education" in May in Albuquerque.

Gary Hufbauer

U.S. A.I.D. consultant (See Item II, 5.)

Alfred Parker

Consultant UNM Bureau of Business Research Economic Development Program for the Albuquerque Model Neighborhood Area.

Consultant for the following law firms:

McAtee, Marchiondo and Michael

Smith and Piper

Schlemmer and Parker P.A.

Speaker at the Developmental Economic Education Program Conference May 7, 1971, "Economic Education at the University of New Mexico".

Testimony before the House and Senate Committees of the New Mexico Legislature on legislation dealing with the regulation of public utilities.

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## II. Cont.

## 7. Cont.

Norman Van Cott

Participated in the Albuquerque First Presbyterian Debate Series.

## 8. Non-Teaching University Service:

Shaul Ben-David

Member, Ad Hoc Council on the Environment of UNM

Gerald Boyle

Member, Research Policy Committee

Sanford Cohen

Chairman, Department of Economics  
Advisory Board, Public Administration Division  
Executive Board, UNM AAUP  
Cooperated with Mr. Jerome Bailey of the Communication Workers of America, AFL-CIO to set up a short course for trade union officers through the University's Community College.

David Hamilton

Publications Board  
Academic Freedom and Tenure Committee

Gary Hufbauer

Studies on the faculty salary situation and the parking situation at UNM

Alfred Parker

Member Athletic Council  
Member of the Department of Economics Graduate Evaluation Committee  
Chairman of the Department of Economics Committee on Lower Division Courses

II Cont.

8. Cont.

Donald Tailby

University Graduate Committee and Sub-Committee on  
Work Shops and Short Courses  
College of Arts and Sciences Advisory Committee  
Acting Chairman, Department of Economics, Summer, 1971

Nathaniel Wollman

Dean, College of Arts and Sciences

9. Public Service:

Gerald Boyle

Vice President, Albuquerque Squash Racquets Association

THE REPORT OF THE DEPARTMENT OF ENGLISH  
July 1, 1970 - June 30, 1971  
Joseph Zavadii, Chairman

I. GENERAL INFORMATION

A. SIGNIFICANT ACHIEVEMENTS DURING THE ACADEMIC YEAR

Most of us will remember 1970-71 as a year full of internal business. If there is a New Mexico record for total hours spent in departmental and committee meetings, we probably established it between September and June. How fruitfully we spent our collective time I am not able to report with full data as yet, but present signs are encouraging. As individual parts of this report will indicate, we can point to definite achievement in some areas and sufficient progress in others to justify optimism in our plans for 1971-72.

1. ACE Rating of the Graduate Program

Among achievements must be included the national rating of our graduate program in the Roese-Andersen report sponsored and published by the American Council on Education. This report follows up the Carter report of 1965 and is based on data collected substantially during 1969. It reflects the opinion of a wide selection of professionals in a variety of fields; and while it does not pretend to be a thorough analysis of individual graduate programs, it does indicate what academic people think generally, and in that sense is a useful measure of reputation. Among sixty-four institutions rated by quality of the graduate English faculty, UNM appears in the third category, specifically named. Among fifty-seven institutions rated by effectiveness of the English doctoral

### I. A. 1. continued

program, UNM again is named in the third category. In both instances the ranking represents a step up in the rankings and a corresponding improvement of national reputation.

### 2. Blake Newsletter

A second achievement that involves the graduate operation primarily and the department's outside reputation as well is the transfer of publication of the Blake Newsletter from Berkeley to UNM. The Newsletter was founded by Morton Paley at Berkeley in 1967, but when budget restrictions endangered its survival last year, Professor Morris Eaves suggested to Paley that UNM might provide the support necessary to continuation, and thereby initiated negotiations for relocation of editorial and publication responsibility. With a guarantee of funds from the UNM administration, Eaves became Managing Editor of the Newsletter. Two issues were published during the academic year under a new and more professional format, and already there is evidence that the Newsletter is better-respected and more widely circulated than ever before. At small cost Professor Eaves has brought the department a very valuable resource.

### 3. Course Evaluation Program

Early in the fall a committee was appointed to study the department's teaching responsibilities and to recommend possible ways for improving the quality of teaching generally. We felt that since we insist that we care a great deal about good teaching, we should work actively to effect that concern. Dudley Wynn became chairman of the Committee on Teaching. Mary Beas Whidden and Michael Stroud were members of the committee, as were students Robert Allen and Jan Hodge. Before long, the committee became interested in course

### I.A.3. continued

evaluation by students as a means of both defining the quality of teaching throughout the department and encouraging increased attention to teaching. A questionnaire for course evaluation was developed by the committee and approved for use by the department in April. In May all English classes were evaluated by questionnaire in an operation only slightly less complicated and extensive than the landing at Omaha Beach. Answer sheets are to be tabulated by computer during the summer, and results are to be made available first to individual teachers and the chairman. Although we have not been able to estimate the value of the departmental evaluation, we had confidence in the questionnaire and expect to learn from actual student response. To have designed the evaluation program and the questionnaire and to have conducted the evaluation itself as successfully as we did must be considered a major achievement for 1971-72. First the special committee but also the entire faculty and all of our students deserve high praise.

#### 4. Curriculum Revision

Among departmental projects substantially completed but not given final approval during 1970-71 was the work of the Curriculum Committee. With Edith Buchanan as chairman, and Jim Barbour, Bob Fleming, Joe Kuntz, Marcia Tillotson, and Fred Warner as members, that committee met at least weekly throughout the year--examining the present curriculum, discussing philosophies and possibilities for change, consulting personally with the rest of the faculty, and finally preparing an impressive report of recommendations for change. The faculty will be studying the committee's report over the summer. Possible modifications will be considered early in the fall, and we expect adoption in



M.A. program

time for 1972-73 catalog publication. Generally the curriculum proposal separates the undergraduate and graduate course programs almost completely so that undergraduate and graduate teaching will quickly achieve separate and appropriate individual identity. In addition, the courses listed and described in the catalog will represent more accurately than is the case now the variety of emphases in content and approach that our students already find in our classes. We expect that the proposed curriculum will stimulate us to continue thinking about how and what we ought to be teaching--and at the same time permit us to balance experiment with responsible fulfillment of our traditional departmental commitment to English and American Literature.

#### 5. Ad Hoc Review of the Graduate Program

In response to student questioning of graduate requirements and the Ph.D. comprehensive exam in particular, a special ad hoc committee was elected in December to review the graduate program thoroughly. Composed of faculty members Gene Franklin, Joel Jones, Ivan Melada, and Hoyt Trowbridge, and students Mario Davis, Bill McPherson, David Mill, and Bruce Tracy, this Ad Hoc Committee met regularly in long sessions from January into April. The report it submitted to the department in April recommended substantial changes in M.A. and Ph.D. requirements and procedures. Then the full department discussed these recommendations in a series of five Friday sessions in April and May. Most of the report was accepted in principle--including recommendations that Ph.D. students work closely from the beginning of their study with committees on studies, that two separate plans for final Ph.D. qualification or comprehensive examination be established, that greater flexibility in foreign language or linguistics requirements be made available

I.A.5. continued

to students, that increased emphasis be placed on interdisciplinary study and basic scholarly or critical methodology, and that curriculum changes necessary to implement these recommendations be instituted. Details of almost all the proposals adopted in principle still must be worked out next fall, but new Ph.D. students in the fall will be required to form committees on studies so that at least the first step of change can be taken. We see the Ad Hoc Committee's proposals as importantly experimental. Careful, extensive examination of issues lies behind them, and we are determined to be equally careful in implementing them practically. Obviously we can look forward to continuous discussion and review of our graduate program. Such concern we expect to result in a program which students will respect and the profession will continue to acknowledge <sup>in</sup> whatever evaluation follows the Rosen-Anderson report.

#### 6. Additional Departmental Business

Three more departmental committees did important work during 1970-71. The Salary Committee (Professors Baughman, Melada, Pickett, and Spolsky) spent the first semester developing possible schedules for distribution of money for salary increases. When the budget actually came in April, of course, figures were narrower than anticipated and none of the committee's schedules could be applied unaltered. Even so, however, some important salary principles had been defined: particularly the importance of some kind of merit recognition and the need for priority attention to salaries of both those approaching retirement and those with three to five years of service. To some extent these principles were followed in the determining of individual salary increases in April, but perhaps more importantly they will become established guidelines for future years. Finally, the Salary Committee also

A.A.G. continued

helped define the cases of inequity in the department which the College was able to adjust somewhat by special stipend.

The Program Committee (Professors Dickey, Holland, and Lee Johnson with David Till) negotiated the Carl Grabo Lecture given by Wayne Booth of the University of Chicago in May. Professor Booth's lecture entitled "Five Respectable Ways of Looking at a Literary Work" was the first in what we plan to be a revived series of Grabo lectures made possible by an original endowment fund established by Professor Grabo's widow, Mrs. Eunice Calkins, in the late 1950's.

The Freshman English Committee (Professors Davis, Power, Remley, and Simons, with TA's Carol Cochran, Roy Jones, and David Till) devoted much of its time to approving and supervising the increasing variety and experimentation in the Freshman program. As the Freshman English brochure printed each semester revealed, a number of sections offered particular subject matters or emphases different from the basic courses, and the committee examined all these proposals before they were approved. Professor Davis felt that the system worked well and added considerable attractiveness to the general program.

# X. A. GENERAL INFORMATION, SIGNIFICANT ACHIEVEMENTS (continued)

## 7. D. H. Lawrence Festival

As stated in last year's annual report, the department received from the National Endowment for the Humanities a grant of \$15,600 to support a D. H. Lawrence festival in Taos, September 30 through October 4, 1970. This NEH grant was secured through the hard work for Dudley Wynn and E. W. Tedlock, Jr., and the festival was planned originally by a group of residents of Taos, who sought to commemorate the fortieth anniversary of the death of Lawrence in a manner befitting his continuing importance to the community of Taos and to those who knew him when he lived there forty-five years ago. The theme was to be "The Relevance of D. H. Lawrence Today," and the main portion of the festival was to be a series of panel discussions involving recognized Lawrence scholars and creative artists who consider Lawrence's work influential today.

The festival began on the evening of September 30 with the opening of an exhibition of paintings concerning Lawrence primarily by local artists. Some 350 people saw the exhibit that night. Panel sessions began the next day, and between October 1 and October 4 seven panel sessions took place--all at the D. H. Lawrence Ranch where Lawrence lived at times between 1922 and 1925. The participants were housed at the ranch during the festival, along with perhaps fifty others. On the evening of October 1 a recent BBC film called Lawrence in Taos, which featured some of the participants in the festival as well as other well-known Taos residents, was shown to a large, highly appreciative crowd; the film was repeated October 3. On the afternoon of October 2 a fine dramatic reading of various Lawrence pieces, including a Taos playlet, was also presented at the First Presbyterian Church in the village. Average attendance at all sessions of the festival was about 125-150, with top crowds of more than 200. A collection of Lawrence manuscripts and first editions was on exhibit at the ranch throughout the festival.

Principal dissemination of the material of the festival has occurred through the series of six half-hour TV tapes done by the participants at KOME-TV (UNM's contribution to the festival). Two of the programs were aired on the Rocky Mountain Educational Network in October, 1970; a series ran in January and February, 1970. Topics and participants are as follows:

- D. H. Lawrence Through the Eyes of His Friends: Helen Corke, David Garnett, and John Lehmann
- D. H. Lawrence and the Sexual Revolution: Max Dendermonde, John Lehmann, Taylor Stoshr, and James Cowan
- D. H. Lawrence and the Consumer Society: Robert Bly, David Garnett, Sean Hignett, and E. W. Tedlock, Jr.
- D. H. Lawrence in New Mexico: James Cowan, Joseph O'Kane Foster, M. Scott Momaday, and Warren Roberts
- D. H. Lawrence in the Eyes of Scholars: Emile Delavenay, Harry T. Moore, and James T. Boulton
- D. H. Lawrence and Politics: James T. Boulton, Martin Green, Warren Roberts, and Emile Delavenay

In addition to the video tapes listed above, a substantial amount of film was shot during the festival, and all discussions were taped. The film has been processed, and the photographers, under the direction of Professor Wayne Lazarik of the Art Department, are planning to construct several educational films (for senior high school or college students) from the completed footage and the tapes. They intend to request funds from the National Endowment for this project.

The Department of English plans no follow-up on the festival. Results were fully detailed in two reports: (1) the evaluation by Dudley Wynn, and (2) a letter from Dorothy Brandenburg and Claire Morrill. Both of these are in English Department files. All in all, the D. H. Lawrence Festival was well worth the money and effort that made it possible. It resolved no problems about Lawrence; it did introduce Lawrence to some people, renewed the interest of others, and brought some important experts together to meet and talk with one another as well as to perform in a broader public context than is usual for them.

I.A.8.

8. D. H. Lawrence Fellowship for the Summer of 1971

The D. H. Lawrence Summer Fellowship for summer 1971 was awarded to poet Howard McCord. An Associate Professor of English at Washington State University, he is also an editor with W.S.U. Press, as well as coordinator of the Graduate Program in Creative Writing and editor of the university's literary biannual, MEASURE. Professor McCord's work has been anthologized extensively. His books include THE FIRE VISIONS, LONGJOURNIES HIS PERIPIUS, FABLES AND TRANSMIGURATIONS, THE SPANISH DARK AND OTHER POEMS, AND 12 BONES. A native of the American Southwest, Professor McCord expects to spend his time at the Lawrence Ranch working on "Dromena: A Book of Mysteries," a collection of poems that focuses on the relation between the wilderness landscapes of the West, and the shifting, distant interiors of the mind in dream. He will also work on a second book that is a short account of the life of Teresa Urrea, called "Santa Teresa" by the Yaquis, whom she led in a guerrilla attack on the Customs House at Nogales, Sonora, in 1896.

9. NDEA Funds and Summer Dissertation Fellowships

For the second time the department has been able to grant support from its NDEA funds to graduate students engaged in dissertation research for the summer. For 1971 stipends ranging from \$280 to \$500 have been granted to Ph.D. candidates David Beer, Carol Cochran, Peter Eller, Lois Marchino, and Ingrid Parker. In addition, NDEA funds have been assigned to faculty and graduate students for travel to professional conference, for microfilming and photocopying necessary to research, and for various special projects.

I.A.10

#### 10. Enrollment Trends

Enrollment figures show the extraordinary increase in Freshman English that occurred during 1970-71. Otherwise nothing dramatic appears in them. The number of students in lower division literature courses dropped during the second semester because the department did not offer any of the large (100+) sections that had been scheduled in previous semesters. We offered more sections, but none enrolled more than fifty-six students. We had not been satisfied with the experiences provided students in sections larger than that maximum. Instead we feel that more thorough study of teaching large classes must be undertaken before we are ready to move into the business of that kind of mass education. Meanwhile we will try to provide classes of forty or so in which students will be able to participate more personally than most classes in the university now seem to permit.

The reduction in total number of undergraduate majors and minors probably can be traced to the BUS program. The number of graduate students is being consciously reduced, particularly at the Ph.D. level, so that the student population will more closely match departmental resources in staff and money

## A. General Information: Significant Achievement (continued)

## enrollment Trends

TABLE I  
Semester I

Category	1967-68	1968-69	1969-70	1970-71
Freshman Writing	2427	2665	3030	3499
LD Wrtg. & Ling.	202	123	175	186
LD Lit.	1653	1656	1695	1818
UD & Grad.	1274	1330	1239	1153
General Studies	58	109	10	40
English OLO	188	205	224	---

TABLE II  
Semester II

Category	1967-68	1968-69	1969-70	1970-71
Freshman Writing	2397	2378	2795	2876
LD Wrtg. & Ling.	146	109	195	166
LD Lit.	1589	1406	1519	1325
UD & Grad.	1166	1405	1317	1325
General Studies	38			60
English OLO	166	36		----



## I.A. Enrollment (continued)

TABLE III  
Semesters I and II

	1969-70	1970-71
<b>UNDERGRADUATE</b>		
Majors-----	280	204
Minors-----	130	82
Majors graduated June-----	54	48
Minors graduate June-----	53	43
<b>GRADUATE</b>		
Ph.D. Students-----	92	80
M. A. Students-----	81	67
Ph.D. degrees awarded August, January, June-----	11	6
M. A. degrees awarded August, January, June-----	6	13

J. B.

### B. SIGNIFICANT PLANS

In 1971-72 we must complete our task of curriculum revision, and we must continue to work out details in our changing graduate program. One additional area of special attention will be the whole business of staff review. After the extensive effort during the past year on tenure and promotion cases, the department has realized that better procedure for reviewing cases and assembling reliable information are necessary. At least one proposal has already appeared; so we have a start. In addition, we must work at improving our support and advisement of Ph.D. candidates in the job market. The past year has been particularly painful for our candidates. Although we have learned something from their experiences, we do not yet know enough to help all our graduates find positions; and the market may well be even more cramped next year.

According to the University Graduate Committee's Joint Committee on the Evaluation of Academic Programs, apparently the department should also be planning to increase its scholarly productivity and add to its senior staff. While we reject the main thrust of that committee's four-line criticism of our graduate program (and certainly the information on curriculum and graduate review above should suggest that committee did not have as much information to judge us as was available), we are anxious to improve communication among members of the department about individual research. Publication as such may not be a necessary end for all research, but at the same time we feel that collectively we ought to know more about what each of us is doing individually in any area of scholarship, criticism, or experiment. The answer may be a regular departmental forum or seminar for faculty and students, or some kind of reasonably public series of programs. Organization of such a medium for communication is already being planned.

As far as appointment of senior staff is concerned, we must point out that such people are expensive and will require greater funds than are available to similarly qualified people already here. As most departmental reports must be arriving this year, more money would solve more problems than it would create.

## C. APPOINTMENTS

1. Shirley Guthrie. B.A., Swarthmore, 1962; M.A., Indiana University, 1967; Ph.D. expected 1971. Comparative Literature, Classical and Medieval. Assistant Professor, starting August, 1971.
2. Jeremy Neist. B.A., Harvard, 1967; Ph.D. expected 1971, Washington University, St. Louis. Nineteenth and 20th Century English and American Literature. Assistant Professor, starting August, 1971.
3. Leon Howard. B.A., Birmingham South College, 1923; M.A., University of Chicago, 1926; Ph.D., Johns Hopkins, 1929. American Literature. Visiting Professor of English, starting January, 1972.
4. David Richard Jones. B.A., Northwestern University, 1964; M.A., Princeton University, 1966; Ph.D. Princeton, June, 1968. Contemporary Poetry, Prose, Drama. Assistant Professor, starting June, 1971.
5. Harvena Richter. B.A., University of New Mexico, 1938; M.A., NYU, 1955; Ph.D., NYU, 1967. The psychological novel; modern British and American fiction; Melville and Hawthorne; Henry James; Milton. Reappointed Writer-in-Residence for Semester IX, 1971-72.
6. Thomas Mayer. No degrees. Well known fiction writer, reappointed to teach Creative Writing, Lecturer, Semester I, 1971-72.
7. Patricia Clark Smith. B.A., Smith College, 1964; M.A., Yale University, 1966; Ph.D., Yale, 1968. Elizabethan and Jacobean Drama; Shakespeare; Spenser; Poe. Visiting Assistant Professor, starting August, 1971.

## D. SEPARATIONS FROM STAFF

1. Stephen Rodefer. Assistant Professor from September, 1967 to July 1, 1971.
2. Michael Stroud. Assistant Professor from September, 1970 to August 7, 1971.
3. Dudley Wyan. Instructor from 1934 to 1935; Assistant Professor from 1935 to 1938; Associate Professor from 1938 to 1943; Professor from 1944 to 1971.

## II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

### 1. Advanced Study

Willis Dana Jacobs. Three months study of French Language and Culture, l'Alliance Francaise, Paris, France, August-November 1970. Grade: "Magnifique."

Mary Jane Power. Course in Elementary Irish, The Gaelic League, 6 Harcourt Street, Dublin, October-April, 1969-70.

Michael Stroud. Ph.D. in English granted, University of Wisconsin, June 1970.

Marcia Tillotson. Dissertation completed ("Byron's Tragedies"); Ph.D. awarded December 22, 1970, from The University of Chicago.

### 2. Sabbaticals, Leaves, Travel etc.

George Arns. Conference at Howells Center in Bloomington, Indiana, July 12-20, 1970. Conference at Holt-Rinehart-Winston in New York City, October 22-25, 1970.

Ernest W. Baughman. Sabbatical, Semester I. Travel, literary-historical centers in New England. Research: colony and church law and justice--Bordoin College Library, Essex Institute (Salem, Mass.), Yale University. Travel and study were during September and October, English Department research grant of \$500.00.

Susan V. Davitt. Leave of absence, 1970-71. Editorial Secretary, IGCASS, the International Center for Comparative and Applied Social Science, August, 1970-May, 1971. Residence in Norway, travel in Germany, Italy, the Netherlands.

Willis Dana Jacobs. Sabbatical leave, 6 months in theaters of Britain, France, and Norway and in Off-Broadway and Off-Off Broadway theaters of New York City, June 1970-December 1970. Attended 65 plays; met directors, playwrights, actors, and producers.

David H. Johnson. Summer position at Moorhead State College, Moorhead, Minnesota.

Mary Jane Power. Leave of absence, September, 1969-June, 1970, spent in Ireland, with travel to Spain and Morocco.

James L. Thorson. Travel to New York for MLA meeting and theater, December, 1970.

2. (continued)

Mary Ross Whidden. Research in Florence, language study at the Alliance Française, Paris. (Sabbatical leave spent at British Museum until June).

3. New Scholastic Honors etc.

Ernest W. Baughman. An article (1967) "Public Confession and The Scarlet Letter" reviewed in American Literary Scholarship, 1967 by H. H. Waggoner. One comment: "The article makes the strongest case for the novel's artistic validity I have seen in a long time." (p. 25).

Ellen Spolsky. ACLS aid for computer-oriented research in humanities.

Dudley Wyam. Honorary membership, Phi Beta Kappa, Alpha New Mexico.

4. Publications

George Arns. /On the Personal Collector/ and "The W. D. Howells Correspondence," CEAA Newsletter, No. 3 (June, 1970), pp. 21-22 and 26.

Ernest W. Baughman. Two book reviews that have not yet appeared.

Morris Eaves. "The Real Thing: A Plan for Producing Shakespeare in the Classroom, College English 31 (Feb. 1970), 463-72. /not heretofore included in biographical record/ "An Index to Volume 3 of the Blake Newsletter," Blake Newsletter, 4 (Aug. 1970), 1-9 /separately paginated/ "A List of the Entries in Damon's Blake Dictionary," Blake Studies, 3 (Fall 1970), 69-85. "Decision and Revision in James Merrill's (Diblos) Notebook," about 11 pp., scheduled for publication in the Winter 1970 issue of Contemporary Literature. Review of Allen Ginsberg/William Blake: Songs of Innocence and Experience by William Blake, tuned by Allen Ginsberg /a recording/, about 5 pp. + illustrations + Ginsberg's liner notes, scheduled for publication in the Winter 1970 issue of the Blake Newsletter. Various news and bibliographical items in the Fall and Winter 1970 issues of the Blake Newsletter, including collaboration on the "Checklist of Blake Scholarship/June 1969-September 1970," 4(Fall 1970), 51-59.

Gene Franklin. Poems: "The Title of This Poem Is," The Nation; "The Perfection of Summer Thunderstorms," Sage; "Summer Storm Albuquerque," Quetzal; 15 poems, Red Apple Review; "Voyage Toward Young Age," Red Apple Review; "Iowa, Kansas, Nebraska" in 50 Years Touching on Recent American History (ed. Robert Bly, Beacon Press).

# II. 4. Publications continued

Robert E. Fleming. Reviews: Early Black American Poets; Black Voices: An Anthology of Afro-American Literature, in Negro American Literature Forum, IV, no. 2 (July 1970), 69-71.

Joanne Field Holland. Essay, "The Cantos of Mutabilitie and the Form of The Faerie Queene" reprinted in Critical Essays on Spenser from ELH (Baltimore: Johns Hopkins Univ. Press, 1970), pp. 247-57.

Willis Dana Jacobs. "William Carlos Williams' The Young Housewife," The Explicator, IIVIII, No. 9, May 1970, unpagged. "William Carlos Williams' To Awaken an Old Lady," The Explicator, XXIX, No. 1, September 1970, unpagged. "William Carlos Williams' The Hunter," The Explicator, accepted and scheduled for publication. "William Carlos Williams' A Coronel," The Explicator, accepted and scheduled for publication. "Edith Sitwell's Still Falls the Rain," completed and in hands of editors.

David M. Johnson. "The Making of a Senator," poem accepted by Dakota Territory.

Joel M. Jones. Essay-review, William P. Randel, CENTENNIAL: AMERICAN LIFE IN 1876, in AMERICAN LITERARY REALISM, III (Summer 1970), 275-278. "McLuhan in the Maelstrom Again," scheduled for JOURNAL OF POPULAR CULTURE, IV (Winter 1970). Contributing Bibliographer to "Ambrose Bierce," AMERICAN LITERARY REALISM, V (Winter, 1971).

Joseph M. Kuntz. Manuscript of Poetry Explication: A Checklist, third edition, in hands of publisher, The Swallow Press, Inc., Chicago. Estimated number of pages: 600-700. Tentative date of publication: fall, 1971.

Dorothy M. Logan. Textbook, entitled WRITING ESSAYS ABOUT LITERATURE: A LITERARY RHETORIC, published by Holt, Rinehart and Winston, Inc., January 1, 1971.

Ivan. Melade. THE CAPTAIN OF INDUSTRY IN ENGLISH FICTION: 1821-1871, Albuquerque: University of New Mexico Press, 1970.

Harvena Richter. Virginia Woolf, The Inward Voyage. Sept. 1970. Princeton University Press.

Hoyt Trowbridge. Two reviews, both to be published in Modern Philology: Sanford Budick, Dryden and the Abyss of Light. A Study of Religio Laici and the Hind and the Panther (Yale, 1970). Douglas H. White, Pope and the Context of Controversy (Chicago, 1970).

## II. 4. Publications continued

Fred Warner. "The Significance of Stevenson's 'Providence and the Guitar' to be published in Spring 1971 by English Literature in Transition.

Dudley Wyan. "Honors Programs and Innovation," Journal of Higher Education, XLI (April, 1970), pp. 298-305. Shortened version of presidential address to National Collegiate Honors Council, annual meeting, New Orleans, La., Oct., 1969.

## 5. Other Research Projects etc. in Progress

George Arns. Continuing work on the Howells letters (first volume scheduled for 1972 publication; second volume now in progress).

Ernest W. Daughman. Project: Hawthorne's literary devices in The Marble Faun, in progress. Cataloguing student collections of folktales and folklore.

Paul Davis. Descriptive Critical Techniques in Fiction.

Susan V. Dowitt. Work in progress toward Ph.D. in English, University of Washington. Editor, re-writer, and Language Consultant for papers on Tanzanian development, organization theory, and a variety of technical and scientific subjects.

Franklin M. Dickey. The Phenomenological Novel (Book). The Book of Job and The Duchess of Malfi (Article).

Morris Eaves. In progress: study of "Blake's Artistic Strategy" /diss./; papers on Dickens' Martin Chuzzlewit; Shakespeare's Richard II; Donne's Songs and Sonnets; Faulkner's Sound and the Fury; Crane's Red Badge of Courage. /All near completion/.

Robert E. Fleming. "Irony as a Key to Johnson's Autobiography of an Ex-Coloured Man," accepted by American Literature. "Contemporary Themes in Johnson's Autobiography of an Ex-Coloured Man," accepted by Negro American Literature Forum. "Playing the Dozens' in the Black Novel," accepted by Raman K. Singh, ed., for his anthology Aspects of the Black Novel. Article on Sutton E. Griggs, submitted to Phylon. In progress, article on the novels of Ronald L. Fair. C. Lummis and A. Bandelier sections for Southwestern American Lit. Assn. Bibliography.

Jeanne Field Holland. In progress: a book tentatively to be titled "Myth and History in The Faerie Queen."

## II. 5. Other Research continued

Willis Dana Jacobs. Research continues on the drama of Eugene Ionesco.

Lee M. Johnson. In the process of revising and expanding my dissertation, trying to make it into something that reads like a book.

Joel M. Jones. Permanent member of "Advisors on Book Selection" for the AMERICAN QUARTERLY "Annual Review of Books." Permanent member of bibliographic staff for AMERICAN LITERARY REALISM.

Dorothy M. Logan. In progress are an article on Thomas Mann's "Gladius Dei" and a textbook on the teaching of literature in today's high schools.

Ivan Malada. Applied Zor Huntington Library grant for summer, 1971, in order to undertake two research projects. Received grant.

Mary Jane Power. In progress and nearing completion, a book-length study of the modern Irish novelist, Brian O'Nolan.

Roy Pickett. Research in linguistics and literary style.

Harvena Richter. Second novel to be completed summer 1971. Another novel in progress.

David A. Remley. Work in progress on Alaska Highway history. Research funds in summer, 1970, from Research Allocations Committee and NDEA, UNM.

Ellen Spolsky. Computer-assisted semantic analysis of poetry-in progress, supported by UNM RAC. Workshop in computers for humanists organized in June 1970 at UNM Research Computing Center.

Michael Stroud. Two articles completed--"Form and Meaning in the Alliterative Morte Arthure" and "The Role of the Expositor in the Chester Cycle." Two other articles due for completion before June; a prospectus for a book submitted to Random House.

E. W. Tedlock, Jr. Agreement (by letter) with Harry T. Moore and South Illinois University Press, to co-edit, with Moore, letters by Frieda Lawrence heretofore unpublished and bearing on the D. H. L. estate. Creative writing, in progress.

James L. Thorson. Completed article on The Country Wife.

Hoyt Trowbridge. Worked during the summer and fall on two essays, both to be included in my book, English Writers and Critics, 1660-1800: "Swift and Socrates" (completed in first draft); "Scattered Atoms of Probability" (two of the six sections completed in first draft). Grant from Research Allocations Committee for travel and clerical help.



## II. 5. Other Research continued

Fred Warner. A novel completed---currently being read at Alfred Knopf. An edition of Pierce Egan's Bariana in progress. Another novel, a book on Stevenson, and a joint essay with David Johnson on experimental curricula.

Mary Bess Whidden. Two-volume critical edition of Elizabethan sonnets (publisher being sought). Two articles on Shakespeare's poems completed, one begun on the persistence of Petrarchan elements.

Dudley Wynn. Continuing research on Joseph Conrad and Albert Camus.

## 6. Activities in Professional Societies etc.

George Arms. Executive council of Western Literature Association, 1968-1971. Attended Modern Language Association, New York City, December 26-30, 1970.

Ernest W. Baughman. Meeting: American Folklore Society, Atlanta, November, 1969. Member Executive Board through 1971. Elected second vice president, New Mexico Folklore Society, May, 1970.

Paul Davis. Attended D. H. Lawrence Festival, Taos, Oct. 1970.

Susan V. Dewitt. Attended: 4th Ad Hoc Working Party on Rural Sociological Problems in Europe, Bad Godesburg, August, 1971; 7th European Congress for Rural Sociology, Munster, August, 1971; Seminar on Changes in Tanzanian Rural Development, Afrika-Studiecentrum, Leiden, December, 1971.

Robert E. Fleming. "Johnson's Autobiography of an Ex-Coloured Man--Still Significant?" a paper read at the 1970 meeting of Rocky Mountain Modern Language Association.

Joanna Field Holland. Attended meeting of Modern Language Association in New York City, December 27-30.

Willis Dana Jacobs. Member: Modern Language Association. American Association of University Professors. Phi Kappa Phi.

Dorothy M. Logan. Member of MLA, RMMLA, and NCEE.

Ivan Melada. Attended D. H. Lawrence Festival, Oct., 1970, Taos, N.M.

Roy Pickett. Member of the Executive Committee of the College Conference on Composition and Communication.

United States to the Vice Chairman National Association and Bulletin  
Section for REMLA Fall Conference, 1971. Read a paper "Samoan  
Twentieth Century Pechahontas" at REMLA, Fall Conference, Sun Valley,  
Idaho, 1970, October.

Ellen Spolsky. Attended MLA meetings in New York, December, 1970.

E. W. Tedlock, Jr. With Dudley Wynn, planned and otherwise worked on the D. H. Lawrence Festival and participated in two panels.

James L. Thorson, President, New Mexico Conference of AAUP. Presided at fall meeting of conference at the University of Albuquerque in October. Member of executive committee of UNM Chapter of AAUP.

Marcia Tillotson. Attended national MLA convention in New York,  
December, 1970.

Hoyt Trowbridge, Member, Publication Committee, American Society for  
Eighteenth-Century Studies (will attend annual meeting in April, 1971).  
Member, accrediting team to evaluate program of teacher-training at the  
University of Kansas for NCATE (visit to Lawrence in March, 1971).  
Member, Board of Editions, Journal of General Education (Penn State U.).

Dudley Wyman. Immediate past president, National Collegiate Honor's Council to October, 1970. Read paper at Rocky Mountain Modern Language Association, Sun Valley, Idaho, October, 1970: "Joseph Conrad and 'The Sociological Imagination'."

Joseph B. Zavadii. Attended MIA meeting, New York, December 26-30.

**7. Other Professional Activities (exhibits, concerts, etc.)**

**George Arms.** Executive committee of the editorial board for the Indiana University Press 40-volume edition of W. D. Howells. Co-editor of The Explicator. Director and president of The Explicator Literary Foundation. Advisory board, Abstracts of English Studies. Board of consultants, American Literary Realism.

Ernest W. Baughman. Two Ph.D. Dissertations under my direction, which took a great deal of my Sabbatical time, were completed.

Paul Davis. Acted in Rochelle Owen's Futz and Mark Medoff's "Doing a Good One for the Redman." Summer 1970.

Susan V. Devitt. Teaching: 3 classes in English for Norwegians (2 classes in English for Scientists, 1 in Conversational English) through the Frimundervisning (adult education) in As, Norway.

Morris Hayes, Appointed Managing Editor, Blake Newsletter, beginning with Fall 1970 issue.

Gene Franklin. Poetry reading, 2nd annual Southwest Poetry Conference, Folk Art Museum, Santa Fe. Poetry reading, University of Southern California.

Jeanne Field Holland. Talked to the B'nai Israel Sisterhood about Portroy's Complaint, November 10.

David M. Johnson. Public lecture, Moorhead State College, August 1970; title: "Excess and the Palace of Wisdom: Communications and Literature."

Joel M. Jones. Radio-tape for Public Information Office on "What is American Studies."

Roy Pickett. Paper on "Linguistics and Literary Style," presented at Language Seminar, UNM, Nov. 1970.

Ellen Snolsky. A talk to AAUW about the status of women at UNM.

E. W. Tedlock, Jr. TV appearance in connection with D. H. Lawrence Festival (see 6).

James L. Thorson. Volunteer for Speaker's Bureau, UNM.

Fred Warner. On planning committee for D. H. Lawrence Festival. At ranch for entire festival to coordinate programs, make drinks for participants, etc.

Dudley Wynn. Co-director, D. H. Lawrence Festival in Taos, Sept.-Oct., 1970, for which grant of \$15,900 was secured from National Endowment for the Humanities.

Joseph B. Zavadil. Moderator, D. H. Lawrence Festival, Lawrence Ranch, Taos, September 30-October 5. Talk to North Albuquerque Lions Club, November 11.

### 3. Non-teaching University Service (administrative, etc.)

George Arns. Member of Graduate Committee. Member of Committee on American Studies. Elected member of English P&P Committee. Member of English Graduate Committee.

Edith Buchanan. Faculty Advisor to graduate students, member Graduate Committee (English), member Departmental Ph.D. Examination Committee, Chairman of Departmental Curriculum Committee..

I. Scott Catlett. Arts & Science Faculty Advisory Committee.

Paul Davis. Director, Freshman English; Chairman, Academic Freedom and Tenure Committee; Member of Governance Committee; Sub-Committee of the Policy Committee on the Regent's Interim Policy; Arts and Sciences Committee on terms for Chairman; Chairman, Freshman English Committee; Member Policy and Personnel Committee.

Robert Fleming. Departmental Registration supervisor; Registration Committee (Univ.); MA Exam Committee (Chairman); Dept. Curriculum Committee; Student Government Scholarship Committee.

Ann Franklin. Faculty Advisor; ASUM-GSA Poetry Series Committee.

James E. Holland. Departmental Program Committee and M.A. Exam Committee; at time on Emergency Leave.

Wanda Reed Jones. In charge; Department of English Library; Editor; Editor, Faculty and Government Relations; Committee on the Enhancement of the Educational Process; Department of English Speech (Reading) Committee; Advisor; English Majors; Comparative Literature Majors.

David M. Johnson. Student Publications Board; Advisor, English-Philosophy Majors; Committee on the Enhancement of the Educational Process.

Joel M. Jones. Chairman, American Studies Program; Chairman, Committee on the University; Member of Committee for the Enhancement of the Educational Process.

Joseph M. Kuntz. Member of departmental committee on curriculum revision; Faculty advisor, English majors; Departmental Policy and Personnel Committee (advisory).

Dorothy M. Logan. Advisor to University College.

Ivan Maeda. Member Policy and Personnel Committee; Salary Study Committee member; Member Ad Hoc Committee on the Ph.D.; Departmental agent for library purchases; Ad Hoc Committee of one to raise funds for the library purchases; Letters to Senator Montoya, Ford Foundation, and six New Mexico Foundations; Graduate Advisor.

Roy Pickett. Secretary of the University Curricula Committee; University Sub-committee on Workshops; Linguistics and Language Pedagogy Committee; Departmental Salary Committee; Department Ph.D. Exam Committee; Departmental Advisor for MATE Program.

Mary Jane Power. Member, Committee for the Enhancement of the Educational Process; Member, English department Freshman English Committee; Advisor, English majors.

Katherine Simons. Chairman, Departmental advisement for English majors. Adviser to English majors, 25-30 students. Member, Departmental Committee on Freshman English.

Ellen Spolsky. Undergraduate advisor; Departmental Salary Committee; Dean's Advisory Council; University Computer Use Committee; Department Ph.D. Exam Committee.

James L. Thorson. Chairman of the departmental graduate committee; Graduate Advisor; Chairman of Ad Hoc Committee on Library; Chairman of Ad Hoc Committee on ROSC; Member of the Faculty Policy Committee.

Margie Tillotson. Member Committee on Professional Careers for Women; Student Standards Committee (alternate); English Department Curriculum Committee; English Department Graduate Committee; English Department faculty advisor.

Hoyt Trumbidge. Member, Publications Committee; Elected member, Ad Hoc Committee on the Graduate Program (dept. of English); Chairman, special committee to plan Conference on the Evaluation of Teaching, held at UNM February 26, 1971.

Fred Warner. Member Graduate Committee; Member Policy and Personnel Committee; Member Curriculum Committee; Ph.D. Exam Committee member; MAT Committee; Ad Hoc Graduate Committee.

Mary Egan Whidden. Department Committee on Teaching; Ph.D. Exam Committee; Undergraduate Advisor; Committee on MAT in English.

Dudley Wynn. Chairman, Honors Council (University Committee).

Joseph B. Zavadil. Ad Hoc Committee on the New Morality; Dean's Ad Hoc Committee on Salary Problems; Department Chairmanship (with consequent ex officio membership on numerous committees).

9. Public Service (church activities, Community Chest, Boy Scouts, etc.)

Ernest W. Baughman. Chairman Precinct 251 (Democratic Party).

L. Scott Catlett. Friends of Art, Board Member.

Susan V. Davitt. Member of the Board, International Club in Ås, Norway.

Joanne F. Holland. Bryn Mawr Information Chairman and Survey Captain.

Willis Dora Jacobs. Chairman and Pronouncer, Annual Scripps-Howard Spelling Bee for the State of New Mexico, sponsored by the Albuquerque Tribune.

Joel M. Jones. AAUP liason with Albuquerque United Nations Association.

Dorothy M. Logan. Volunteer worker for Cystic Fibrosis Foundation.

Ellen Spolsky. Board member of the Albuquerque Jewish Welfare Fund.

Dudley Wynn. Member Board of Trustees, Albuquerque Academy.

10. Personal Information (any change in marital status, number of children citizenship, military status, etc.)

Morris Eaves. Born, Obadiah Eaves, March 30, 1971.

William Dora Jacobs. Major, United States Air Force, Reserve.

Leo M. Johnson. Born, Lillian Neal Johnson, August 21, 1970.

Ellen Spolsky. Born, Ruth Miriam, February 25, 1971.

James L. Thorson. Married Connie, June 6, 1970

Fred Warner. Informed by draft board, too old for further service.

The Report of the Department of Geography  
July 1, 1970 - June 30, 1971  
Richard E. Murphy, Chairman

I. General Departmental Information.

As the Geography Department comes to the end of the first year of its master's degree program, we can look with some satisfaction on the development of the department and on its future prospects. The department has grown rather rapidly but also steadily and surely in students, faculty, facilities, courses, and research.

A. Significant Achievements.

During the past year, probably the most noticeable accomplishment was the successful completion of the first full year of the master's degree program. We have developed the program in consultation with the graduate students themselves and are offering new courses made possible by the acquisition of new staff who bring to us special competencies of their own and also enable other faculty to add to their courses by relieving them of some introductory sections.

Specifically, we have added new courses in microclimatology, the physical geography of our continent, environmental systems analysis, quantitative research methods, psychological geography, arid lands, and the region of the southwestern United States.

Research has branched out to include cooperative ventures with the Technology Applications Center and the Chaco Canyon Project as well as individual research projects, some of them funded, on a rather wide range of subjects and places both in the United States and abroad.

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Professor Snead is one of the representatives from the University of New Mexico to three panels preparing three proposals for the space agencies for studies of satellite data for the northwestern portion of New Mexico, including the Albuquerque area. The first proposal is an application to use ERTS-A satellite data for this purpose by research personnel in the Technology Application Center, the Middle Rio Grande Council of Governments, and the Department of Geography. The second proposal is to use Skylab satellite data by the same three divisions for the same area of the state. A third proposal is being prepared by a consortium of three universities in New Mexico, (UNM, New Mexico State, and New Mexico Institute of Mining and Technology) for the use of AERTS satellite data covering the whole state. Professor Snead is one of the two representatives from UNM to the consortium.

B. Numbers of students.

The growth of the number of students served by the department has grown rapidly since 1965 when there were only six majors and no graduate program. Presently there are 35 undergraduate majors and 20 undergraduate minors. The new master's program has 11 graduate students. In addition, there are graduate minors from several disciplines including History and Education.

Graduates of this department have found a rather wide range of opportunities, although the current graduate school and job opportunities are more limited this year than in the past. Nevertheless, there are former students of ours who are now in master's

and Ph.D. programs in half a dozen universities including the University of New Mexico. Others of our students have found employment in the federal government and in teaching at various levels.

C. Plans and recommendations.

Looking toward the future, the department is planning to assess its program after a period of rather rapid growth and to develop cooperative programs with other units. We hope that our facilities will keep pace.

In the fall the department plans to review the new master's program with a view to strengthening it and perhaps limiting future enrollment to only the more qualified students. The enrollment for next year is already considerably in excess of present numbers, and this growth is more rapid than we had anticipated.

In an evaluation of the whole departmental operation conducted by three students, a series of recommendations emerged, particularly for the graduate program, and these we wish to take under advisement in our deliberations. We will be consulting further with the students in the fall in this regard.

Plans are developing for cooperative projects with the Technology Application Center, as indicated under Significant Achievements above, and the Chaco Canyon Project. Professor Snead and a graduate assistant funded by TAC will be working on a project, reviewing existing remote sensing material and its application to users.

There is a likelihood of two graduate students being funded by the Chaco Canyon Project for work there which will involve faculty



as advisors or investigators.

Our plans and growth have fitted rather well into the space available to us in Hodgkin Hall, but in view of an adverse report from the Office of the State Fire Marshall about the condition of the building, we wish to recommend that Hodgkin Hall be modified to meet the regulations of the State Fire Marshall insofar as the Geography Department is concerned and that we be permitted to remain here until such time as a really suitable building may be built.

D. Appointments to staff.

Professor Robert D. Campbell has just completed his first year with us, and it has been a successful year. He has introduced new courses in environmental systems analysis this year and will be teaching new courses in psychological geography next year.

Assistant Professor Delmar A. Dyreson will join us in the fall. He comes to us with college teaching experience in both mathematics and geography, and he should be a valuable addition to our staff. He will be teaching new courses in quantitative methods, arid lands, and urban geography.

E. Separation from staff.

There have been no separations from staff this past year.

II. Composite of Information Requested on Individual Biographical Supplements.

Since the following information on individual faculty members represents only the period from June - December, 1970, it omits a considerable amount of material from the spring semester when a

number of activities came to completion. Nevertheless, even this partial year indicates the continuous contributions of a productive staff.

Advanced study.

Assistant Professor Elinore M. Barrett was awarded the Ph.D. degree from the University of California at Berkeley upon completion in November of her doctoral dissertation on LAND TENURE AND SETTLEMENT IN THE TEPALCATAPEC LOWLAND, MICHOACAN, MEXICO.

Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

During the summer Professor Bennett traveled through the Pacific Northwest of the United States and adjacent parts of Canada while Professor Murphy visited the Columbian Ice Field of Canada. Professor Snead and three students went to Baja California in Mexico both in the summer and during the Christmas holiday where they conducted research on coastal landforms.

Publications.

Professor Bennett, Professor Campbell, and Professor Murphy all had publications in press during the first semester, but they did not appear until the second semester. Thus, under the new time schedule for submission of the annual supplements to the biographical records, their publications are not listed in this annual report of the department but will be included next year.

Professor Snead likewise has material in press, but his BIBLIOGRAPHY ON THE MAKRAK REGIONS OF IRAN AND WEST PAKISTAN was published by Field Research Projects, Coconut Grove, Miami, Florida, during the first semester.

Other research projects.

Several research projects, some of them funded, developed during the year, but the funding and the full delineation of most of the projects came during the second semester. Therefore, they will be described in next year's annual report. In some cases, preliminary steps were taken during the first semester, and these are mentioned below along with continuing or completed projects.

Assistant Professor Barrett, upon completion of her doctoral dissertation made preliminary plans for field research on resettlement areas in the southern part of the Baja, California, area of Mexico. She will be conducting investigations in the field this coming summer. She is also revising her dissertation for publication by the University of California.

Professor Bennett is engaged in four research projects as follows:

- (1) A study of the hourly and daily insolation of the Middle Rio Grande valley. The data on computer cards has been received from the National Weather Record Center. Preparation of a computer program to analyse the data is under way.
- (2) Preparation of a series of maps showing the percentage frequency at various levels of daily insolation in June and December in North America.
- (3) A study of the occurrence of sleet, freezing rain, and hail in the United States. Material for this is being supplied monthly from the National Weather Records Center.

(4) An evaluation of the Inyokern, California daily insolation record requested by the Solar Energy Society.

Professor Campbell, in collaboration with Bert King of Psychology Programs of the Office of Naval Research is writing the second volume of a two volume pair entitled QUEST FOR RAPPORT, TRAINING IN CROSS-CULTURAL INTERACTION. The first volume is already in press.

Professor Murphy completed preparation of a paper on "The Structural Landform Regions of the World" for presentation at the annual meeting of the Association of American Geographers. He continued research on the raison d'etre of the political pattern of the world and on the world distribution of ethnic types.

Professor Snead completed his work on an ATLAS OF WORLD PHYSICAL FEATURES which is being published by Wiley. He has continued his research on the coastal areas of the Gulf of California and returned there for additional field work during the Christmas holiday. He received an additional grant of \$500.00 for research during this period. Professor Snead has been invited by the Archaeology Department of the University of Pennsylvania to join a research expedition to Afghanistan during the second semester of this coming year, and he is making plans accordingly. He will be taking two graduate assistants with him from the departments of Geography and Geology at UNM, and these students will each receive a Ford Foundation Graduate Traineeship Scholarship.

Activities in learned and professional societies.

Staff members were active in learned and professional societies especially during the second semester. Nevertheless, there were some

activities before January involving the bulk of the staff.

Professor Bennett continued to serve as a United States representative on the Board of Directors of the International Solar Energy Society and on the Editorial Board of the journal SOLAR ENERGY. In this latter capacity, he reviewed three papers submitted for publication. Professor Bennett also refereed, for the editor of the GEOGRAPHICAL REVIEW of the American Geographical Society, a dispute between two geographers over the paper of a third geographer. In connection with Professor Bennett's work with the American Meteorological Society, he appeared on a local television program on July 17 to award 100th Anniversary Weather Service Medals to Professor Victor Regener of UNM, to Mr. Steve Reynolds who is the State Engineer, and to Dr. Sterling Colgate who is President of New Mexico Institute of Mining and Technology.

Professor Campbell attended the Second Annual Environmental Design Research Association Conference held in Pittsburgh in October. He went as a representative of UNM.

Professor Murphy submitted a paper on "Structural Landform Regions of the World" for presentation at the annual meeting of the Association of American Geographers. The paper was accepted for presentation at the spring meeting and for publication in the PROCEEDINGS.

Professor Snead attended the annual meeting of the Association of American Geographers held in San Francisco in August. He was invited to attend the NASA Remote Sensing Conference concerning the Arizona Ecological Test Site at Tucson, and he went to this meeting

in October. Professor Snead serves on the Selection Committee for Danforth Graduate Scholarships. The committee met in St. Louis in December.

Other professional activities.

Other professional activities during the first semester were limited to a talk given by Professor Snead at McKinley Junior High School in December. Professor Snead spoke on his travels in India and Pakistan.

Non-teaching university service.

All the faculty members of the Geography Department act as advisors to graduate and undergraduate students. In addition, professor Campbell and Professor Murphy rendered non-teaching university service in several capacities.

Professor Campbell served as a member of the Council on Environmental Studies of the University. He was also a member of the Promotions Committee. As a member of the "town-gown" committee of the Urban Observatory, he was involved with relations both inside and outside the University Community.

Professor Murphy serves as Chairman of the Geography Department. He is a member of the Russian Studies Committee. As a member of the International Affairs Committee, he was appointed to an ad hoc committee to consider the feasibility of an undergraduate major in international affairs. With Dr. Gerald Slavin, Director of the Office of International Services, he investigated the matter and submitted preliminary and final reports with negative conclusions. Both the International Affairs program and the Western European

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Studies program are being phased out, thus terminating Professor Murphy's work on the two committees involved.

The Report of the Department of Geology

July 1, 1970--June 30, 1971

Lee A. Woodward, Acting Chairman

A. Significant Achievements

The Department of Geology underwent considerable reorganization during 1970-71 after the appointment of Lee A. Woodward as Acting Chairman. This reorganization included setting up faculty committees for the following: Undergraduate Program (G.R. Clark, Chairman), Graduate Program (E.F. Cruft, Chairman during 70-71, and A. Rosenzweig, Chairman 71-on), Personnel Committee (S.A. Wengerd, Chairman), and Expenditures Committee (L.A. Woodward, Chairman). These committees have made considerable progress in up-grading the quality of both our graduate and undergraduate programs.

Although the Department is striving for continued improvement in quality, we were pleased to note that Geology was ranked among the leading, quality institutions by ACE. In view of the fact that Geology is the only pure science department on campus that was ranked by ACE, it behooves the administration to see that support for the Department continues to allow us to advance further as one of the leading Geology Departments in the U.S.



On a local scale, the Spolsky report also showed that Geology was the top science department at UNM."

Another index of the quality of the Department is the scientific productivity of the staff. During the period July 1-December 31, 1970, the staff averaged 3.7 publications each.

Inasmuch as the New Mexico produces over \$1 billion of minerals and fuel and also imports geologists for this work, UNM should strive to produce a sufficient number of top-quality geologists to meet the demands within the state. Also, the current emphasis on environment has aroused a new interest in geology on the part of the layman. A new course "Earth Environment" has been introduced to take care of this interest.

Many scientific, industrial, and other people come to the campus during the year for consultation with staff members, to inspect the department, for job interviews and recruiting of students. About 25 major petroleum and mining companies interviewed students as prospective employees. All degree recipients had been employed by the end of the year.

The following speakers visited and delivered talks before staff and students during the year:

G.R. Jiracek, Univ. California, Berkeley

E.M. Shoemaker, Cal. Tech.

Hans Suess, Univ. California, San Diego

L.F. Brown, Univ. Texas

Miles Silberman, U. S. Geol. Survey

D.G. Brookins, Kansas State

D.L. Smith, Univ. Montana

M.J. Brady, Rice Univ.

C.T. Seimers, Indiana Univ.

R.H. Jahns, Stanford Univ.

J.R. McGugan, Canadian Geol. Survey

Y.U. Frolov, USSR Acad. Sci.

Peter Lipman, U. S. Geol. Survey

Peter Coney, Middlebury College

In addition, the Department and the Institute of Meteoritics hosted a meeting of the Group For The Analyses Of Carbon Compounds In Carbonaceous Chondrites And The Returned Lunar Samples on September 11-12, 1970 in the Geology Building. This conference was attended by about 30 scientists, including several Nobel Laureates.

The following faculty research grants were in effect during 1970-71:

R.Y. Anderson	NSF Research Grant	\$ 17,000.
G.R. Clark	NSF Research Grant	15,700.
E.F. Cruft	NORD Resources Corp.	96,500.
E.F. Cruft	Sandia Corp.	3,000.
W.E. Elston	NASA Research Grant	33,000.
W.E. Elston	NASA Research Grant	15,630.
W.E. Elston	NASA - Ames	3,950.
Klaus Keil	NASA - Ames	15,243.
Klaus Keil	NASA - Ames	2,420.
Klaus Keil	NASA - Ames	2,380.
Klaus Keil	NASA - Ames	5,200.
Klaus Keil	NASA - Ames	42,000.
Klaus Keil	NASA - MSC	46,550.
Klaus Keil	NASA - MSC	28,500.
Klaus Keil	NASA - MSC	140,000.
Klaus Keil	NASA Hdqtrs. UCLA	3,500.
Klaus Keil	NASA Hdqtrs. UCLA	3,000.
Klaus Keil	Sandia Corp.	14,632.
Klaus Keil	Sandia Corp.	3,000.
Klaus Keil	UNM Res. Alloc. Comm.	1,000.
A.M. Kudo	NSF Res. Grant	29,800.

Research grants in effect during 1970-71 continued:

Lee A. Woodward	N.M. Bureau of Mines	7,000.
Lee A. Woodward	UNM Res. Alloc. Comm.	450.
Lee A. Woodward	Tenneco Oil Co. Grant	2,500.
Total		<hr/> \$531,955.

## B. Students

The Department of Geology granted 13 bachelor's degrees, 4 master's degrees, and 4 doctor of philosophy degrees. This compared with 9, 9, and 4 degrees respectively for the previous academic year. About 70 undergraduates were enrolled for bachelor's degrees in geology. Fifty-five students were enrolled for graduate work of which about 28 were working toward a doctorate. Enrollment was up about 10 percent for the year compared to about 14 per cent for the University as a whole.

The Department received the following financial support for 19 of its majors. In addition, the University supported 16 graduate students at about \$2,600. per year.

These students received the following aid:

Martin L. Bregman	\$ 125.	N. Mex. Geol. Soc.
Fred Busche	4,500.	NASA
Edmond Deal	5,100.	NASA
John F. Dillon	3,200.	Std. Oil Calif. Fellowship
Ronald V. Fodor	3,075.	NSF Res. Grant
George Fullas	1,800.	Res. Asst. NSF
George Fullas	400.	Herrick Scholarship
Jonathan A. Green	3,000.	NSF Res. Assistantship
Harry P. Hoge	100.	Roswell Geol. Soc.
Harold W. Holmberg	200.	N. Mex. Geol. Soc.

Harold W. Holmberg	500.	Tenneco Oil Co.
F. Amrisar Kaharoeddin	100.	N. Mex. Geol. Soc.
Douglas H. Krohn	2,400.	NDEA
Douglas H. Krohn	750.	NASA
Raymond S. Lambert, Jr.	1,200.	NASA Res. Ass't.
David W. Love	2,400.	NSF
Douglas McLelland	750.	Bear Creek Res. Grant
Richard K. Reed	500.	N. Mex. Bur. Mines
Otto Schumacher	220.	N. Mex. Geol. Soc.
Otto Schumacher	500.	N. Mex. Bur. Mines
William L. Shaffer	900.	NSF
Samuel Robert Skaggs	4,000.	Sandia Corp.
Charles L. Weaver	500.	N.M. State Bur. Mines

Many of our students have gone on to distinguished careers in geology, including a number in teaching and research institutions throughout the country.

One of our outstanding undergraduates, Judy Brower, was given an award by Sigma Xi for excellence in research.

#### C. Significant Plans and Recommendations:

The renovation and addition to the Geology Building to begin in the summer of 1971 will provide the necessary space for the Department to function better. This alleviation of the space problem is but one of the things needed to make the

Department tops in geology.

The following recommendations are urgent:

1. We need 3 more technicians to provide the necessary backup for our present staff. These technicians include a draftsman-photographer, staff chemist, and rock preparator and curator.
2. Our equipment budget is about 1/4 of what we need to provide the basic teaching tools for our students.

#### D. Appointments to staff

The following appoint<sup>ment</sup>s were made, effective Semester I,

1971-72:

1. Dr. Douglas G. Brookins, Professor, with specialization in isotope geochemistry and radiometric geochronology.
2. Dr. Charles T. Siemers, Assistant Professor, specialization in sedimentology and paleontology.
3. Dr. George R. Jiracek, Assistant Professor, specialization in geophysics.

In addition, Lee A. Woodward, presently Acting Chairman, was appointed Chairman, effective July 1, 1971.

Mrs. Sharon Hamilton became Department Secretary in May, 1971.

E. Separations:

There were no separations on the part of the full-time teaching staff. Dr. P. M. Terlecky, Adjunct Assistant Professor, is being transferred by the U. S. Air Force to Cambridge, Massachusetts. Mrs. Alice Reid resigned as Department Secretary in April, 1971.



## II. COMPOSITE OF INDIVIDUAL BIOGRAPHICAL SUPPLEMENT

### 1. Advanced Study

None.

### 2. Sabbaticals

Roger V. Anderson: Sabbatical leave beginning Feb. 1970 to Feb. 1971. Deployment of environmental monitoring device in lakes, reservoirs, and inlets in Pacific Northwest and B.C. Design and testing of equipment, writing of proposals and preparation for new course in Earth Environment.

George R. Clark, II: Research Fellow in Biology, California Institute of Technology, at Kerckhoff Marine Laboratory, Corona del Mar, California, 5 June to 5 September, 1970. (without stipend).

E. F. Cruft: Field work on tin-tungsten mineralization in southwest Africa. July, 1970. Carbonatite in Brazil - August, 1970. On Sabbatical to June 1, 1970 - in Africa and Australia and New Zealand.

Wolfgang E. Elston: NASA-sponsored field work, June-July 1970, in southwestern New Mexico and near Flagstaff, Arizona. Travel in Europe: Geologic field work and sampling at Ries and Steinheim meteorite-impact structures (Germany), South Tyrolean volcanic field (Italy). Colloquium at University of Tübingen (Germany). Attended 14th General Assembly, International Astronomical Union, Brighton, England, August 18-27, as representative of American Geophysical Union on Working Group 3 (Lunar Geology and Geophysics) Commission 17 (The Moon).

Klaus Keil. Field work on basaltic volcanic rocks July 28 to August 28, 1970 on the islands of Oahu, Maui and Hawaii. Tokyo and Kyoto, Japan, with field trips to Mt. Fuji and the Nagatoro area. Meeting of the International Mineralogical Association (U.S. Representative on the Commission on Cosmic Mineralogy) August 29, to September 10, 1970. Twenty-eighth meeting of the Electron Microscopy Society of America held in Houston, Texas on October 5-8, 1970. Pacific Conference on Chemistry and Spectroscopy, San Francisco, California, October 6 to 9, 1970. Annual Meeting of the New Mexico Mining Association and the Southwest International Mining Association, Carlsbad, New Mexico, October 22-24, 1970. Shenandoah National Park, Skyland, Virginia, Annual Meeting of the Meteoritical Society, October 25-27, 1970. Saguaro Guest Ranch, Mesa, Arizona. Penrose Conference on ultramafic rocks and the origin of the earth's mantle. November 30 to December 4, 1970.

Albert M. Kudo. Travel to Atlantic City to attend Annual Meeting of Geological Society of America. Travel to Boston, Mass. to attend Symposium. Travel to Washington, D. C. to attend and read paper at Annual Meeting of the American Geophysical Union.

Abraham Rosenzweig. Summer 1970. Visits to Smithsonian Institution and to Geology Departments of Franklin & Marshall College, Bryn Mawr College, Univ. of Penna., Mt. Holyoke, Amherst, U. of Mass., U. of Chicago, U. of Illinois. Winter 1970-71. Visits to Amer. Museum of Natural History, Columbia Univ., and several private mineral collectors in New York City.

Sherman A. Wengerd. Travel to Colorado, Utah, Wyoming, Montana, to Calgary, Alberta via camper-truck for AAPG-SEPM meetings June 17-25, 1970, as President-Elect of AAPG.

Lee A. Woodward. Travel to Montana, Colorado, and Mexico.

### 3. New scholastic honors, etc.

Wolfgang E. Elston. Research Associate, Geochronology Lab., University of Arizona.

Klaus Keil. Elected member of the Committee on Electron Microprobe Standards, Geochemical Society (July, 1970). Elected Secretary of the Commission on Cosmic Mineralogy, International Mineralogical Association (September, 1970). Elected General Chairman, National Meeting of the Electron Probe Analysis Society of America, Albuquerque, August 1973 (September 1970). Elected to membership in the 21 Club, University of New Mexico, Albuquerque, New Mexico (October 1970). Past-President, Meteoritical Society (1970-1972). Recipient of the Blue Ribbon Award of the Western Fairs Association and the New Mexico State Fair, for Moon Rocks Exhibit (this is the third time in the history of the New Mexico State Fair that this special award was given). December 1970. Elected member of the International Platform Association (December 20, 1970). Associate Editor, Proceedings of the Apollo 12 Lunar Science Conference, to be published in three volumes by the Geochemical Society and the Meteoritical Society (December, 1970). Elected President-elect, Electron Probe Analysis Society of America (for 1971), President in 1972 (December 1970).

Sherman A. Wengerd: Made an Honorary Life-Time member of the New Mexico Geological Society on October 29, 1970 at 21st Annual Field Trip Banquet in Deming, New Mexico. Invitation to be in "Who's Who in America" 37th Biennial volume. Listed in Dictionary of International Biography Seventh Edition 1970-71.

#### 4. Publications

Kirkland, D. W. and Anderson, R. Y., 1970.

Microfolding in Castile and Todilto Evaporites,  
Texas and New Mexico: Geol. Soc. America  
Bull., v. 81, pp. 3259-3282.

Anderson, R. Y., Dean, W. E., Jr., Snider, H. J.,  
and Kirkland, D. W., (accepted for publ.).  
Varved Permian evaporite sequence, Texas and  
New Mexico: Geol. Soc. America Bull.

Clark, George R., II, Daily Growth Ridge Accretion  
in the Scallop Pecten diegensis, Geol. Soc.  
Amer., Abstracts with Programs, 2,521-522, 1970.  
(abstract).

Cruft, Edgar F., Cagle, F. R., Gypsum deposits  
at Coast of S. W. Africa. 3rd Int'l Salt  
Symposium, pp. 156-165.

Cruft, Edgar F., Nucleation Kinetics of the gypsum -  
anhydrite system - with P. Chao, 3rd Int'l Salt  
Symposium, pp. 109-119.

Elston, Wolfgang E., Smith, Eugene I., Determination  
of flow direction of ash-flow tuffs by fluidal  
textures: Geol. Soc. America Bull., v. 81  
p. 3393-3406, 1970.

- Elston, Wolfgang E., Coney, P. J., and Rhodes, R. C.,  
 Progress report on the Mogollon Plateau  
 volcanic province, southwestern New Mexico:  
 No. 2: N. M. Geol. Soc. Guidebook to the  
 Tyrone - Big Hatchet Mountains - Florida.  
 Mountains region, 21st Field Conf., 1970, p. 75-86.
- Elston, Wolfgang E., Volcano-tectonic control of  
 ore deposits, southwestern New Mexico: N. Mex.  
 Geol. Soc. Guidebook to the Tyrone - Big  
 Hatchet Mountains - Florida Mountains region,  
 21st Field Conf. 1970, p. 147-153.
- Elston, Wolfgang E., Structural control of pre-20m.y.  
 volcanic centers: Clue to early evolution of  
 Rio Grande trough (abs.): N. Mex. Geol. Soc.  
 Guidebook to the Tyrone - Big Hatchet Mountains -  
 Florida Mountains region, 21st Field Conf.,  
 1970, p.
- Elston, Wolfgang E. (with others) Road log from  
 U. S. 180 Junction with N. M. 61 to Junction  
 N. M. 61 and 90: Ibid., p. 2-6.
- Fitzsimmons, J. Paul., Translation from Russian  
 of "Heterogeneous Processes of Geochemical  
 migration" by Goluber and Garibyants (190 pages),  
 being published by Plenum Press.
- Keil, Klaus, Electron microprobe analyses of pyroxenes,  
 plagioclases, and limenites from Apollo 11  
 lunar samples. Special Publication No. 1, UMM -  
 Institute of Meteoritics, p. 1-19 (1970)  
 (with T. E. Bunch and M. Prinz).

- Keil, Klaus, Titanian chromite, aluminian chromite, and chromian ulvospinel from Apollo 11 rocks. *Geochim. Cosmochim. Acta*, Supplement 1, 1, 81-86, 1970 (with S. O. Agreel, A. Peckett, F. R. Boyd, S. E. Haggerty, T. E. Bunch, E. N. Cameron, M. R. Dence, J. A. V. Douglas, A. G. Plant, R. J. Traill, O. B. James, and M. Prinz).
- Keil, Klaus. Armalcolite: A new mineral from the Apollo 11 samples. *Geochim. Cosmochim. Acta*, Supplement 1, 1, 55-63, 1970 (with A. T. Andersen, T. E. Bunch, E. N. Cameron, S. E. Haggerty, F. R. Boyd, L. W. Finger, O. B. James, M. Prinz, P. Ramdohr, and A. El Goresy).
- Keil, Klaus, The melting of asteroidal-sized bodies by unipolar dynamo induction from primordial T. Couri sun. *Astrophysics and Space Science* 7, 446-488 (1970) (with C. P. Sonett, D. S. Colburn, and K. Schwartz).
- Keil, Klaus, Heating of basalts with a carbon dioxide laser. *Science* 170, 435-438 (1970) (with M. Blander, L. S. Nelson, and S. R. Skaggs).
- Keil, Klaus. Carbon compounds in lunar fines from Mare Tranquillitatis - 1. Search for molecules of biological significance. *Geochim. Cosmochim. Acta*, Supplement 1, 2, 1813 - 1828 (1970) (with K. A. Kvenvolden, S. Chang, J. W. Smith, J. Flores, K. Perring, C. Saxinger, F. Wooller, I. Breger, and C. Ponnamperna).
- Kudo, Albert M. An igneous plagioclase thermometer, contributions to Mineralogy and Petrology, vol. 25, p. 52-70, 1970.

- Kudo, Albert M., Laboratory Manual for Physical Geology, UNM Press, 1969.
- Kudo, Albert M., Mantle Rocks brought to surface by volcanic action the Obsidian Observer, vol. 4 no. 6, 1969.
- Kudo, Albert M., Sr. isotopic and chemical analyses of lherzolite inclusions and basalts, Bandera Crater, N.M.; transaction Amer. Geophysical Union vol. 51, no. 4, p. 449, 1970.
- Rosenzweig, Abraham, Homme, F. C., Contact Metamorphism in the Tres Hermanos Mountains, Luna County, New Mexico; New Mexico Geological Society, Guidebook, 21st Field Conference, p. 141-145.
- Wengerd, Sherman A., Environment, Decision, and Leadership - the President's page. The New Mexico Certified Geologist, vol. 4, no. 2, p. 2, May, 1970.
- Wengerd, Sherman A., The Western Regional Conference on the Professional Status of Geologists, p. 3-7; Progress and Poverty - A Study of Values - The President's page, The New Mexico Certified Geologist, vol. 4, no. 3, p. 2, August, 1970.
- Wengerd, Sherman A., Petroleum Prospects in southwesternmost New Mexico, Guidebook 21st Field Conference, Tyrone-Big Hatchet Mountains-Florida Mountains Region, NMGS, p. 91-104.
- Wengerd, Sherman A., "Robert A. Zeller, Jr. - A Memorial", p. v, Guidebook of the 21st Field Conference, as above; "Creativity, Obsolescence, and Obfuscation" - the President's page, The New Mexico Certified Geologists, vol. 4, no. 4, p. 2, November, 1970.

- Woodward, Lee A. Guidebook to the Tyrone-Big Hatchet Mountains-Florida Mountains Region: New Mex. Geol. Soc. 21st Ann. Field Conf. 162 p., 1970.
- Woodward, Lee A. Introduction in Guidebook to the Tyrone-Big Hatchet Mountains - Florida Mountains Region: New Mex. Geol. Soc. 21st Ann. Field Conf. p. x., 1970.
- Woodward, Lee A. Stratigraphic Nomenclature Chart in Guidebook to the Tyrone-Big Hatchet Mountains - Florida Mountains Region: New Mex. Geol. Soc. 21st Ann. Field Conf. p. xl; 1970.
- Woodward, Lee A. Precambrian rocks of southwestern New Mexico in Guidebook to the Tyrone - Big Hatchet Mountains - Florida Mountains Region: New Mex. Geol. Soc. 21st Ann. Field Conf. p. 27-31. 1970.
- Woodward, Lee A., Corbitt, L. L., Thrust faults of the Florida Mountains and their regional tectonic significance in Guidebook to the Tyrone - Big Hatchet Mountains - Florida Mountains Region: New Mex. Geol. Soc. 21st Ann. Field Conf. p. 69-74, 1970.
- Woodward, Lee A., Time of emplacement of Pinto Diorite, Little Belt Mountains, Montana: Wyo. Geol. Assoc. Earth Sci. Bull. v. 3, no. 3, p. 15-26, 1970.
- Woodward, Lee A., Differentiation trends of spessartite dikes, Sandia Mountains, New Mexico: Jour. Geology, v. 78, p. 741-745, 1970.
- Woodward, Lee A., Nomenclature and correlation of some late Precambrian-basal Cambrian sequences in western Utah and southern Idaho: Geol. Soc. America Bull. (in press), 1971.



Woodward, Lee A., Geologic map of the Cuba, N. M. 7½-minute quadrangle: New Mex. Bureau Mines and Min. Res. (in press).

Woodward, Lee A., Geologic map of the La Ventana, New Mex.

7½-minute quadrangle: New Mex. Bureau of Mines and Mineral Res. (in press).

Woodward, Lee A., Corbitt, L. L., Cordilleran foldbelt in southwestern New Mexico: Geol. Soc. America Abstracts with Programs, v. 3 (in press).

#### 5. Other Research Projects, etc.

Roger Y. Anderson. National Science Foundation research grant GA13573, Climatic cycles and patterns in varved sediments-Castile Project, two years, \$48,500.

George R. Clark, II. National Science Foundation Grant GB-20692, Daily Growth Lines in the Bivalve Family Pectinidae, \$31,400, 1 June 1970 to 31 May, 1972.

Edgar F. Cruft. Preparation of research proposal on "Metallogenetic Provinces related to crustal geochemistry" in this period. Research on tin-tungsten mineralization related to high level granitic activity studies of columbian mineralization in alkali-syenite and carbonatite complexes.

Wolfgang E. Elston. Earth Scientists commemorated on the Moon's far side (published Geotimes, v. 16, no. 2, p. 18, 1971)  
Evidence for lunar volcano-tectonic features: submitted to J. Geophysical Res., April, 1971. (with Laughlin, A. W., and Brower, J. A.), Lunar near-side tectonic patterns from Orbiter 4 photographs: J. Geophys. Res., in press (April, 1971). (with Aldrich, M.J., Smith, E.I., and Rhodes, R.C.), Non-random distribution of lunar craters: J. Geophys. Res., in press (April, 1971)  
Research Proposal Submitted and Accepted: Mars: Search for Evidence of Dynamic Processes, NASA grant NGR 32-004-062, Renewal No. 1, funded from January 1, 1971, through August 31,

1971. Amount granted \$13,000. Research Proposals Submitted:  
Volcanological Approach to the Interpretation of Lunar  
Features, NASA grant NGL 32-004-011, Renewal of step funding  
 requested from February 1, 1971 through January 31, 1974.  
 Amount requested: \$52,250 (verbal assurance of acceptance  
 assured) (jointly with A. M. Kudo) Terrestrial volcanic analogs  
of lunar and martian surface features, renewal proposal under  
 Omnibus Agreement between NASA-Ames Research Center and UNM  
 from June 1, 1971, to May 31, 1972. Amount requested: \$3,950.  
 (verbal assurance of acceptance, possibly with increase over  
 amount requested). Research Proposal Completed: Mars: Search  
for evidence of dynamic processes, NASA grant NGR 32-004-062,  
 renewal, September 1, 1971, through August 31, 1972. Amount  
 Requested: \$26,800 (verbal assurance of acceptance). Signed  
 contract with New Mexico Bureau of Mines and Mineral Resources  
 for Bulletin on Mineral Resources of Hidalgo County. UNM Press  
 agreed in principle to publication of a symposium-style volume  
 on volcanism in southwestern New Mexico. I will be editor and  
 contributor. Publications in which I am not an author, but in  
 which the author was supported by research grant of which I am  
 Principal Investigator: 1 article, 6 abstracts.

J. Paul Fitzsimmons: Study of clastic sediments in evaporites  
 from Red Lake, Mohave Co., Arizona. (for El Paso Nat'l Gas Co.  
 work completed). Study of mineral particles emitted from stack  
 of Kaiser's Rosario gypsum plant - completed.

Albert M. Kudo: Research on Grant (NSF GA-4428) \$29,800  
 for two years, Nov. 1968-70. Research - continuing on ultra-  
matic inclusions - papers have been submitted to journals for  
 publication. Research - on melting of sediments and granitic  
rocks under  $\text{PH}_2\text{O}$ . Received \$1200 from Research Allocations  
 Committee, July 1, 1970 to June 30, 1971

Abraham Rosenzweig: Continuing study of minerals of Chinkuashih, Taiwan. Continuing study of structure of copper minerals.

Sherman A. Wengerd: Review of "Methods for the Study of Sedimentary Structures" by Arnold Bouma, 450 pp. John Wiley & Sons, N. Y., 1969. (to be published in Journal of Marine Technology Society); "Preparation of Illustrations", Chapt. Geological Writing (C.E.G.S. and A. E. S. E. Handbook in press); Review of "Volcanoes", by Cliff Ollier, 177 pp., The MIT Press, Cambridge, 1969 (to be published in Journal of Marine Technology Society); "Chromostratigraphic Analyses and the Time Surface" 16 p. typescript, 6 fig. Boletin de la Sociedad Geologica Mexicanos (in press); "Coastal Geomorphology, Bahia San Carlos, Estero San Francisco, Western Sonora" (research in progress since 1954); "Exploration Geology as a Way of Life", World Oil, (in press for Exploration Issue, April, 1971).

Lee A. Woodward: Mapping of Sierra Nacimiento (supported by New Mexico Bureau of Mines and Mineral Resources for \$3,000. Earth Resources \$675, and Bear Creek Mining Co. \$750).

Klaus Keil: 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. Grant from UNM Research Allocations Committee entitled "Mineralogy petrology, and chemistry of the Burdett, Kansas, stone meteorite". Duration: November 7, 1969 to June 30, 1970. \$1,000.00. Equipment, permanent loan from NASA Ames Research Center, Moffett Field, California. Estimated value \$42,000.00. Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar sample. Duration: August 1, 1969 to August 31, 1970. \$46,550.00

Klaus Keil: (cont'd) Amendment to 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. \$140.00. Grant from NASA Headquarters, Washington, D.C. via University of California, Los Angeles, California, entitled "Mineralogy and petrology of type II and III carbonaceous chondrites". Duration: July 1, 1969 to June 30, 1970. \$3,000.00 Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Study of microparticles by electron microprobe and x-ray techniques". Duration: September 1, 1969 to August 31, 1970. \$14,632.00. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of Crab Nebula". Duration: October 1, 1969 to June 30, 1970. \$2,380.00. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of collisionless 'damping'". Duration: July 1, 1970 to June 30, 1971. \$5,200.00. Research contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". Duration: September 1, 1970 to January 31, 1971 \$28,500.00. Research Grant from NASA Headquarters via the University of California, Los Angeles, California, entitled "Mineralogical and chemical study of carbonaceous chondrites". Duration: July 1, 1970 to June 30, 1971. \$3,500.00. 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: February 1, 1971 to January 31, 1974. \$140,000.00. Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Preparation of thin sections and x-ray patterns of micron-sized refractory spherules". Duration: January 1, 1971 to June 30, 1971. \$3,000.00. Total Contracts and Grants in effect \$305,005.00.

## 6. Activities in learned and professional societies.

Roger Y. Anderson: Correspondent for journal Micropaleontology, Rocky Mtn. Region. Member, Geol. Soc. America, Review of G.E. Hutchinson's Ianula volume for Limnology and Oceanography.

George R. Clark II: Attended Annual Convention of AAPG and SEPM, 22-24 June 1970, Calgary, Alberta. Attended and presented paper (see No. 4) at Annual Meeting of GSA, 11-13 November, Milwaukee, Wisconsin.

Wolfgang E. Elston: Attended 14th General Assembly, International Astronomical Union, Brighton, England, August 18-27 (see Item 2, above). Appointed to international committee to draft Report on Direct Lunar Exploration and Returned Lunar Samples. Invited participant, Gordon Research Conference on Physics and Chemistry of the solar system, Tilton, N.H., July 5-9. Attended meeting of NASA-sponsored Planetology Program Principal Investigators (SPPPI, pronounced spy), Brown University, Providence, R. I., Sept. 24-25, 1970. Gave paper (with E. I. Smith) on progress in mapping the geology of Mars from Mariner 6 and 7 imagery. Invited speaker, Symposium on Meteorite Impact and Volcanism, Universities Space Research Association, held at Lunar Science Institute, Houston, Texas, October 19-23, 1970. Read papers Evidence for lunar volcano-tectonic features and (with R. C. Rhodes) Evolution of the Mogollon Plateau, New Mexico, Possible Volcano-Tectonic Analog of a 125-km Lunar Crater. Summarized all invited papers on volcanism. Elected Fellow, The Meteoritical Society.

J. Paul Fitzsimmons: Member of Executive Committee of UNM Chapter of Sigma Xi, nomination committee of Sigma Xi and Committee to Establish Guidelines for Admission to Sigma Xi.

Klaus Keil: Member of the Committee on Electron Microprobe Standards, Geochemical Society (July, 1970). Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association (September, 1970). Chairman, Meeting of the Group for the Analysis of Organic Compounds in Rocks, Meteorites, and the Moon, Albuquerque, New Mexico. General Chairman, National Meeting of the Electron Probe Analysis Society of America, Albuquerque, New Mexico, August 1973. (September 1970). Associate Editor, Proceedings of the Apollo 12 Lunar Science Conference, Geochemical Society and Meteoritical Society. President-Elect Electron Probe Analysis Society of America (1971). President (1972). Meetings and professional papers. International Mineralogical Association, Tokyo-Kyoto, Japan. Invited talk on "Apollo 11 and 12 rocks: Origin and history of the Moon". September 6, 1970. Optimist Club, Albuquerque, New Mexico. Talk on "Moon Rocks". September 25, 1970. 28 Annual Meeting, Electron Microscopy Society of America, Houston, Texas. Invited talk on "Electron microprobe analysis of returned lunar samples". October 5 to 8, 1970. Pacific Conference on Chemistry and Spectroscopy, San Francisco, California. Invited talk on "Apollo 11 and 12 rocks: Origin and history of the Moon". October 6-9, 1970. Annual Meeting of the New Mexico Mining Association and the Southwest International Mining Association, Carlsbad, New Mexico. Invited talk on "Origin and history of the Moon." October 22-24, 1970. Annual Meeting of the Meteoritical Society, Shenandoah National Park, Skyland, Virginia. Two talks on "Chondrule-like spherules produced by heating with a CO<sub>2</sub>-laser: Origin of chondrules", and "Lithic fragments and glasses in Apollo 12 lunar samples. October 25-27, 1970. Annual Meeting of the Geological Society of America, Milwaukee, Wisconsin. Talk on "Composition and origin of lithic fragments and glasses from Apollo 11". November 11 to 13, 1970.

Albert M. Kudo: Presented paper at Annual Meeting of American Geophysical Union, Washington, D.C. Presented paper at Los Alamos Geological Society. Attended Annual Meeting of Geological Society of America, Atlantic City, New Jersey, and symposium in Boston, Massachusetts.

Sherman A. Wengerd: (see Travel under Section 2). Served as President of the New Mexico State Section, American Institute of Professional Geologists to Jan. 1, 1971: Served as president-Elect of American Association of Petroleum Geologists (until July 1, 1971); Advisory Board Delegate for 1971. Attended Oklahoma City Annual AAPG Meeting, October 14-19, 1970: attended annual Geological Symposium at Museum of Northern Arizona, Flagstaff, August 27-29, 1970. Admitted to membership in Sociedad Geologica Mexicana, June, 1970.

Lee A. Woodward: Editor of 1970 New Mexico Geological Society Guidebook to Tyrone-Big Hatchet Mountains- Florida Mountains Region, hard cover, 162 pages. Elected president of the Albuquerque Geological Society for 1971. Attended annual field conference of New Mexico Geological Society in southwestern New Mexico, Oct. 28-30, 1970. Attended Geological Society of America annual meeting, Milwaukee, Wisconsin, Nov. 10-13, 1970.

7. (ther professional activities

Roger Y. Anderson: Selected as AGI (American Geol. Inst.) Visiting Lecturer (not yet contacted for series).

George R. Clark: Conducted a one-week total immersion course in Seashore Geobiology at Kerckhoff Marine Laboratory, Corona del Mar, California, under auspices of UNM Undergraduate Seminar Program, for 14 UNM students.

Edgar F. Cruft: Consultant to international mineral exploration groups - Nord Resources Corp., Bethlehem Steel, Armco Steel.

Wolfgang E. Elston: Reviewed manuscripts for Journal of Geophysical Research. Reviewed two research proposals for National Science Foundation.

J. Paul Fitzsimmons: Editorial work on Russian Translations of several geological journals for Plenum Press. Evolutionary view. Russian translation for Plenum Press.

Klaus Keil: Reviewed two scientific proposals submitted to the National Science Foundation for funding. Reviewed three scientific proposals submitted to the National Aeronautics and Space Administration for funding. Consultant, Sandia Laboratories, Albuquerque, New Mexico. Exhibition of Moon rocks, pictures, models, etc. at the New Mexico State Fair, September 16 to 27, 1970. This exhibition was visited by over 70,000 New Mexicans. Several live and taped TV appearances concerned with work on Apollo returned lunar samples. Reviewed seven scientific articles submitted for publication in American Mineralogist, Geochimica et Cosmochimica Acta, Meteoritics, Science, and Earth and Planetary Science Letters. Mr. Tom Teska, technician, University of Arizona, spent two (2) weeks at UNM and was trained as an electron microprobe operator.

Abraham Rosenzweig: Visiting staff member - Los Alamos Scientific Laboratory.



Sherman A. Wengerd: No consultancies possible for lack of time on University and National and State Association work. Attended dedication of Northrop Hall (Geology Building) as one of several original designers of building, Nov. 17, 1970. Joined Geomorphology Division of Geologic Society of America, September 24, 1970.

Lee A. Woodward: TV appearance on KOAT to discuss earthquakes and related phenomena. Talks to school and scout groups. Conducted field trips and rock badge work for scouts. UNM representative for Student Grants-in-Aid of Research for New Mexico Geological Society and Roswell Geological Society.

#### 8. Non-teaching University service

Roger Y. Anderson: Faculty sponsor of Graduate Student Research Project funded by GSA and John Muir Fdn. on mercury content of coals and distribution of mercury in parts of New Mexico. Chairman, University Committee on Paleoecology.

George R. Clark II: Department Undergraduate Advisor. Member, University Curricula Committee; Member, University Environmental Council.

Edgar F. Cruft: University College advisor, 1st semester, 1970-71. Chairman, departmental committee on Graduate Program. Advisor to Ph.D. and M.S. Students.

Wolfgang E. Elston: Member, Research Policy Committee and Chairman, Research Budget Subcommittee. Chairman, Sandia-UNM Colloquium Committee. Chairman, UNM Science Colloquium Committee. Member, Publications Committee. University College advisor. Member, departmental committee on graduate studies. Directing 4 Ph.D. dissertations and one M.S. thesis.

J. Paul Fitzsimmons: Advisor for University College.

Klaus Keil: Administration of Institute of Meteoritics, including the meteorite collection. Chairman and member of several internal committees in the Department of Geology.

Albert M. Kudo: Faculty advisor for Geology Honorary Sigma Gamma Epsilon, Faculty Advisory Committee (Arts and Sciences); University College Advisor, Assistant to V.C. Kelley in handling potential graduate students' affairs, member and chairman of about 15 thesis and dissertation committees, Departmental Search Committee.

Sherman A. Wengert: Chairman of Departmental Personnel Committee; Chairman of Dean's Salary Committee for Dept. of Geology; Obtained professional library of AAPG member W.J. Ingham, and Mexican International Geologic Congress publications of geologists Lee Kilgore, for Dept. of Geology library. Wrote numerous letters of reference for graduating students, faculty seeking other positions and for membership in AAPG, AIPG, and GSA. Hosted Dr. Andres Journeaux, Professor of Geography and Geomorph. Univ. of Caen, France (Director of French Geomorphological Institute); Faculty sponsor for Campus Gold (UNM Girl Scout Organization).

Lee A. Woodward: Faculty advisor for 45 graduate students in Geology Department. Chairman of 13 thesis and dissertation committees during 1970-71. Member of Research Allocations Committee. Acting Chairman of Geology Department.

#### 9. Public service.

Wolfgang E. Elston: Talks in public schools. Advisor to Boy Scouts.

J. Paul Fitzsimmons: Identification of Minerals and Rocks for individuals applying to the geology department for this service (22 individuals with from 1 to 15 samples apiece).

Klaus Keil: Many private showings of Moon rocks to interested citizens, school classes, and other groups. Many private showings of meteorite collection to interested citizens, school classes, etc. Organized public Moon rock exhibit at New Mexico State Fair, September 16-27, 1970, visited by 70,000 New Mexicans. Examined 8 rocks of suspected meteoritic origin donated by interested citizens.

Albert M. Kudo: Gave three demonstrations and talks to Grades 1, 5, and 6, at Kirtland Public School. Volunteer work at St. Anthony's Home for boys. Coach for Lobo Hockey Team in N.M. Hockey League.

Sherman A. Wengerd: Member of new "Metropolitan Airport Development Committee" for development of West Mesa facilities; (Representative of professional geologists). Member of Director's Advisory Committee, Bureau of Mines and Mineral Resources, Socorro.

Lee A. Woodward: Field trips and talks for Scout groups.

#### 10. Personal information

Sherman A. Wengerd: Member of Advisory Board - Greater Southwest Corporation, Albuquerque; became member of Elks Club B.P.O.E. #461, Albuquerque, Oct. 12, 1970; member of Harvard Club, member Reserve Officers Association, Sandia Base, Oct. 1970.

The Report of the Institute of Meteoritics

Department of Geology

July 1, 1970 - June 30, 1971

Klaus Keil, Director

I. General Department Information

A. Significant achievements.

Staff and students of the Institute of Meteoritics continued work on returned lunar samples from the Apollo 11, 12, and 14 missions. Over 100 polished thin sections of moon rocks were provided by NASA for study, as well as approximately 40 grams of rock chips and loose surface material. Because of the uniqueness of these specimens, the entire staff of the Institute including students and three outside co-investigators devoted time to their study, and a number of earlier conclusions in regard to the origin of the Moon (see report for 1969-1970 fiscal year) could be confirmed. A highlight of this years work was the discovery in the returned lunar samples of three new minerals that have not yet been found on earth. Work on Apollo 11, 12, and 14 samples has so far resulted in the publication of thirteen (13) articles in major scientific journals.

A new meteorite was found near Orogrande, New

Mexico, and its study is pursued by a graduate student.

Total outside contracts and grants in effect amounted to \$357,972.00

A number of visiting scientists came to the Institute of Meteoritics, either for the purpose of study and research, or for the presentation of research seminars and talks:

Mr. Tom Teska  
University of Arizona  
Tucson, Arizona July 6-14, 1970

Dr. C. E. Nehru  
Brooklyn College  
New York, New York July 1 - August 30, 1970

Dr. C. P. Sonett  
Space Sciences Division  
NASA Ames Research Center  
Moffett Field, California October 12-14, 1970

Dr. M. O'Hara  
Grant Institute of Geology  
Edinburgh, Scotland November 26-29, 1970

Prof. H. E. Suess  
University of California  
La Jolla, California December 5-9, 1970

Dr. M. Blander  
North American Rockwell Science Center  
Thousand Oaks, California January 10-15, 1971

Dr. D. Fisher  
University of Miami  
Miami, Florida March 22-24, 1971

Dr. A. Schreiber  
Geological Survey  
Hannover, West-Germany April 6, 1971

Dr. Y. U. Frolov  
Academy of Sciences, USSR  
Moscow, USSR April 16-19, 1971

Dr. Th. Weiser  
Geological Survey  
Hannover, West-Germany May 13, 1971 -  
August 22, 1971

The Institute of Meteoritics, in cooperation with the Department of Geology, hosted the Annual Meeting of the Group for the Analysis of Carbon Compounds in Carbonaceous Chondrites and the Returned Lunar Samples. This meeting was held September 11-12, 1970 and was attended by more than 30 of the leading scientists in this field including several Nobel Laureates.

During the report period, nine (9) papers were published in major scientific journals by members of the Institute of Meteoritics.

An exhibit of returned lunar samples in a separate pavilion was organized by the Institute, in cooperation with the Public Information Office of UNM. This exhibit also contained material of general interest relating to the Department of Geology, the Institute of Meteoritics, and the University of New Mexico. Nearly 70,000 visitors were guided through the exhibit.

More than twenty-five (25) talks were presented by members of the Institute of Meteoritics, both at scientific conventions as well as to school classes and

civic groups in New Mexico. Most of the popular talks dealt with the Apollo program and its scientific implications.

The Institute of Meteoritics received the following outside support for students (graduate and undergraduate students) totalling \$26,800.00

Dorothy Boyer	NASA, Undergraduate Research Assistant	\$2,100.00
Marjorie T. Busch	NASA, Undergraduate Research Assistant	\$2,100.00
Fred D. Busche	NASA, Graduate Research Assistant	\$2,100.00
Ronald V. Fodor	NSF Research Grant, and NASA Graduate Research Assistant	\$5,175.00
Ronald P. Geitgey	Sandia Corporation, Graduate Research Assistant	\$1,350.00
Jon Green	NSF and NASA Undergraduate Research Assistant	\$4,600.00
David Keyes	NASA Undergraduate Research Assistant	\$1,350.00
Robert S. Skaggs	Sandia Corporation, Graduate Research Assistant	\$5,625.00
Robert L. Taylor	NASA Undergraduate Research Assistant	\$1,800.00
Sarah C. Taylor	NASA Undergraduate Research Assistant	\$ 600.00
<u>Total support</u>		<u>\$26,800.00</u>

The following new equipment was purchased on outside funds, totalling \$10,250.00

Electronic testing equipment for electron microprobe	\$ 1,200.00
Calculator	\$ 500.00
Zeiss microscope	\$ 3,900.00
Polishing equipment	\$ 1,500.00
R A P crystal, for EMX	\$ 750.00
Miscellaneous equipment	\$ 2,400.00
	<hr/>
	\$10,250.00

#### B. Plans and recommendations

1. Every effort must be made to provide the services of a full-time secretary for the Institute of Meteoritics. This requirement is the result of the increasing number of staff members of the Institute (total staff, including research assistants and part-time personnel, of twenty (20)).

2. It is hoped to have the meteorite collection in the Geology building and in a room adjacent to the Geology Museum by spring, 1972. The need for a part-time curator, jointly with the Department of Geology, is stressed again.

#### Staff of the Institute of Meteoritics

Dr. Klaus Keil, Director  
 Dr. Martin Prinz, Senior Research Associate  
 Dr. Gero Kurat, Research Associate \*  
 Dr. C. E. Nehru, Summer Research Associate \*\*  
 Dr. Theodore E. Bunch, Co-investigator



Dr. Kenneth G. Snetsinger, Co-investigator  
 Dr. I. Harding-Barlow, Co-investigator  
 Mr. George Conrad, Microprobe specialist  
 Mrs. Julie Hultzen, Computer programmer  
 Mrs. Hope Kendall, Secretary  
 Mr. Fred D. Busche, Graduate Res. Ass't. ( $\frac{1}{2}$  time)\*\*\*  
 Mr. Ronald V. Fodor, Graduate Res. Ass't. ( $\frac{1}{2}$  time)\*\*\*  
 Mr. Ronald P. Geitgey, Graduate Res. Ass't. ( $\frac{1}{4}$  time)  
 Mr. Jon Green, Graduate Res. Ass't. ( $\frac{1}{2}$  time)  
 Mr. Robert S. Skaggs, Graduate Res. Ass't. ( $\frac{1}{2}$  time)\*\*\*  
 Miss Dorothy Boyer, Undergrad. Res. Ass't. ( $\frac{1}{2}$  time)\*\*\*  
 Miss Marjorie T. Busch, Undergrad. Res. Ass't. ( $\frac{1}{2}$  time)\*\*\*  
 Mr. David Keyes, Undergrad. Res. Ass't. ( $\frac{1}{2}$  time)  
 Mr. Robert L. Taylor, Undergrad. Res. Ass't. ( $\frac{1}{2}$  time)  
 Mrs. Sarah C. Taylor, Undergrad. Res. Ass't. ( $\frac{1}{4}$  time)

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\* On leave from Natural History Museum, Vienna, Austria.

\*\* On leave from Dept. of Geology, Brooklyn College, New York

\*\*\* Full-time during summer

## II Composite of individual biographical supplements

### 1. Advanced study

- a) F. Busche, R. V. Fodor, R. P. Geitgey, R. S. Skaggs, Graduate Research Assistants; work towards Ph.D. degrees at UNM
- b) J. Green, Graduate Research Assistant; work towards M.S. degree at UNM
- c) D. Boyer, M. T. Busch, D. Keyes, R. L. Taylor, and S. C. Taylor, Undergraduate Research Assistants; work towards B.S. and B.A. degrees at UNM

## 2. Sabbaticals, etc.

### Klaus Keil

Islands of Oahu, Maui, and Hawaii; field work, July 28 - August 28, 1970.

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.

Houston, Texas; 28th Annual Meeting of the Electron Microscopy Society of America, October 5-8, 1970.

San Francisco, California; Pacific Conference on Chemistry and Spectroscopy, October 6-9, 1970.

Carlsbad, New Mexico; Annual Meeting of the New Mexico Mining Association and the Southwest International Mining Association, October 22-24, 1970.

Shenandoah National Park, Skyland, Virginia, Annual Meeting of the Meteoritical Society, October 25-27, 1970.

Saguaro Guest Ranch, Mesa, Arizona; Penrose Conference on ultramafic rocks and the origin of the earth's mantle. November 30 - December 4, 1970.

Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.

Santa Clara, California, First Plenar Conference with NASA Ames Research Center, Moffett Field, California, February 3-6, 1971.

Socorro, New Mexico; New Mexico Institute of Mining and Technology, March 17, 1971.

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.

Islands of Maui, Kauai, and Oahu; field work, June 7 - July 10, 1971.

Martin Prinz

Shenandoah National Park, Skyland, Virginia; Annual Meeting of the Meteoritical Society, October 27-30, 1970.

Miami, Florida; Visit to Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, October 31 - November 2, 1970.

Milwaukee, Wisconsin; Annual Meeting of the Geological Society of America, November 11-13, 1970.

New York, New York; visit to Brooklyn College, Department of Geology, November 14-15, 1970.

Mesa, Arizona; Penrose Conference on ultramafic rocks and the earth's mantle, November 30 - December 4, 1970.

Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.

Moffett Field, California; visit Space Science Division, NASA Ames Research Center, and conduct research, June 1 - July 31, 1971.

Gero Kurat

Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.

Houston, Texas; visit Lunar Science Institute, March 17-22, 1971.

Southwest New Mexico; field trip with Prof. Kelley, April 1-4, 1971.

San Carlos, Arizona; field trip to ultramafic rock locality, May 16, 1971.

Moffett Field, California; visit Space Sciences Division, NASA Ames Research Center, May 24 - June 1, 1971.

George Conrad

New York, New York; National Conference on Electron Probe Analysis, July 22-24, 1970.

Fred Busche

Houston, Texas; Apollo 12 Lunar Science Conference, January 11-14, 1971.

San Carlos, Arizona; field trip to ultramafic rock locality, May 16, 1971.

Robert Skaggs

Shenandoah National Park, Skyland, Virginia; Annual Meeting of the Meteoritical Society, October 27-30, 1970

Moffett Field, California; visit Space Sciences Division, NASA Ames Research Center, March 2, 1971.

Dorothy Boyer

Fort Stanton Cave; frequent trips for the purpose of studying the cave environment.

3. New scholastic honors, etc.

Klaus Keil

Elected member of the committee on Electron Microprobe Standards, Geochemical Society, (July, 1970).

Elected Secretary of the Commission on Cosmic Mineralogy, International Mineralogical Association (September, 1970).

Elected General Chairman, National Meeting of the Electron Probe Analysis Society of America, Albuquerque, New Mexico, August 1973 (September, 1970).

Elected to membership in the 21 Club, University of New Mexico, Albuquerque, New Mexico (October, 1970).

Past-President, Meteoritical Society (1970-1972).

Recipient of the Blue Ribbon Award of the Western Fairs Association and the New Mexico State Fair, for Moon Rock Exhibit (this is the third time that this special award was presented). (December, 1970).

Elected member of the International Platform Association (December 20, 1970).

Associate Editor, Proceedings of the Apollo 12 Lunar Science Conference, to be published in three volumes by the Geochemical Society and the Meteoritical Society (December, 1970).

Elected President-elect, Electron Probe Analysis Society of America (for 1971), President in 1972 (December, 1970).

Elected Fellow of the American Institute of Chemists  
(February, 1971).

Powell Memorial Lecturer, Arizona Academy of Sciences and  
Southwest Branch, AAAS, Phoenix, Arizona (April, 1971).

Gero Kurat

Elected Austrian Representative in the Commission on Museums,  
International Mineralogical Association.

Dorothy Boyer

UNM Academic Scholarship (since September, 1969).

#### 4. Publications

Listed are only scientific articles published  
in major national and international journals. Not listed are  
approximately 12 abstracts published in proceedings of meetings,  
etc. In order to avoid unnecessary duplication, in case of  
multiple authorship, publications are not listed for individual  
members of the Institute of Meteoritics, but as they were  
printed in the literature.

C. P. Sonett, D. S. Colburn, K. Schwartz, and K. Keil,  
The melting of asteroidal-sized bodies by unipolar  
dynamo induction from primordial T. tauri sun. *Astro-  
physics and Space Science* 7, 446-488, 1970.

M. Blander, K. Keil, L. S. Nelson, and S. R. Skaggs,  
Heating of basalts with a carbon dioxide laser. *Science*  
170, 435-438, (1970).

K. Keil, F. D. Busche, and K. Krauskopf, *Mineralogy*,  
in "A search for carbon and its compounds in lunar  
samples from Mare Tranquillitatis. NASA Spec. Publ.  
SP-257 (eds. K. A. Kvenvolden and C. Ponnamperna),  
pp. 17, 53-57 (1970).

T. E. Bunch and K. Keil, Electron microprobe analyses of  
lithic fragments and glasses from Apollo 11 lunar samples.  
Special Publ. No. 2, UNM Institute of Meteoritics, pp. 13 (1971).

F. D. Busche, G. H. Conrad, K. Keil, M. Prinz, T. E. Bunch, I. Erlichman, and W. L. Quaide, Electron microprobe analyses of minerals from Apollo 12 lunar samples. Special Publ. No. 3, UNM Institute of Meteoritics, pp. 61 (1971).

C. E. Nehru and M. Prinz, Petrologic study of the Sierra Ancha sill complex, Arizona. Geol. Soc. Amer. Bull. 81, 1733-1766 (1970).

M. Prinz, A review of geology in 1970. In "Collier's Encyclopedia Yearbook for 1970", Crowell-Collier Educational Company, 247-249, (1971).

#### 5. Other Research Projects, etc.

#### Klaus Keil

The following contracts and grants were in effect, totalling \$347,372.00.

Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar sample.

\$46,550.00

Amendment to cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts.

\$840.00

Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Study of microparticles by electron microprobe and x-ray techniques".

\$14,632.00

Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of Collisionless 'damping' ".

\$5,200.00

Research contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples".

\$28,500.00

Research Grant from NASA Headquarters via the University of California, Los Angeles, California, entitled "Mineralogical and chemical study of carbonaceous chondrites".

\$3,500.00

Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of Apollo 14 to 17 returned lunar samples".

\$140,000.00

Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Preparation of thin sections and x-ray patterns of micron-sized refractory spherules".

\$3,000.00

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy and chemistry of polymict-brecciated stone meteorites".

\$88,150.00

Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts".

\$8,400.00

Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of collisionless damping".

\$5,600.00

Research contract with Sandia Cooperation, Albuquerque, New Mexico, entitled "Preparation of thin sections and x-ray patterns of micron-sized refractory spherules.

\$3,000.00

Total grants and contracts in effect

\$347,372.00

Martin Prinz

Research Grant from the National Science Foundation entitled  
 "Petrologic study of ultramafic inclusions, San Carlos, Arizona".

\$10,600.00

Total grants and contracts in effect in the Institute of  
 Meteoritics

\$357,972.00

## 6. Activities in learned and professional societies

Klaus Keil

### Offices:

Member, Committee on Electron Microprobe Standards, Geochemical  
 Society (July, 1970).

Secretary, Commission on Cosmic Mineralogy, International  
 Mineralogical Association.

General Chairman, National Meeting of the Electron Probe Analysis  
 Society of America (September, 1970).

Member, 21 Club, University of New Mexico (October, 1970).

Past-President, Meteoritical Society (1970-1972).

Member, International Platform Association (December 20, 1970).

Associate Editor, Proceedings of the Apollo 12 Lunar Science  
 Conference, published by the Geochemical Society and the  
 Meteoritical Society (December, 1970).

President-elect, Electron Probe Analysis Society of America,  
 (for 1971), President (for 1972) (December, 1970).

Member, American Geophysical Union (January, 1971).

Member, International Union of Geochemistry (January, 1971).

Fellow, American Institute of Chemists (February, 1971).



Meetings and professional papers:

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".

28th Annual Meeting of the Electron Microscopy Society of America, Houston, Texas, October 5-8, 1970. Presented invited paper on "Electron microprobe analysis of returned lunar samples".

Pacific Conference on Chemistry and Spectroscopy, San Francisco, California, October 6-9, 1970. Presented invited talk on "Apollo 11 rocks and the history of the moon".

Annual meeting of the New Mexico Mining Association and the Southwest International Mining Association, Carlsbad, New Mexico, October 22-24, 1970. Presented invited talk on "Significance of Apollo 11 and 12 rocks to hypotheses on the origin of the Moon".

Annual Meeting of the Meteoritical Society, Shenandoah National Park, Skyland, Virginia, 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 CO<sub>2</sub> laser".

Penrose Conference on ultramafic rocks and the origin of the earth's mantle, Mesa, Arizona, November 30 - December 4, 1970.

Apollo 12 Lunar Science Conference, Houston, Texas, January 11 - 14, 1971. Presented paper on "Lithic fragments and glasses in Apollo 12".

First Plenary Conference on NASA Cooperative working agreements, Santa Clara, California, February 3-6, 1971.

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".

Martin Prinz

Meetings and professional papers:

Annual meeting of the Meteoritical Society, Shenandoah National Park, Skyland, Virginia, October 27-30, 1970. Co-author of paper on "Lithic fragments and glasses from Apollo 12".

Annual Meeting of the Geological Society of America, Milwaukee, Wisconsin, November 11-13, 1970. Presented talk on "Composition and origin of Apollo 11 lithic fragments and glasses".

Penrose conference on ultramafic rocks and the origin of the earth's mantle, Mesa, Arizona, November 30 - December 4, 1970. Presented two talks on the San Carlos, Arizona, ultramafic inclusion locality.

Apollo 12 Lunar Science Conference, Houston, Texas, January 11-14, 1971. Co-author on a paper on "Lithic fragments and glasses in Apollo 12".

#### Gero Kurat

##### Offices:

Austrian representative on the Commission on Museums, International Mineralogical Association.

##### Meetings and professional papers:

Apollo 12 Lunar Science Conference, Houston, Texas, January 11-14, 1971.

#### George Conrad

##### Meetings and professional papers:

5<sup>th</sup> National Conference on Electron Probe Analysis, July 22, 1970.

#### Fred Busche

##### Meetings and professional papers:

Apollo 12 Lunar Science Conference, Houston, Texas, January 11-14, 1971.

#### Robert Skaggs

##### Meetings and professional papers:

Annual Meetings of the Meteoritical Society, Shenandoah National Park, Skyland, Virginia, October 27-30, 1971. Presented paper on "Preparation of chondrite-like spherules with a CO<sub>2</sub> laser".

## 7. Other professional activities

### Klaus Keil

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, New Mexico.

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, New Mexico, concerning the Apollo program. (September 25, 1970).

Presented two (2) talks at the New Mexico Institute of Mining and Technology, Socorro, New Mexico, concerning returned lunar samples. (March 17, 1971).

Presented a talk before the New Mexico Medical Association, Albuquerque, New Mexico (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, New Mexico, concerning the scientific aspects of the Apollo program (May 18, 1971).

Martin Prinz

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

Gero Kurat

Presented talk at the Lunar Science Institute, Houston, Texas, 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, California, entitled "The Lancé 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.

George Conrad

Presented talk at Manzano High School Science Club entitled "Returned lunar samples" (February 11, 1971).

## 8. Non-teaching university service

Klaus Keil

Administration of the Institute of Meteoritics, including meteorite collection and museum.

Chairman and member of several internal committees in the Department of Geology

Member (with Dr. S. Solomon) of ad hoc committee appointed by the Graduate School to review the Biology Department graduate program.

#### 9. Public service

##### Klaus Keil

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.

##### Martin Prinz

Many private showings of moon rocks to interested citizens, school classes, etc.

##### Gero Kurat

Five (5) private showings of moon rocks to interested citizens, school classes, etc.

##### George Conrad

Approximately five (5) private showings of moon rocks to interested public.

# THE REPORT OF THE DEPARTMENT OF HISTORY

July 1, 1970 - June 30, 1971

Frank W. Iklé, Chairman

## I. General Departmental Information

### A. Significant Achievements

1. The following courses were added to the History curriculum:

283 La Raza

284 Afro-American History

300 The Great Transition: 20th Century America

361 American Urban History to 1870

362 American Urban History since 1870

365 The French in Colonial America (Sem. II, 71-72 only)

443 The Habsburg Empire, 1790-1918

484 The Cuban Revolution, 1959 to the Present

487 The Caribbean

490 Brazil since 1822

2. Adopted new graduate admission policies effective 1971-72.
3. Adopted new undergraduate colloquium policy to be initiated during 1971-72.
4. Reinstated Plan I for the Masters, under special conditions.

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Activities beyond the formal curriculum:

1. Louis Gottschalk, Visiting Popejoy Professor, delivered a number of public lectures during Semester II, met with student and faculty groups, etc.
2. Professor Donald Worcester of Texas Christian University gave a public lecture on Thursday, April 22.
3. CLIO, a departmental newsletter edited by Professor Dabney, was inaugurated and published approximately every six weeks.
4. Professor Emeritus France Scholes was honored with a dinner on April 9 by a number of former students, and the January issue of The Americas was dedicated to him and all articles were written by his students.
5. Participated in College of Santa Fe Summer Session.
6. Participated in Andean Center, Quito, Ecuador.
7. Participated in UNM Gallup Branch College.
8. Participated in Los Alamos Residence Center.
9. Participated in Universidad Autonoma, Guadalajara, Mexico, Summer, 1970.

Honors

1. Professor Gerald Nash delivered Annual Faculty Research Lecture on October 5, 1970.

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2. Nelson Valdés, Ph.D. Candidate, awarded Woodrow Wilson Dissertation Fellowship for 1971-72.
3. Robert McGeagh, Ph.D. Candidate, awarded NDEA Title VI Fellowship for 1971-72.
4. Calvin Roberts, Ph.D. Candidate, awarded a UNM Fellowship for 1971-72.
5. William Pickens, History M.A., named Legislative Intern for 1971 session of New Mexico Legislature.

B. Enrollment, graduates, etc.

Undergraduate History Majors graduated in academic year  
1970-71 -- 69

Undergraduate History Minors graduated in academic year  
1970-71 -- 52

Present Graduate Enrollment:	Ph.D.	82
	M.A.	77

Degrees conferred, 1970-1971:	Ph.D.	16
	M.A.	13

Teaching positions held by 1970-71 Ph.D.'s

Timothy Barnes - California State College, San Luis Obispo,  
California

Jerry Cooney - Washington State University, Pullman, Wash.

James Forsythe - Fort Hays Kansas State College, Fort Hays,  
Kansas

Randall Hansis - North Adams State College, North Adams, Mass.

Elmer Harrelson - Visiting Part-time Instructor, UNM

Marvin Lomax - University of Tulsa, Tulsa, Oklahoma

David Miller - Cameron State College, Lawton, Oklahoma

Philip Nicholson - Nassau Community College, Garden City, N.Y.

Louis Pérez - Univ. of Southern Florida, Tampa, Florida

Daniel Tyler - Colorado State College, Fort Collins, Col.



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Other

Barry Crouch - Fellowship in Black Studies, Howard Univ.  
Linda McKee - Archive-Technician, Federal Records Center, Kansas City, Mo.

C. Significant Plans and Recommendations for the future

The department is engaged in reviewing its graduate program in order to meet with the changing demands in that area of its activities.

D. Appointments to Staff

1. Elmer Harrelson appointed Visiting Part-time Instructor for 1970-71.
2. Allen Gerlach appointed Assistant Professor of Latin American history at the Andean Center, Quito, Semester II. Mr. Gerlach appointed Visiting Assistant Professor at UNM for academic year 1971-72.
3. Winfield Burggraaff appointed Visiting Assistant Professor, Summer Session 1970.
4. Howard Rabinowitz appointed Instructor in U.S. History effective Semester I, 1971-72.
5. Father John Bannon appointed Visiting Professor, 1971-72.
6. Richard Gordon appointed Visiting Assistant Professor for academic year 1971-72.
7. Gabriel Adeleye appointed Visiting Instructor for academic year 1971-72.

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8. John Kessell appointed Assistant Editor, New Mexico Historical Review, effective Sept. 1, 1970.

E. Separations from staff

1. Louis C. Tulga resigned to take position as Associate Professor at Indiana State College, Indiana, Pa.
2. W. Warren Wagar resigned to take position as Professor of History at The State University of New York, Binghamton, New York.

F. Promotions

1. Richard Ellis promoted to Associate Professor.
2. Jonathan Porter promoted to Assistant Professor.

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II. Composite of information requested on individual biographical supplements: (period July 1-December 31, 1970)

1. Advanced Study

- a. PORTER, J. Dissertation in progress for University of California at Berkeley: "Tseng Kuo-fan's Private Bureaucracy"
- b. ROBBINS, R. Ph.D. awarded by Columbia University, August, 1970.
- c. STEEN, C. Ph.D. awarded by Univ. of California at Los Angeles, August, 1970.

2. Sabbatical, Summer Teaching, Travel, etc.

- a. CUTTER, D. Research in Museo Naval and Museo de America, Madrid, Spain, July 1970.
- b. DOLKART, R. Summer teaching, Universidad Autonoma, Guadalajara, Mexico
- c. ELLIS, R. Summer research, Washington, D.C.
- d. KERN, R. Taught summer school in UNM program at College of Santa Fe.
- e. LIEUWEN, E. Sabbatical leave, 1970-71.
- f. ROEBUCK, J. Study and travel in England and Europe, Summer 1970.
- g. SKABELUND, D. Sabbatical leave, 1970-71.  
Taught summer school, Utah State Univ.
- h. SPIDLE, J. Research in Germany on a Deutscher Akademischer Austauschdienst (DAAD) West German government grant, Summer 1970.
- i. SULLIVAN, D. Research under Research Allocations Com. grant in Mid-west libraries, Summer 1970.
- j. TJARKS, G. Research at Latin American Collection, Univ. of Texas, Summer 1970.

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- k. TULGA, L. Research at Newberry Library, Chicago, Summer 1970.

3. New scholastic honors, fellowships, etc.

- a. DOLKART, R. Senior Fulbright-Hays Award
- b. ROBBINS, R. Grant from UNM Research Allocations Committee for purchase of microfilms.
- c. ROTHENBERG, G. U.S. representative to International Commission on Military History at the XIIth International Congress of Historical Sciences, Moscow, Aug. 1970.

4. Publications

Books

- a. ELLIS, R. General Pope and U. S. Indian Policy, UNM Press
- b. ROTHENBERG, G. "Die Österreichische Militärgrenze in Kroatien, 1740-1881". Vienna: 1970. Herold Verlag. Pp. 372.

Articles

- a. CUTTER, D. "Harbor Entry and Recognition Signals in Early California" in California Historical Society Quarterly, Vol. XLIX, 1970, pp. 47-54.  
"Cristianos y Moros en EEUUA" in Anuario de Fiestas de San Blas, Alicante, Spain.
- b. ELLIS, R. "Political Pressures and Army Politics on the Northern Plains, 1862-65" in Minnesota History, Vol. 42, 1970, pp. 43-53.
- \* c. ROBBINS, R. Quarterly bibliographies on current Soviet work on Imperial Russian History for Canadian Slavic Studies.
- d. ROTHENBERG, G. "Official Military History in the Hapsburg Monarchy, 1711-1918" in R. Higham, ed. Official Histories (Manhattan: Kansas U. Press, 1970) pp. 48-57.
- \* NASH, G. "Oil in the West," Pacific Historical Review, May, 1970, XXXIX: 193-204.

- e. SKABELUND, D. "Walter of Odington's Mathematical Treatment of the Primary Analities," ISIS, 60 (Fall 1970), 331-350. (with Phillip Thomas)
- f. TJARKS, G. "Momentos criticos en la busqueda del ser nacional en el Rio de la Plata (1810-1880) in Jahrbuch für Geschichte von Staat, Wirtschaft und Gesellschaft Lateinamericas, Köln, vol. 6, pp. 239-256.
- g. WAGAR, W. "The Egg" (poem) in World Union, X (Summer, 1970), 2.

#### Book Reviews

- a. CUTTER, D. Voyages and Adventures of LaPerouse for Pacific Northwest Quarterly.

Geiger, Franciscan Missionaries in Hispanic California, 1769-1848 for Hispanic American Historical Review.

Testimonios Sudcalifornianas for Pacific Historical Review.

Diario de exploraciones en Arizona y California en los anos de 1775 y 1776 for Pacific Historical Review.

Boxer, The Portuguese Seaborne Empire for The Historian.

Geiger, Franciscan Missionaries in Hispanic California for The Americas.

Donahue, After Kino: Jesuit Missions in Northern New Spain for Southwest Historical Quarterly.

- b. DOLKART, R. Potash, Robert A., The Army and Politics in Argentina, 1928-1945 in Hispanic American Historical Review, Vol. L, No. 2.
- c. ELLIS, R. Frink, Fort Defiance and the Navajos in Journal of the West.

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Ellis cont'd      Weslager, Log Cabin in America in Civil War History.

Bearass and Gibson, Fort Smith in Montana.

Karnes, William Gilpin in Rocky Mountain Social Science Journal.

Keleher, Memoirs in Natural Resources Journal.

Abert, Through the Country of the Comanche Indians.... in Mid-America.

Detzler, The Diary of Howard Stillwell Stanfield.... in Indiana Magazine of History.

d. IKLÉ, F. Review in Journal of Asian Studies, Aug. 1970.

e. NASH, G. Book reviews for 11 professional journals.

f. ROTHENBERG, G. G. Ritter, Sword and Scepter. Military Affairs 34 (1970, 105-106.

B. Kiraly, Hungary in the Late Eighteenth Century in The Eighteenth Century, IX (1970), 571-673.

L. Cassels, The Struggle for the Ottoman Empire 1717-1740 in Canadian Journal of History 5 (1970), 106-108.

g. SZASZ, F. Charles Glock and Ellen Siegelman, Prejudice, USA in International Migration Review (Spring, 1970).

h. SULLIVAN, D. K. Dannenfeldt: The Church in the Renaissance & Reformation in Church History.

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5. ResearchA. Completed

1. DABNEY, W. Paper on Thomas Jefferson to be published by Adams State College, Alamosa, Colorado.

2. ELLIS, R. "The Humanitarian Generals" accepted by Western Historical Quarterly.

"Readings in New Mexico History," Book MS for UNM Press.

Five Articles for Encyclopedia of the American West, Thomas Crowell Co.

"Indian Education, 1922: A Collection of Documents" submitted to Prologue: The Journal of the National Archives.

3. KERN, R. Book, "Critics of the Caciques: Spanish Liberalism and the Origins of Civil Strife in Spain, 1833-1923," accepted by UNM Press.

4. LIEUWEN, E. Book (with Nelson Valdés) "Study-Research Guide to the Cuban Revolution"

"History of Venezuela" for Encyclopedia Britannica.

5. NASH, G. "The Great Transition: A Short History of Twentieth Century America" to be published by Allyn and Bacon, 1971

6. ROBBINS, R. "Russia's System of Food Supply Relief on the Eve of the Famine of 1891-92."

"Lenin and the Famine of 1891-92."

7. SULLIVAN, D. "Nicholas of Cusa as 'Angel of Light': A Reform Legation in the Germanies, 1451-52"

"Humanism & Prophecy in the 15th Century: Nicholas of Cusa's 'De Ultimis Diebus'"

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8. SZASZ, F. "Protestantism and the Search for Stability," in Jerry Israel, ed., Building the Organizational Society (to be published by the Free Press spring 1971)
9. TULGA, L. Article, "The Accommodation of Foreign Cults to the City of Rome during the Early Principate: A Comparative Study"
10. WAGAR, W. Revised portions of Good Tidings: The Belief in Progress from Darwin to Marcuse, to be published by Indiana University Press.

#### B. In Progress

1. DOLKART, R. Editing (with R. Kern) volume of articles on "Caciquismo in the Hispanic World"
2. ELLIS, R. Book: "New Mexico: A History of Four Centuries" 2nd ed. for U. of Oklahoma Press (Beck & Ellis)
3. FLOYD, T. Book: "The Founding of Spanish Society in the Caribbean, 1492-1527"
4. IKLÉ, F. Revision of A History of Asia, Bingham, Conroy & Iklé (Allyn & Bacon).  
  
Book: "Essays in Diplomatic History of the Far East"
5. KERN, R. (with R. Dolkart) Book: "Caciquismo and Oligarchy in Luzo-Hispanic Liberalism"  
  
Book: "Readings on the Spanish Civil War"  
  
Book: "Three Anarchists in the Spanish Civil War"
6. LIEUWEN, E. Book: "The Revolutionary Process in Latin America"
7. PUGACH, N. Writing a biography of Paul S. Reinsch.
8. ROBBINS, R. Research on Russian public opinion and the famine of 1891-92; Role of the Russian Provincial Governors in the late



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19th early 20th centuries. Projected work:  
Translation of G. Vernadsky's Ocherk istorii  
prava russkogo gosudarstva.

9. ROEBUCK, J. Final volume in The Development of English  
Society Series.
10. ROTHENBERG, G. Book: "A History of the Army of Francis  
Joseph"  
  
Book: "A Study of European Military Be-  
havior and Institutions"
11. SKABELUND, D. Monograph "The Structure of Theory"
12. SMITH, G. Editing diary of John Langdon Sibley.  
  
Various Civil War articles.
13. STEEN, C. Continuing research on dissertation topic  
and new research on Margaret of Parma,  
the Regent of the Netherlands in the 1560's
14. TJARKS, G. Book: "Land Tenure and Land Reform in Ar-  
gentina (1810-1964)"  
  
A study on 19th century Nationalism in  
Southern South America.  
  
An article on the first independent docu-  
ment of Argentina and its finding by this  
instructor.  
  
Book on the Consulado in Latin America in  
the 18th Century.
15. TULGA, L. Article: "The Problem of Historical Distor-  
tion of the Consulship of 63 BC"  
  
Article: "Leges Sumptuariae and the Preser-  
vation of Roman Character"
16. WAGAR, W. World Integration: Building the City of Man,  
to be published in 1971 by Richard Grossman.

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## 6. Activities in Learned Societies

- a. CUTTER, D. Member, Council of the Archival Advisory Board, Federal Records Center, Region 3, Denver. Attended symposium of same, Laramie, Oct. 31. Attended Western History Association Conference, Reno, October 8-10.
- b. DABNEY, W. Delivered address at annual Jefferson Day banquet at Adams State College, Alamosa, Col. Woodrow Wilson National Foundation, campus representative. Member of the Region XIII selection committee, Woodrow Wilson Foundation.
- c. ELLIS, R. Attended Western History Assoc. meeting; Membership Committee, Western History Assoc.; Membership Committee, Organization of American Historians; Member, Board of Directors, Advisory Comm. on Archival Affairs, Nat'l Archives and Records Service.
- d. FLOYD, T. Attended American Historical Association Convention, Boston, December 1970.
- e. IKLÉ, F. Western Conference of the Association for Asian Studies, Bozeman, Montana, Oct. 15-17, Commentator on "China, Japan and the United States" and Chairman, panel on "Crosscurrents of Foreign Policies in East and Southeast Asia"; American Historical Association meeting, Boston, December, 1970.
- f. LIEUWEN, E. Attended 13th Internat'l Historical Congress, Moscow, Aug. 16-25. Attended American Historical Assn. meeting, Boston, Dec. 1970.
- g. NASH, G. Chairman, Program Committee, Western History Assn., 1970; chairman, Nominating Committee, Organization of American Historians; Program Committee, American Historical Assn, Pacific Coast Branch; attended Western History Assn. meeting, Reno, Nev.; Southern History Assn., Louisville, Ky.
- h. PORTER, J. Paper read: "Specialists and Generalists in the Late Ch'ing" at Western Conference, Assn. for Asian Studies, Bozeman, October '70.

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- i. PUGACH, N. Read papers: "Paul Reinsch and the Modernization of China, 1900-1923" at Convention of Pacific Coast Branch of American Historical Assn., Portland, Oregon, Sept. 1970; "Chinese Impediments to American Economic Expansion, 1913-1920" Western Conference Assn. for Asian Studies, Bozeman, Oct. 1970.
- j. ROTHENBERG, G. Attended XIIth Internat'l Congress of Historical Sciences, Moscow, Aug. 1970; Consultant, The Canada Council.
- k. SULLIVAN, D. Attended American Historical Association meetings, Boston, December, 1970.
- l. TJARKS, G. Paper: "New Lights on the Origins of the Paraguayan War (1864-1865) at Southern Historical Assn., Louisville, Nov. 1970.
- m. TULGA, L. Attended American Historical Assn. meeting, Boston, December, 1970.
- n. WAGAR, W. Attended meetings of History Education Project (American Historical Assn.), Long Beach, Calif., June, 1970. Chaired session and read paper, "Does the A.H.A. Need a Journal for Teachers?" at American Historical Assn. annual meeting in Boston, December 1970.

#### 7. Other Professional Activities

- a. CUTTER, D. Speaker at fall meeting of the New Mexico Council for the Social Studies, Oct. 23.  
Speaker at Minority Group Cultural Awareness Seminar at Holiday Inn, Dec. 28.
- b. FLOYD, F. Guest lecturer, Highlights of Hispanic Civilization, conducted by Professor Rubén Cobos.
- c. LIEUWEN, E. Consultant to Nixon Executive Committee to End the Draft.
- d. NASH, G. Talk, West Mesa High School; Annual UNM Research Lecturer, 1970; Consultant, Univ. of Wisconsin Press, UNM Press.

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- e. ROTHENBERG, G. Talks to Philosophers Anonymous and Congregation Temple Albert.
- f. SKABELUND, D. Addressed USU Faculty Student-Relations Committee; hired back for UNM USP seminar, ESP & Parapsychology, Sem. I.
- g. WAGAR, W. Consultant to American Heritage Publishing Co. for their projected text in world history.

### 8. Non-teaching University Service

- a. CUTTER, D. Guest Speaker in Spanish 296-Highlights of Hispanic Culture, Oct. 5. Served on Fulbright screening committee for UNM applicants.
- b. DABNEY, W. Acting chairman, History Dept., summer 1970; American Studies Committee; faculty advisor, graduate students in U.S. history.
- c. ELLIS, R. Associate Director, American Indian Historical Research Project.
- d. FLOYD, T. Chairman, Graduate Advisory Committee, Department of History.
- e. IKLE, F. Member, Research Policy Committee and Budget Subcommittee of Research Policy Committee.
- f. KERN, R. University Library Committee, Departmental Library Committee, Phi Alpha Theta advisor.
- g. LIEUWEN, E. Director, Ford Foundation Latin American Studies Grant.
- h. NASH, G. History Dept. Graduate Advisory Committee; Dean's Advisory Promotion Committee; Graduate School Fellowship Selection Committee.
- i. PORTER, J. University College Advisor; Undergraduate Seminar Program; Ad Hoc Committee for the Humanities Area.
- j. PUGACH, N. History Department Library Committee; Faculty Adviser to Hillel-Jewish Student Union.

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- k. STEEN, C. University College Advisor; Committee on Entrance and Credits.
- l. SULLIVAN, D. Faculty Advisory Committee, College of Arts & Sciences.
- m. TULGA, L. Faculty advisor for History undergraduates.
- n. WAGAR, W. Member National-International Affairs Committee, Academic Freedom and Tenure Committee, Popejoy Visiting Professor Committee, Arts and Sciences Committee to Evaluate Department Chairmen. Vice-President of Phi Beta Kappa.

#### 9. Public Service

- a. CUTTER, D. Spoke to: Southwestern Literature class at Highland High School; Spanish 4 class at Highland High School; annual luncheon of Rehabilitation Center Auxiliary at Sunport.
- b. DABNEY, W. Lay reader and occasional teacher, Episcopal Church; Member of the Council of the Albuquerque Tutoring Council.
- c. IKLÉ, F. Member, New Mexico American Revolution Bicentenary Commission.
- d. NASH, G. Supplied information for "Action Line" of Albuquerque Journal.
- e. SKABELUND, D. Sunday School teacher, Albuquerque First Ward Mormon Church.
- f. SULLIVAN, D. Lector, Church of the Annunciation.
- g. TULGA, L. Spoke to the Christian Business and Professional Women's Club Annual Banquet, Sept. 1970.

#### 10. Personal information

- a. PUGACH, N. Second child - Laura Ellen - born Nov. 30, 1970.

*The Report of the NEW MEXICO HISTORICAL REVIEW*  
*July 1, 1970 - June 30, 1971*  
*Eleanor B. Adams, Editor*

*Contributors to the NEW MEXICO HISTORICAL REVIEW during 1970-1971 included six professional historians, one geological engineer, and four graduate students in history. The articles, ranging in focus from the early eighteenth century to the present, are the result of basic research on missionaries (Spanish colonial friars and modern Protestants), a Utopian colony in New Mexico, colonial military affairs and Indian wars, early American pioneers, mining, twentieth-century politics, and conservation.*

*The Annual Award for 1970 went to Daniel Tyler, a candidate for the doctorate in history at UNM, who received his Ph.D. in 1971, for "Gringo Views of Governor Manuel Armijo," published in Volume 45, No. 1 (January 1970). The judges were Dr. Donald E. Worcester, Chairman of the Department of History, Texas Christian University, and Dr. Robert W. Larson, Professor of History at the University of Northern Colorado.*

*Miss Katherine McMahon completed the fifteen-year index of Volumes 31-45 (1956-1970) early in 1971. Indexes for Volumes 1-15 (1926-1940) and 15-30 (1941-1955) were published by previous editors. NMHR receives many inquiries about the status of the third one, now due. It is to be hoped that funds to publish it can soon be found; in the long run it should at least pay for itself.*

*Dr. John L. Kessell became half-time Assistant Editor on July 1, 1970. In actual fact Dr. Kessell has put in a*

great deal of extra time without compensation because of the difficulties of adhering to the publication schedule with an inadequate staff. He is highly qualified as an historian, writer, and editor -- a very rare combination. The Editor strongly recommends that a way be found to offer him a regular full-time position for 1972-1973 with academic status and salary commensurate with his training, experience, and ability.

PUBLICATIONS BY STAFF:

Eleanor B. Adams

"Jurisdictional Conflict in the Borderlands" in Richard E. Greenleaf, ed., The Roman Catholic Church in Colonial Latin America, New York: Alfred A. Knopf, 1971, pp. 222-233. (Reprinted from introduction to Bishop Tamarón's Visitation of New Mexico, 1760, Historical Society of New Mexico, Publications in History, Vol. 15, Albuquerque, 1954.)

"Bishop Tamarón's Description of New Mexico," in Wayne Moquin and Charles Van Doren, eds., A Documentary History of the Mexican Americans, New York, Washington, and London: Praeger Publishers, 1971, pp. 80-85. (Reprinted from Bishop Tamarón's Visitation.)

Joint ed. of posthumous publication by Frank D. Reeve, "Navaho Foreign Affairs, 1795-1846," Part I, 1795-1818. NMHR, Vol. 46, No. 2 (April 1971), pp. 101-132.

"The Historical Society of New Mexico Honors France V. Scholes for Outstanding Achievement in Spanish Colonial History, 1970," NMHR, Vol. 45, No. 3 (July 1970), pp. 246-250; reprinted in The Americas, Vol. 27, No. 3 (January 1971), pp. 228-232.

Review of Bernardo García Martínez, El Marquesado del Valle in The American Historical Review, Vol. 75, No. 7 (December 1970), p. 2145.

John L. Kessell

"The Making of a Martyr: The Young Francisco Garcés," NMHR, Vol. 45, No. 3 (July 1970), pp. 181-196.

"Campaigning on the Upper Gila, 1756," NMHR, Vol. 46, No. 2 (April 1971), pp. 133-160.

Joint ed., Reeve, "Navaho Foreign Affairs."

Reviews of John Augustine Donohue, *After Kino*, in NMHR, Vol. 45, No. 3 (July 1970): Maynard Geiger, *Franciscan Missionaries in Hispanic California*, in *The American Historical Review*, Vol. 76, No. 2 (April 1971), p. 541.

Professor Adams was guest speaker in Spanish 296, *Highlights of Hispanic Culture*, in November 1970. She attended the annual meeting of the American Historical Association in Boston, December 28-30, 1970, and the Historical Society of New Mexico's Southwestern History Day, Albuquerque, June 1971. At the Conference on Latin American History luncheon at the Boston meeting it was announced that Richard E. Greenleaf had received Honorable Mention for the Conference on Latin American History Prize for his article, "The Mexican Inquisition and the Masonic Movement, 1751-1820," NMHR, Vol. 44, No. 2 (April 1969), pp. 93-117. This is the second time in three years that an article published in NMHR has received Honorable Mention for this prize.

Dr. Kessell represented NMHR at the annual meeting of the Western History Association at Reno, Nevada, in October 1970. In November he read a paper, "Campaigning on the Upper Gila, 1756," at the Historical Society of New Mexico's Southwestern History Day at Silver City, N. M. In April 1971 he read "A Bid for Sainthood: Fray Juan Gil and the Seris of Sonora" at the Arizona State History Conference, Tucson. He also attended the Historical Society of New Mexico's Southwestern History Day in Albuquerque in June.



*Dr. Kessell has been awarded a \$10,000 contract by the National Park Service for a documentary history of Mission San José de Tumacácori, 1767-1848, to be completed by August 1, 1972.*

Report of the Department of Journalism  
 July 1, 1970 - June 30, 1971  
 Anthony G. Hillerman, Chairman

I. General Departmental Information.

- A. A proposal whereby the department could institute a practical program at the master's level was outlined, submitted to the graduate dean, modified in line with suggestions from this office and subsequently resubmitted. Basically, this program is aimed at preparing journalists to specialize. Candidates would take graduate courses in their area of interest (i.e., biology, urban planning, the medical sciences, political science) and a core of journalism courses designed to improve communication of knowledge in the specialized field. The department felt that such a program, relying heavily on non-journalism academic resources of the university, fits our department's professional approach and our philosophy of interdepartmental and inter-college cooperation.
- B. Enrollment in department courses continued to grow, showing (as of March 31, 1971) a 13.23 per cent climb in student credit hours taught over the same date in 1970.
- C. Continued enrollment increases and the changing nature of the student body prompted general modification of procedures in the department (a tightening of attendance requirements in some courses, increased formality in others, increased efforts to screen out less serious, less able sophomores through advisement, and other means to protect quality in the program). Under consideration is a plan to subject sophomores who have not completed English 102 with a B or better to a battery of composition and literacy tests before admitting them to major courses.
- D. Appointed to the Staff:  
  
 John Hightower, AP Special Correspondent and Chief of the Associated Press State Department Bureau, as Associate Professor effective for academic 1971-72.
- E. No separations.

II.

- A. Professor Crow continues work toward completion of his Ph.D. dissertation. He expects to successfully complete his degree work this summer.
- B. Professor Hunsley traveled in Spain, and some North African countries, last summer and left for Greece in June. He is conducting interviews concerning practical applications of governmental censorship in mass communications.
- C. None
- D. Professor Hillerman published as follows:  
 "The Czech that Bounced," New Mexico Magazine, Winter 70-71.edition.

THE BLESSING WAY, (a novel), Macmillan, Ltd., Oct., 1970, (British Empire edition); Detective Book Club, Nov., 1970; Dell Publications, Inc., March, 1971, (softcover edition). Originally published by Harper & Row, March, 1970.

Professor Hillerman's THE FLY ON THE WALL, 240 pps., a novel, scheduled for publication by Harper & Row for its Autumn, 1971, catalog.

"The Conversion of Cletus Cyprian Xywanda by Professor Hillerman, an essay on the nature of Santa Fe, accepted for publication by New Mexico Magazine.

Professor Crow continued to serve as a consultant for Donrey Media Group. Hillerman wrote legislative persuasion campaign material for consortium of banks opposing proposed branch banking legislation and persuasive material supporting a proposed major expansion of Seadrift, Texas, resin distribution facilities of Union Carbide Corporation. (The legislation was defeated, the expansion was approved.) Hillerman wrote portions of the script of the annual Albuquerque Press Club Gridiron Show. He consulted with Warner Brothers on conversion of novel into screenplay.

E. Members of the faculty attended conventions of the New Mexico Broadcasters Assn., New Mexico Press Association, Albuquerque Advertising Club, and the annual meetings of the Association for Education in Journalism, the American Association of Schools and Departments of Journalism, and the American Newspaper Publishers Association.

F. See E.

G. Professor Crow served on the Curriculum Revision Committee of the College of A&S, and as Chairman of the Student Radio Board; Hillerman served as chairman of the Board of Student Publications, as a member of President Heady's University Advisory Committee, and on Vice-President Smith's Public Relations Advisory Committee. All four faculty members served as student advisors during both fall and spring registration. Professor Jermain served as advisor of student chapters of Sigma Delta Chi and Theta Sigma Phi.

H. Professor Crow was active in Boy Scouts of America programs. Professor Jermain served as judge of writing competitions for Theta Sigma Phi, New Mexico Penwomen. Hillerman spoke to classes at Sandia and Pius X High Schools and at Cleveland Junior High. He also judged the fiction competition of the Panhandle Pen Women and addressed the organization's convention at Amarillo, Texas.

## THE REPORT OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS

JULY 1, 1970 - JUNE 30, 1971

L. H. Koopmans - Chairman

During the academic year 1970-71 the Department provided instruction to 7,294 students totaling 25,495 credit hours. This is an increase of 37 students and 885 credit hours compared to the academic year 1969-70.

## I. GENERAL DEPARTMENTAL INFORMATION.

## A. SIGNIFICANT ACHIEVEMENTS.

Perhaps the most significant achievement of the year was the introduction of a new system of advisement and examination for Master's and Doctoral candidates. An advisor at the Masters level and a Committee on Studies at the Doctoral level will work closely with the graduate students to develop a program to fit his particular interests and needs. The program allows a great deal of flexibility while ensuring a firm base of competence in the 'core areas' of mathematics. A detailed account of this program is given in the 1971-72 Departmental Graduate Student Handbook.

To enhance the 'apprenticeship' aspect of graduate study and to improve the working relationship between graduate assistants and faculty, graduate students were appointed to several departmental committees and were given voting representation in departmental affairs. An informal seminar on teaching mathematics was arranged by the Committee on Teacher Preparation, chaired by R. Metzler, to provide a forum for good teaching for both graduate

students and faculty. Plans are under way to formalize and expand this effort into a seminar that will carry credit and will introduce students to a number of topics of importance in the teaching of mathematics as well as to provide drill in the basic lecture method.

The function of the departmental Executive Committee, consisting of all full professors, was expanded to include an annual review of the faculty in order to gather data for tenure and promotion recommendations. Starting with the recommendations made this year, reference letters from a random sample of a faculty member's students are solicited for the evaluation of his teaching, while his professional and other university activities and contributions are evaluated by qualified individuals both within and outside of the University. Through recommendations based on such solid evidence, the Executive Committee will be able to move toward its goal of developing a faculty of high quality in all areas of University service.

In an effort to bring the faculty and students, both graduate and undergraduate, together on an informal basis. Room 104 Marron Hall has been designated the Mathematics Common Room and the lounge furniture and coffee facilities are now concentrated in this room. Informal discussion ('rap') sessions on a number of topics have been held there as are the coffee hours before the weekly colloquia. This room is open to students and faculty at all times and has proved to be a popular gathering place for both groups. The former coffee room, Marron 225, has been converted into the

departmental computer room. It houses a new Typograph plotting terminal connected by private line with the University's IBM 360/67 computer, an IBM card punch machine and a Facit desk calculator. The terminal, installed in November 1970, has (as of May 1971) already clocked over 370 hours of use.

The departmental program in Computing Science was bolstered significantly by the decision of Dr. Donald Morrison to join the faculty beginning next year. Through a one-fifth appointment with the department over previous years, Don has been instrumental in establishing this program. His appointment as Professor of Mathematics and Director of the Mathematics Department Computing Science Program will provide the administrative and academic leadership needed to develop a first rate program. The departmental computing science faculty and Graduate Committee proposed a program for a Master of Science Degree in Applied Mathematics with Computing Science Option which was approved by the Department by a 32-12 vote. This program is presently undergoing final approval by the Graduate School and Arts and Sciences faculty. This, along with the new advisement procedure for the Ph.D. will make it possible for the department to award both Masters and Doctoral degrees with concentrations in Computing Science.

The Mathematics Education effort, directed by Professor Merle Mitchell, was expanded to include an in-service institute for junior high level mathematics teachers as well as the usual summer institute, both supported by the National Science Foundation. A new appointment in the Department of Secondary Education will still further improve the cooperative effort between that department and the Department of Mathematics.

The research and professional activities of the department continued at a high level despite the increased teaching and administrative loads imposed on the faculty. Several research seminars were held and the following list of mathematicians spoke in the weekly colloquium series: J. R. Blum, UNM, Melvin J. Hinich, Carnegie-Mellon University, I. J. Schoenberg, University of Wisconsin, David Brillinger, University of California - Berkeley, Melvin Janowitz, University of Massachusetts, Victor Goodman, UNM, M. Reichaw, Technion - Israel, Morton E. Harris, University of Illinois - Chicago Circle, Donald L. Burkholder, University of Illinois - Urbana, Bennett Eisenberg, UNM, P. Revesz, Hungarian Academy of Sciences, R. S. Phillips, Stanford University, Frederick Norwood, Sandia Corporation, I. Vincze, Hungarian Academy of Sciences, and Paul Erdős, Hungarian Academy of Sciences. Several members of the faculty reported on their research at meetings of various professional societies, including the Western Regional Meeting of the Institute of Mathematical Statistics for which J. R. Blum was program chairman. Professor Epstein organized and directed an outstanding summer symposium on Reproducing Kernel Hilbert Spaces for the Rocky Mountain Mathematics Consortium.

#### B. STUDENTS, ACHIEVEMENTS, etc.

The department's undergraduate program had an unusually fine year. The Putnam team, coached by Professor A. Hillman with the assistance of R. Grassl, finished fourteenth among 230 teams from the most prestigious universities in the United States and Canada. New Mexico was first on a per capita basis among the states in the

United States and provinces of Canada in the number of students placing in the top 100 and the top 500 contestants of the Putnam competition. A Freshman contest to discover and encourage mathematical talent within the University was held for the third year in October. The fifth annual high school mathematics contest was held in two centers - Albuquerque and Artesia - this year and, because of the large number of participants from the Los Alamos-Santa Fe-Las Vegas area, a third center will be opened in Santa Fe for next year's contest.

Enrollment figures for Graduate 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
1967-68	59	Full time students	27	part time students

1970-71	155	Undergraduate Mathematics Majors
1969-70	110	Undergraduate Mathematics Majors

GRADUATION	1970-71	1969-70	1968-69	1967-68
Ph.D.	7	10	7	6
Masters	18	10	12	15
B.S.	28	22	14	32

C. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

This department will continue its efforts to improve its service to other departments, especially those with emerging needs for mathematics, statistics and computing support. An increasing exchange of students desiring interdisciplinary knowledge will be sought. A much needed restructuring of instructional assignments to decrease class sizes in lower division courses will be studied. As a further means of



achieving excellence in our graduate program an intensive effort will be made to compete for outstanding graduate students. Due to the lateness with which the department was informed of the number of assistantships and fellowships it would have this year several excellent candidates were lost to other universities. This is a serious problem which must be remedied by the Graduate School if we are to recruit good students.

#### D. APPOINTMENTS TO STAFF

In the Fall of 1970 thirteen appointments were made. They were Professors R. Hildner (Adjunct) and W. T. Kyner; Associate Professors R. Cogburn (Visiting), J. Donaldson, E. Gilbert, P. Pathak, A. Stone, J. Ulrich, and W. Zimmer; Assistant Professors J. Ellison, B. Jones, S. Pruess, and H. T. Davis.

At the time of this writing D. Morrison, who had held a 1/5 joint appointment with Sandia Corporation, and R. Cogburn were given permanent appointments. B. Eisenberg and D. Jackson were appointed Visiting Assistant Professors for 1971-72. We have made three one-half time Instructor appointments - D. Phillips, S. Rosencrans and L. Ulrich for the coming academic year.

#### E. SEPARATIONS FROM STAFF

Professor Lawrence F. Shampine has resigned effective June 30, 1971 to return to Sandia Corporation.

## II. INFORMATION FROM BIOGRAPHICAL SUPPLEMENTS.

## 1. ADVANCED STUDY.

None.

## 2. SABBATICALS, LEAVES OF ABSENCE, etc.

James A. Donaldson: Taught in the Department of Mathematics, University of Illinois (Chicago) during summer, 1970.

Reuben Hersh: Visiting Member. Courant Institute, NYU  
Academic year 1970-71.

A. P. Hillman: Taught in a NSF Summer Institute for High School Teachers of Mathematics at Drew University, Madison, N.J.

W. T. Kyner: Staff member of Summer Institute of Dynamical and Astronomy, Univ. of Texas (June). Staff Member, ONR Workshop on Orbital Mechanics, Colby College, Maine (July). Consultant to Nat. Advisory Comm., Computer Oriented Diff. Eqs. Project, NYU (Dec).

C. Qualls: Leave of Absence spent at University of North Carolina, Chapel Hill, N.C.

R. DeMarr: Leave of Absence, Semester I, spent in Russia.

A. Steger: Sabbatical for Semester II.

## 3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, etc.

None.

## 4. PUBLICATIONS.

R. C. Allen: 'A Numerical algorithm suggested by Prob. of transport in Periodic Media: The Matrix Case' w/G. M. Wing, J. of Math. Analysis and Applications.  
'Two-point boundary value problem and generalized trigonometric identities' w/G. M. Wing, TR UNM 202 (1970).

J. R. Blum: 'On fixed precision estimation in time series'. w/J. Rosenblatt, Annals, Math. Stat., 40, 3, 1969.  
'On Orthogonal arrays of odd index' w/Schatz and Seiden, J. of Comb. Th. 9, 3, 1970.  
'Fixed precision estimation in the class of IFR distributions', w/J. Rosenblatt, Annals Stat. Math., 21, 1969.

A. Carasso: 'The abstract backward beam equation'. SIAM Journal Math. Anal. 1970.

H. T. Davis: 'A Test of temporal independence for partially Homogeneous Gaussian Random Fields', Rocky Mountain Journal of Mathematics. 1970.

J. Donaldson: 'A singular abstract Cauchy problem', Proc. of Nat. Aca. of Sciences, USA., Vol 66, No.2, pp269-274, June, 1970  
 'A perturbation series for Cauchy's Problem for higher Order Abstract Parabolic Equations', w/Hersh. Proc. Nat. Acad. of Sciences, USA, Vol 67, No. 1, Sept., 1970.

G. A. Efroymson: 'The cohomology ring of a finite group scheme', Proc. of AMS, Dec. 1970, p. 567-570.  
 'Algebraic theory of real varieties', w/D. Dubois. Taiwan Journal of Mathematics, 1970.

R. Entringer: 'Enumeration of certain Binary matrices', J. Comb. Theory 8(1970), 291-298, w/D. Jackson.  
 'A note on enumeration of permutations of  $(1, \dots, n)$  by number of maxima'. Revista Mathematica Hispana-Americana, 1970.

R. J. Griego: 'Theory of Random Evolutions', w/R. Hersh, Transactions AMS, April, 1971.  
 'Random Evolutions and piecing out of Markov Processes', w/A. Moncayo, Boletin de Soc. Mat. Mex., 1970.  
 'Almost sure convergence of uniform transport processes to Brownian motion' w/D. Heath and A. Moncayo, Annals Math. Stat., to appear.

R. Hersh: 'A perturbation series for Cauchy's Problem for higher order abstract parabolic equations', w/ J. Donaldson. Proc. Nat. Acad. of Sciences, USA, vol. 67, No. 1, Sept. 1970.  
 'Explicit Solution ...' Jnl. Diff. Equations (8) Nov. 1970. p. 570-579.

C. W. Onneweer: 'On uniform convergence for Walsh-Fourier Series', Pac. J. Math. 34 (1970), 117-122.

P. Pathak: 'A note on a characterization of the normal law on Hilbert space', Sankhya. 1970, 32A.

A. Steger: 'Some results on completeness in Commutative Rings', Pac. Jnl. of Math. 1971.

A. Stone: 'Higher order conservation laws. II', Jnl. of Diff. Geometry, vol. 4. (4), 1970, p. 469-476.  
 'Geometry of manifolds which carry a cyclic structure', Proc. of MSU conference on differential geometry, June 1970.  
 'Conservation laws on manifolds', Proc. of regional conference on relativity, U. of Pittsburgh, July, 1970.

G. M. Wing: 'A Numerical algorithm suggested by Prob. of transport in Periodic Media: The Matrix Case' w/R. C. Allen, Jnl. of Math. Analysis and Applications.  
 'Existence and Uniqueness of Solutions of a Class of Non-linear Boundary Value Problems' w/L. F. Shampine, Jnl of Math. and Mechanics, Vol. 19, pp 971-979, (1970)  
 'Two-point boundary value problem and generalized trigonometric identities' w/R. C. Allen) TR 202 (1970), UNM.

W. J. Zimmer: 'Tables of sample sizes in the analysis of variance' Jnl. of Quality Technology, Vol. 2, No. 3, July 1970, p 156-164.

'The role of the prior distribution in Bayesian decision making for the binomial situation' Annals of Assurance Sciences, July 1970 pp 2-12.

' $G_2$ -Minimax estimators in the exponential family', Biometrika 1970, Vol 57, No. 2, pp. 439-443.

5. OTHER RESEARCH PROJECTS IN PROGRESS OR COMPLETED.

J. R. Blum: 'Two Integral inequalities (w/Reichow) to appear Israel Jnl. of Math.

'A note on mixing transformation', to appear in Israel Jnl. of Math.

'Weyl's Theorem and Ergodic Theorem' w/Mizel, submitted.

'Weyl's theorem for operators' w/Mizel, submitted.

A. Carasso: 'The backward beam equation II', submitted for publication.

'Numerical solutions of backward parabolic problems', in preparation.

R. Cogburn: 'The central limit theorem for Markov Processes' submitted to 6th Berkeley Symposium in Math. Stat. and Prob.

H. T. Davis: Research on Adaptive prediction in Time Series Analysis. NSF Grant.

J. A. Donaldson: 'An operational Calculus for a class of abstract operator equations.' Mixed boundary value problems for the nonhomogeneous Euler-Poisson-Darboux Equations.'

G. A. Efroymson: 'A dimension theorem for real primes', w/D. Dubois, submitted for publication.

'Solid k-varieties and Henselian fields', submitted for publication.

R. Entringer: 'Matrices Permutable to \* matrices' submitted.

'Some external properties concerning transitivity in graphs'

'Maximal component complete subgroups'

'Some properties of components of bigraphs'. Accepted for publ.

B. Epstein: Served as Director of Summer Symposium: Reproducing Kernels in Analysis and Probability'. Conducted in Santa Fe June 21 to July 31 under auspices of Rocky Mountain Mathematics Consortium and sponsored by NSF. This was one of about 20 such summer programs in various scientific fields conducted all over U.S. under NSF sponsorship.

Principal investigator of NSF Grant GP 12365.

A. Gibson: 'A discrete Hille-Yosida-Phillips Theorem' UNM TR 209, A study of applications is continuing, supported by NSF Grant GP 12365. Research with J. Donaldson and R. Hersh on the Invariance principle in scattering theory.

L-S. Hahn: 'On the Bloch-Nevanlinna Problem' to be submitted.  
Lecture notes on Complex analysis with B. Epstein, in progress.

R. Hersh: Accepted for publication 'Perturbation and Approximation'  
w/L. Bobisud, Rocky Mtn. Math. Jnl.  
'Random Evolutions, Markov Chains and Systems of PDE' w/M. Pinsky.  
'Fourier Analysis', to be published in Scientific American.

A. P. Hillman: Text: FUNCTIONAL TRIGONOMETRY, 3rd. Ed. to be  
published by Allyn and Bacon, Spring 1971  
Paper: A Symmetric substitute for Stirling numbers, to appear  
in Fibonacci Quarterly.

B. J. Jones: Research in progress: Galois Theory of Local Rings.

L. H. Koopmans: 'Adaptive Prediction for Stationary Processes'  
w/H.T. Davis. Submitted to Sankhya.  
Further work in Adaptive prediction in progress with H. T. Davis.

W. T. Kyner: Research in celestial mechanics at the Univ. of  
Southern Calif. NASA grant (two months.) Began research on  
positone problems arising in the theory of the structure of  
galaxies. (NSF Research Proposal submitted).

J. V. Lewis: Research on: Gravity models in urban planning.  
Estimation of differential equation parameters from solution  
with error.

R. Metzler: UNM TR 199 'Best Possible' results concerning  
Extension of positive linear functions.'

P. Pathak: Work on following articles: Some results on  
measure-invariant sets I. To appear in Ann. Math. Stat.  
Classical sufficiency and its application to sampling.  
Some results on measure-invariant sets-II.  
Darmois-Skitovic theorem and its extensions.

S. Pruess: Paper on estimating the eigenvalues of Sturm-  
Liouville problems.

C. Qualls: Participant in research grant at Dept. of Stat.  
Univ. of N. Carolina, Chapel Hill during 70-71 academic year.  
Project title: 'Stochastic Processes' supported by NSF and  
Office of Naval Research.

A. Stone: NSF Summer contract at Univ. of Illinois, research  
on manifolds.

G. M. Wing: Book on Invariant Imbedding (w/R. Bellman) in  
preparation. Themis, NSF-GP 281-143

W. J. Zimmer: 'Continuous sampling plans for variables based on Cumulative Sums' to be published.  
 'On the Usefulness of the maximum entropy principle in the Bayesian Estimation of reliability' to be published.  
 'Estimators for severity factors in a multiplicative Poisson model'  
 'Graphs Tables and Discussions to aid in the design and evaluation of a sampling procedure based on cumulative sums'.

## 6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

a) Meetings attended: Professional meetings in various cities attended by the following people: R. C. Allen, S. Bell, J. R. Blum, A. Carasso, H. T. Davis, J. Donaldson, R. Entringer, R. Hersh, L. Koopmans, W. T. Kyner, R. Metzler, M. Mitchell, C. Onneweer, P. Pathak, C. Qualls, A. Stone, W. Zimmer.

### b) Offices held:

S. Kao: Vice President Southwestern Section of MAA  
 W. T. Kyner: Treasurer of Southern Calif. Chap. of Soc. of Industrial and Applied Mathematics.  
 W. T. Zimmer: Vice-president local chapter of American Statistical Association.

### c) Papers read, invited addresses, etc.

A. Carasso: Invited speaker Rocky Mountain Mathematics Conference, Buzeman, Montana, June 1970. Gave talk at Los Alamos Scientific Lab. August 1970.  
 R. C. Entringer: Delivered paper and chaired session of Washington D.C. regional AMS Meeting.  
 R. Hersh: Read paper at Soc. Indus. and Appl. Math., Boston, October meeting.  
 L. H. Koopmans: Chaired invited address sessions at joint annual meeting of Ins. of Math. Stat and Summer meeting of AMS, Laramie, Wyo. Member of Visiting Lecturer Committee of Committee of Presidents of Stat. Societies.  
 R. Metzler: Read paper at Rocky Mountain Mathematics Consortium.  
 A. Stone: Invited talks given at following conferences:  
 Conf. on Dif. Geom, Michigan State U., 6/18/70.  
 Conf. on Relativity, U. of Pittsburgh, 7/15/70  
 Gave talk at AMS Meeting, San Antonio, 1/27/70

## 7. OTHER PROFESSIONAL ACTIVITIES.

S. Bell: Spoke at Los Lunas Jr. High and Floyd Schools.

B. Epstein: Referee for Proceedings of American Math. Soc. Transactions of AMS, and J. of Math. Physics. Associate Editor, Rocky Mountain Mathematics Journal. Vice-President of executive board of Rocky Mountain Mathematics Consortium.

R. Griego: Several off-campus talks in relation to Chicano Studies. A TV appearance in regard to Chicano Studies.

R. Hersh: Participated as speaker in Rocky Mtn. Conf. on Functional Analysis, Bozeman, Mont.

A. P. Hillman: Editor, Elementary Problem section, Fibonacci Quarterly.

W. T. Kyner: Consultant to Aerospace Corp., El Segundo, Calif.

M. Mitchell: Served on NSF Panel Evaluating In-Service Institute Proposals, Washington D.C. Dec. 1970.

G. M. Wing: Associate Editor, JNAA. Consultant, LASL.

W. J. Zimmer: Consultant to Sandia Laboratories. Consultant to Reliability Branch, Dept. of Defense, Sandia Base.

## 8. NON-TEACHING UNIVERSITY SERVICE.

During the year most of our faculty served on various Doctoral Committees and were advisors at one level or another. Various members served on the following committees: Master's Oral Committee, Departmental Advisory Committee, Committee on Studies, Dean's Improvement of Instruction Committee, Scholarship Committee, Library Committee, College Enrichment Program Committee, Computing Science Committee, Retirement and Insurance Committee, Graduate Committee, and University Graduate Committee. One member was the Director of Chicano Studies.

## 9. COMMUNITY SERVICE.

Jeffrey R. Davis: Secretary-Treasurer of New Mexico Motorcycle Racing Association.

J. V. Lewis: Chairman: Albuquerque Urban Planning-Urban Form Task Force. Trustee: N.M. Conservation Coordinating Council.

Merle Mitchell: Sponsor of Kappa Mu Epsilon.

C. Qualls: Member and trustee of First Assembly of God  
and Member of New Mexico Citizens for Clean Air and Water.

W. Zimmer: Catholic Peace Fellowship and Chairman of  
Alianza Film Seminar.



The Report of the Department of Modern and Classical Languages

July 1, 1970 - June 30, 1971

William H. Roberts, Chairman

I. General departmental information.

A. Significant achievements.

1. The new general reorganization of the department reported in detail last year, proved to be successfully workable and was therefore continued without change.
  - a. Committee on Promotion and Tenure, recommended for promotion Assistant Professors Murphy and Herron, over the Chairman's protest, and Assistant Professor Cobos and Associate Professor White. Messrs. Cobos and White were promoted, as recommended. Recommended for tenure Assistant Professors Murphy and White.
  - b. Advisory Committee.

The chief function of this committee during the past year was to advise the chairman on various matters relating to the pending modification of the language requirement.
2. New programs.
  - a. The Ph. D. in Romance Languages continued to develop in the direction of French and Portuguese, while the long established Spanish nucleus--which, besides its own distinction, adds lustre to the whole trio of major languages--maintained its B rating, established several years ago in the Cartter Report and maintained in the ACE report on graduate study issued in the spring of '71. Portuguese studies at UNM received national

recognition through the award of a U.S. Office of Education Institute in Portuguese, conducted for six weeks during the past summer. The Portuguese Institute was directed by Professor Jack E. Tomlins, assisted by Assistant Professor Robert D. Herron, and the following teaching staff: Robert Herron, University of New Mexico; Jack E. Tomlins, University of New Mexico; David Fagan, Indiana University, Bloomington; Silvano Santiago, State University of New York, Buffalo.

The Gulbenkian Foundation in Lisbon made a grant of \$10,000 to UNM for retrospective purchase of Portuguese books. Professor Tomlins was able to oversee the spending of this grant during his research leave in Lisbon in the fall. Purchases were concentrated in the medieval period--in which the library collections were least strong--and on back-files of certain key periodicals. As a result the Luso-Brazilian Collections at UNM, already very good, are well on the way to becoming outstanding.

- b. From the modest beginning in the study of Indian languages at UNM, reported last year, has developed a fairly large (40) enrollment in first-year Navajo, and enough student interest to justify continuing the language on the second-year level. Mr. Bills has also offered Quechua to individual students, and the course has now been approved as a regular departmental offering.

The interest in Quechua at UNM is of course enhanced by the student interest in the same at the Centro de Estudios Andinos in Quito; over a period of time these two programs should complement each other very nicely.

- c. The Juan Ramón Jiménez book prize was awarded to the following seniors in recognition of excellence in the Spanish major: Peter Atencio, Donald Banks, David Kirsner, Vivian Rodríguez-Mena, Wilfred Sandoval, Dorothy Thompson, Jose Torres.
- d. The department continued discussion of the language requirement throughout the fall and winter. While the final document submitted by the department to the Arts and Sciences committees working on divisional requirements was not adopted as such, it did show a disposition toward flexibility on the part of the department; and, more important, the preparation of the proposal, with the long attendant discussion, forced every member to rethink the whole matter.

### 3. Cultural activities.

- a. For the special benefit of the graduate students in Spanish and with the support of NDEA Title IV funds, the lecture series "Aspectos de la cultura hispánica", was continued, with the following lectures:
  - (1) Professor Guillermo Ara of the Universidad de Buenos Aires: "Argentina: El hombre de hoy en su letra", October 29, 1970.

- (2) Professor Antonio Ferres, Univ. of Northern Illinois  
"Nuevas tendencias en la narrativa española",  
February 17, 1971.
- (3) Professor Robert Kirsner of the University of  
Florida: "La busca del destino en el teatro español  
de la post-guerra", May 12, 1971.
- (4) Professor Massaud Moisés of the University of São  
Paulo: "O Neo-Realismo em Portugal", December 7, 1970.
- (5) Professor Manuel Zapata Olivella of the University of  
Kansas: "Realidad y fábula en la novela latino-  
americana", April 21, 1971.
- (6) Professor Alexander Parker of the University of  
Texas: "El conflicto entre villanos y nobles en el  
teatro del Siglo de Oro", March 12, 1971.
- (7) Professor Enrique Pupo-Walker of Vanderbilt Univer-  
sity: "Relaciones entre la literatura y el arte  
mural de la Revolución mexicana", May 6, 1971.
- (8) Professor Wilga Rivers of Teachers College Columbia  
University: "New Methodology in Language Teaching",  
September 27, 1970.
- (9) Professor Alfredo A. Roggiano of the University of  
Pittsburg: "Revista Iberoamericana", November 19, 1970.

b. French lectures.

- (1) Professor Jules Brody, of the French Department of  
Queens College of the City University of New York,  
on Descartes' Dream, March 9, 1971.

- (2) Michel Butor, distinguished writer and Professor of French at the Université de Nice, speaking informally on the French educational system, May 1, 1971.
- c. Other programs under departmental auspices.
- (1) "Esta noche teatro", Spanish theatrical troupe, in a program from the theatre of Valle-Inclán, Popejoy Hall, October 25, 1970.
  - (2) A show of painting and sculpture by the young Mexican artist, Enrique C. Altamirano, with an informal lecture on the show, September 18, 1970.
  - (3) An informal conference at the Lawrence Ranch, directed by Professor Ara, around the broad topic of "Latin American Literature and Life", held the week-end of November 20, 1970. Participants were Spanish staff of the department, graduate and undergraduate students.
  - (4) A poetry reading of original Spanish and English verse, with some translation, organized by Professor Brower and Mr. Djelal Kadir, a graduate student in the Ibero-American Language and Area Program. Readers included, besides the organizers, Professors Ulibarri and Roberts. Held in the International Student Center, January 10, 1971.
  - (5) An Argentine dramatic trio, presenting scenes from the modern theatre of Argentina, March 6, 1971.
  - (6) A production of Labiche's "Mon Isménie", directed by Professor Claude-Marie Book in collaboration with the Department of Music, and with roles taken by students in Mrs. Book's seminar, Recital Theatre,

Popejoy, November 13, 1970. Subsequently the production was given at the Universities of Utah and Texas at El Paso, at the request of the French staff of those institutions.

- (7) Readings from Baudelaire and Rimbaud with interpretive slides, performed by students of French, under the direction of the French staff, in the Kiva, December 15, 1970.
- (8) Presentation of "Léo Burckart" of Gérard de Nerval, directed by Professor Claude-Marie Book, and acted by graduate and undergraduate students of French, the Kiva, May 16, 1971.

4. New Joaquín Ortega Hall.

As the building nears completion, a deficit has forced the decision not to furnish the library-lounge and the departmental conference room from public funds, but to attempt to interest Hispanos of the area to contribute for this purpose, as a memorial to Senator Dennis Chávez and perhaps one other prominent New Mexican. To this end the chairman has held meetings with Messrs. Arturo Ortega and Lorenzo Chávez. Committees are in process of being set up, the whole effort to be coordinated through Mr. Lars Halama, UNM Director of Development.

B. Number of majors over the past two years:

1. Undergraduate level

	<u>1969-70</u>	<u>1970-71</u>
Spanish	164	156
Portuguese	3	2
French	50	52
German	21	17
Classics	1	

2. Graduate level

	<u>1969-70</u>	<u>1970-71</u>
Spanish	73	96
French	25	26
Portuguese	4	3

C. Significant plans for the future.

1. An international symposium, sponsored by the department, in honor of the Centenary of Théophile Gautier in 1972. Organized by Professor Claude-Marie Book, one of the outstanding authorities on Gautier in the world, this meeting is in the final planning stages. Application for financial support has been made to the National Foundation for Research in the Humanities, and for appropriate matching funds, to the UNM Development Office. Besides its intrinsic worth and importance, this meeting should provide the sort of wide visibility that a small new graduate program such as French at UNM needs, to help launch it nationally.

D. Appointments to staff.

1. Sam L. Guyler, as Assistant Professor (Spanish), effective Sem. I, 1971-72.

2. Warren Smith, as Assistant Professor (Classics), effective Sem. I, 1971-72.
  3. Byron Lindsey, as Assistant Professor (Russian), effective Sem., I, 1971-72.
  4. Enrique Lafourcade, as Visiting Professor (Spanish), Sem. I, 1971-72.
  5. Angel González, as Visiting Professor (Spanish), Sem. II, 1971-72.
  6. Robert Young, as Visiting Lecturer (Navajo), Sem. I, 1971-72.
- E. Separations from staff.

1. Associate Professor Theodore Sackett, effective August 10, 1971.

II. Composite information on individual biographical supplements.

A. Advanced study.

1. John J. Bergen, Ph.D. completed, UCLA, June, 1971.

B. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

1. Claude-Marie Book. Summer spent in France doing research on Th. Gautier.
2. Truett Book. Mexico, study and travel, summer 1970.
3. Gary Brower. Taught at University of Kansas Summer School, Guadalajara, 1970.
4. Robert Holzapfel. Sabbatical in Europe, Sem. II, 1970-71.
5. Tamara Holzapfel. Sabbatical in Europe, Sem. II, 1970-71.
6. Jack Kolbert. Leave without pay at Pomona College, 1970-71. Teaching, California State at Los Angeles, summer 1971.
7. Donald A. McKenzie. Sabbatical in Germany, collecting inscriptions on houses and barns.



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8. George Peters. Summer teaching, Portland State, 1971.
  9. William H. Roberts. Official visit to the Andean Center, Quito, March, 1971.
- C. New scholastic honors, fellowships, etc.
1. Garland Bills. Faculty grant in aid to work with Bernard Spolsky on NavaJo dialects.
  2. Jack Kolbert. Recipient of special plaque and citation by President of Columbia University, for "distinguished contributions" as an alumnus, August, 1970.
  3. Raymond MacCurdy. Elected Corresponding Member of The Hispanic Society of America.
- D. Publications.
1. Garland D. Bills. An Investigation of the Standard-Nonstandard Dimension of Central Texan English (with Walter Stolz). Austin: University of Texas, Child Development Evaluation and Research Center, 1968. (Part of the Final Report to the Office of Economic Opportunity, Contract No. OEO-4115.)
  2. Gary Brower. "Diles que no me maten, aproximación a su estructura y significado", in *Esfera* (Revista de la Universidad de Guadalajara), Fall, 1970. "Her Voice Mute Green (response to Lorca's 'Casada infiel')", poem in Thunderbird, (UNM literary magazine), Winter, 1970.
  3. Rubén Cobos. A Dictionary of Spanish Proverbs: Spanish Proverbs in the Southwest. Ms. ready for publication.
  4. Robert D. Herron. "An Introduction to the Study of Lima Barreto's Recordações do Escrivão Isaías Caminha as a

Psychological Novel" accepted for publication in the Luso-Brazilian Review (to appear some time in calendar year 1971).

5. Tamara Holzapfel. "Griselda Gámbaro's Theatre of the Absurd," Latin American Theatre Review, Fall, 1970.  
Review on Angela B. Dellepiane, Ernesto Sábato: El hombre y su obra. Revista Iberoamericana, No. 73 (Oct.-Dec. 1970), pp. 674-676. Review on Günther W. Lorenz, Dialog mit Lateinamerika. Panorama einer Literatur der Zukunft. Revista Iberoamericana, No. 73 (Oct.-Dec. 1970), pp. 676-677.
6. Jack Kolbert. "Michel Butor--or a Frenchman Visits New Mexico," American Legion of Honor Magazine, Vol. XLI, No. 3, Fall, 1970, pp. 139-154; "Review of Elie Wiesel," Un Mendiant à Jerusalem, French Review, Oct. 1970, pp. 189-190; "Review of Michel Butor's Les Mots dans la peinture in French Review, Oct. 1970, pp. 205-206; "Review of Vercors' Le Reste est Silence" in Modern Language Journal, pp. 529-530, Nov. 1970.
7. Raymond R. MacCurdy. Edition of Francisco de Rojas Zorrilla, Del rey abajo, ninguno (New York: Prentice-Hall, 1970), 148 pp.
8. Donald A. McKenzie. Dissertation monograph, "Otfried von Weissenburg" (Stanford Cambridge Press, 1945) has been reprinted in hard cover, indicating continuing demand by scholars for this piece of research; translations from Russian: (1) "The Beacons", by Korolyenko, Prairie Schooner, Summer, pp. 141-142, (2) "Our Window Looks Out Upon White

Trees," by Yevtushenko, Contemporary Literature in Translation, Summer, pp. 24-25.

9. George Peters. Some Problems in Translating the Modals, Die Unterrichtspraxis, Spring, 1970, Vol. III, No. 1, pp. 89-93.
  10. William H. Roberts. Article, "El Rey Sebastián en Antónío Nobre", Archivum (Oviedo), Vol. XVIII, pp. 377-384.
  11. Theodore A. Sackett. "Arrabal and Spanish Theatre in Ecuador," Cuadernos del Guayas (Guayaquil, Ecuador), July 1970, 2 pp.; "The Meaning of 'Miau'", Anales Galdosianos, año IV, 14 pp.; "The Teaching of Culture in Foreign Languages Classes: A Practical Approach," Bulletin, RM-MLA, Dec. 1970, 5 pp.; Note on "La Generación del 30 en el Ecuador," Hispania, 53 (Dec. 1970), 2 pp.; in final manuscript form, 1000 pp. typescript of book, El arte de la novela de Jorge Icaza, expected to be submitted for publication March, 1971 to appear in Latin American Theatre Review, "Huasipungo drama" 4 pp.; two research projects nearing completion on novels by Pérez Galdós and Blasco Ibáñez.
  12. Jack E. Tomlins. The Modernist Idea: A Critical Survey of Brazilian Writing in the Twentieth Century. Translation of Wilson Martins, Modernismo. NYU Press, 1971. 336 pp.
  13. Sabine R. Ulibarri. Tierra Amarilla (Tales of New Mexico). UNM Press, 1971; No Fire for the Forge, San Marcos Press, 1971.
- E. Other research projects or creative work in progress or completed during period.

1. Garland D. Bills. Pilot study of Navajo dialects. With Bernard Spolsky. Faculty grant-in-aid in support of research. In progress. Revision and testing of a Spanish placement test for native speakers of New Mexican Spanish.
2. Claude-Marie Book. Third volume of Th. Gautier, témoin de son temps completed.
3. Gary Brower. A book of poems and two articles completed (without funding) during this period.
4. Rubén Cobos. Prepared new course for Area Center entitled Highlights of Hispanic Culture (now being offered).
5. Pelayo H. Fernández. In progress: book on Ramón Pérez de Ayala.
6. Robert D. Herron. In progress: translation and modification of doctoral dissertation for publication in Brazil. Article on Brazilian novelist Aufrán Dourado. Article on Brazilian novelist Machado de Assis.
7. Jack Kolbert. Project completed: to be published in Romance Languages Quarterly, Spring 1971, entitled "Michel Butor's Literary Criticism of Optics and Geometry." Project in progress: "The Worlds of André Maurois", expected completion 1971.
8. Enrique Lamadrid. Still working on Spanish for Communication, two series of texts for the teaching of Spanish from the elementary grades through high school. To be published by Houghton Mifflin Company in the fall of 1971.
9. Raymond R. MacCurdy. Completed final proofreading of a book to be released in February by Appleton-Century-Crofts:

Spanish Drama of the Golden Age: Twelve Plays; three articles accepted for publication.

10. Donald A. McKenzie. Three-page article, Um "X"Uhr, still held by RMMLA Bulletin. In June, July, and August was finishing work of sabbatical, drove 8000 miles on the country roads of West Germany collecting barn and house inscriptions. Some 800 inscriptions were collected, as well as many photographs taken. Inscriptions are now being processed to serve as material for publication.
11. William H. Roberts. Continued research on King Sebastian and his reflection in Portuguese letters.
12. Jack E. Tomlins. Translation of Dalton Trevisan's story O Corpo na Sala (The Corpse in the Parlor) to appear in Spring edition of Mundus Artium, number devoted to contemporary Latin American prose fiction.
13. Rosemarie Welsh. "The Nature of the Metaphor in the Lyrics of G. Benn.", M.A. thesis.

F. Activities in learned and professional societies.

1. Garland D. Bills. Attended IX Conference on American Indian Languages, American Anthropological Association annual meeting, San Diego, Nov. 19-22, 1970. Attended Linguistic Society of America annual meeting, Washington, D. C., Dec. 28-30, 1970, and read paper entitled "The Quechua directional verbal suffix".
2. Truett Book. Regional Director, Rocky Mountain Area Phi Sigma Iota, National Romance Language Honorary.
3. Rubén Cobos. Advisory Board National Folk Festival.

4. Alice V. Gilbert. Internationale Germanisten Konferenz, Princeton, New Jersey. President of New Mexico Chapter of AATG (American Association of German Teachers).
5. Robert D. Herron. Attended meeting of Midwest Modern Language Association in Milwaukee, Wisconsin at end of October, 1970 (two days).
6. Tamara Holzapfel. Nov. 1970, attended meeting-MMLA-at Wisconsin. Discussant of Manuel Puig's "La traición de Rita Hayworth", Spanish American Literature Section, MMLA.
7. Robert C. Jespersen. MLA, New York: Participation in Seminar on Exile Literature.
8. Jack Kolbert. National executive commission of the American Association of Teachers of French (AATF). Presided over the national meetings modern French literature section, Dec. 26-29, New Orleans, La.; presided over RMMLA French Literature Section, Oct. 1970, Sun Valley, Idaho; addressed Oklahoma Foreign Language Association, Oklahoma City, Oct. 1970.
9. Enrique Lamadrid. Attended ACTFL meetings and special Symposium on Training of Foreign Language Teachers, in Los Angeles, Nov. 23-28, 1970.
10. Raymond R. MacCurdy. Read a paper at the annual meeting of the American Association of Teachers of Spanish and Portuguese, San Francisco, Dec., 1970: "Social Concern and the comedia de privanza". Member of the Executive Council of the Rocky Mountain MLA.

11. Patricia Murphy. Discussion Leader, Workshop No. 6  
Modern Language Association Annual Meeting, NYC.
  12. George Peters. Vice-President-Secretary, New Mexico  
chapter, American Association of Teachers of German.  
Informal presentation at Fall AATG meeting, New Mexico  
chapter: The German Student Movement.
  13. William H. Roberts. Chairman, Spanish II Section, South  
Atlantic MLA meeting, Washington, D. C., Nov. 1970.  
Chairman, Executive Committee for Portuguese MLA. Member  
Portuguese Research Committee MLA.
  14. Sabine R. Ulibarri. Member Executive Council AATSP.
- G. Other professional activities.
1. Claude-Marie Book. Experimental theater course: dramatic  
production of the Labiche play: Mon Isménie (Nov. 13).  
TV appearance of the same play with interview on Channel 5,  
Dec. 22, replayed Feb. 22, 23.
  2. Truett Book. "Bateau Ivre", Sons et lumières, Dec. 1970  
for Alliance Française and French students, UNM.
  3. Gary Brower. "La poesía norteamericana e hispanoamericana  
contemporánea: Una comparación", speech delivered at Latin  
American Weekend Conference last fall at D. H. Lawrence  
Ranch, sponsored by Department of Modern and Classical  
Languages and Center of Latin American Studies.
  4. Rubén Cobos. Elected member of San Felipe School Board.
  5. Pelayo H. Fernández. Co-organizer of the Oviedo Summer  
Session; Half-hour TV appearance on the Oviedo Program  
(Dec. 2, 1970).

6. Alice V. Gilbert. Served on Selection Committee for Fulbright-Hayes Scholars for Austria, Switzerland and the Eastern European countries.
  7. Jack Kolbert. Addressed the University Club of Southern California, Los Angeles, on "The National Assault against Foreign Languages," Dec. 6, 1970. Visiting Professor of French literature and directed Graduate Program at California State College, Los Angeles, Summer 1970; also at Pomona College and Claremont College, 1970-71.
  8. Enrique Lamadrid. Consultant to Educational Testing Service, Princeton, N. J., on preparation of tests for Undergraduate Spanish Program.
  9. Raymond R. MacCurdy. Consultant for the National Foundation for the Humanities (met in Berkeley, Calif., Dec. 1970). Reader-consultant for the University of Missouri Press.
  10. León Márquez. Consultancies: three days, U. S. Department of Agriculture (Forest Service); one day, Cultural Awareness Program, UNM.
  11. Sabine R. Ulibarrí. Lectures: Santa Fe, Silver City, Las Vegas, Austin, El Paso, San Diego, Denver, Salt Lake City, Albuquerque.
- H. Non-teaching University service.
1. John J. Bergen. Chairman of intermediate Spanish courses; advisor for MATS degree candidates; member of Sub-committee I, A and S Faculty Advisory Council; member of the departmental committee for the study of the A and S foreign language requirement.



2. Garland D. Bills. University College advisor. Member, Coordinating Committee, Program in Linguistics and Language Pedagogy.
3. Claude-Marie Book. Main Library Committee, Departmental Library Committee. faculty advisor.
4. Truett Book. Advisor Undergraduate French, UNM; Advisor UNM Chapter Phi Sigma Iota; President Alliance Française, UNM and Albuquerque.
5. Gary Brower. Limited committee work.
6. Rubén Cobos. University College advisor.
7. Pelayo H. Fernández. Director of Lecture Series "Aspectos de la cultura hispánica"; Non-degree advisor; Committees on Studies (5); Advisory Committee: Doctoral dissertations (1).
8. Alice V. Gilbert. Faculty advisor, University College.
9. Robert D. Herron. In charge of Portuguese program and advisor to all Portuguese (major and minor graduate and undergraduate) students, Sem. I, 1970-71; Departmental committee which has been studying language requirement, Sem. I, 1970-71; in charge of first-year intensive Portuguese course, Summer NDEA Institute, 1970.
10. Robert Holzapfel. Chairman of Building Committee for New Ortega Hall.
11. Tamara Holzapfel. Graduate advisor; Committee on Studies.
12. Robert C. Jespersen. Conference on Evaluation of Teaching; WICHE workshop on Credit by Exam; NMSU Conference on Improvement of Teaching; A and S Student Advisory Board; Various departmental committees.
13. Jack Kolbert. On a number of Pomona College and Claremont College committees and chairman of one.

14. Enrique Lamadrid. Registration Committee; Fall Workshop for graduate and teaching assistants; in charge of training and supervision of teaching fellows; Director of lower division courses.
  15. Raymond R. MacCurdy. Member of the University Publications Committee and the Committee on Academic Freedom and Tenure; Graduate advisor in the department.
  16. Patricia Murphy. Committees: University Graduate; A and S Evaluation of Chairmen; Department advisor; University College advisor.
  17. George Peters. Registration Committee.
  18. William H. Roberts. Department advisor to new graduate students.
  19. Theodore A. Sackett. Faculty advisor to undergraduate Spanish majors.
  20. Jack E. Tomlins. Advisor to undergraduate and graduate students in Portuguese.
  21. Sabine R. Ulibarri. Spanish major advisor; Student Aids Committee.
  22. Rosemarie Welsh. University College advisor.
  23. Julian E. White, Jr. Chairman, Committee for Selection of Annual Research Lecturer; Departmental Committee on Promotion and Tenure; Departmental Advisory Committee.
- I. Public Service.
1. Claude-Marie Book. French for Children sponsor.
  2. Truett Book. Democratic precinct committeeman.
  3. Rubén Cobos. Translator, Spanish mass service, Queen of Heaven Parish.

4. Robert C. Jespersen. New Mexico Association for Children with Learning Disabilities, Board of Directors.
5. Jack Kolbert. Was Visiting Professor of French literature and directed Graduate Program at California State College, Los Angeles, Summer 1970; also at Pomona College and Claremont College, 1970-71.

The Report of the Department of Philosophy  
July 1, 1970 - June 30, 1971  
Paul F. Schmidt, Chairman

I. General Departmental Information

A. Significant Achievements.

What may not appear as a significant achievement in the news but, in fact, is such consists in the steady growth of the department at all levels unhampered by any crises among students or staff. We are working together and education goes forward.

By June or August, 1971, we shall graduate two doctoral students. During 1970-71, four were writing dissertations. Graduates have encountered a very bad job market but we are still hopeful that all will find jobs. Tom King has accepted a position as Assistant Professor at the University of Texas at Arlington, 1971-72.

New incoming graduate students are tending to come with their M.A. degrees hence this year's group of M.A. in our department is less.

No changes were made in any of our programs but we plan to reconsider some phases in 1971-72.

Professor Charlene McDermott was awarded a Fellowship Grant from the National Endowment for the Humanities for 1971-72, for research in Tibetan-Buddhist Logic, the

only grant awarded in the State of New Mexico.

Professor Wayne McEvilly from Montana State University will be visiting Professor replacing Professor McDermott. He is a UNM graduate with a B.A. in philosophy in 1960.

Professor Melbourne Evans was on sabbatical leave for the second semester 1970-71 continuing his research in Symbolic Logic.

The department has continued its practice of holding departmental meetings which include both faculty along with TA and GA., organized in a 'quaker' meeting style continuing discussion of topics until reasonable consensus emerges. Such meetings have helped morale between graduate students and faculty. Further, in our search and evaluation of two new additions to the faculty we have created a committee of three graduate students, one for each appointment, to read all credentials, join faculty discussion with one vote in the selection. These two practices have created integration and rapport, giving a needed role to student participation.

Significant additions of books and journals were made to the Philosophy Department Library. This Library, created in 1966, functions like a laboratory of science, central to our studies.

During the year Philosophy Club met regularly with papers given alternately by staff and graduate students.

Responsibility for the program is one of the activities of Phi Sigma Tau, National Philosophy Honorary. New members joining Phi Sigma Tau for 1970-71 numbered 7.

The annual meeting of the New Mexico-West Texas Philosophical Society was held in Albuquerque on April 24-25, 1971.

B. Numbers of Students.

In both semesters of 1970-71, enrollments of students in philosophy courses increased 40-45% over the corresponding semester of the previous year. Such increases for two years running clearly warranted additional staff. Two additions were appointed. Some students continue to transfer to the Bachelor of University Studies Program, and I encourage them to do so, when such individual designs of programs meet their special needs. Statistics: Majors 28, Minors 17, English-philosophy 30, Economics-philosophy 6, Graduate Students 26, and American Studies with concentration in philosophy 3.

C. Significant Plans.

No major changes in our programs are under discussion at this time. We believe that the changes made several years ago need further use before there is sufficient evidence to conduct a re-evaluation. We do plan to discuss

some minor alterations in courses for 1971-72.

D. New Appointments to the Staff.

Russell Goodman was appointed Assistant Professor effective July 1, 1971. He holds an A.B. from the University of Pennsylvania, B.A. Honors from Oxford University and is completing his Ph.D. at Johns Hopkins University.

Fred Schueler was appointed Assistant Professor effective July 1, 1971. He holds an A.B. from Stanford University and is completing his Ph.D. at the University of California at Berkeley.

Wayne McEvilly was appointed Visiting Associate Professor effective July 1, 1971, to replace Professor Charlene McDermott. He graduated with a philosophy major from the University of New Mexico in 1960, and holds a Ph.D. from the University of Southern California in 1963 with 7 years teaching experience, most recently at Montana State University.

E. Separations from the Staff

None

II. Composite of Information from Individual Biographical Supplements.

1. Advanced Study.

None

2. Sabbaticals, Leaves, Travel, etc.

Professor Melbourne Evans on sabbatical, Sem. II  
1970-71.

Professor Charlene McDermott, on leave without pay,  
1971-72

3. New Scholastic Honors, Fellowships, etc.

Bahm: Who's Who in American, 37th Edition;  
collaborator in preparing a Handbook of  
Fundamental Terms of Indian Tradition;  
Advisor Board of The Phoenix Institute.

McDermott: Professor Charlene McDermott was awarded  
a National Endowment for the Humanities  
Fellowship for 1971-72 and LWOP from UNM.

Schmidt: Who's Who in America, 37th Edition.

4. Publications.

Bahm: BHAGAVAD GITA: THE WISDOM OF KRISHNA,  
Somaiya Publications Pvt. Ltd., Bombay,  
(September) 1970, Pp. 179 + 7. A trans-  
lation from Sanskrit, with an introduction  
extensive comments, and appendices.

"How Values Interdepend," HUMAN VALUES AND  
NATURAL SCIENCE, Proceedings of the Third  
conference on Value Theory, ed. by Erwin  
Laszlo and James B. Wilbur, Gordon and Beach  
Science Publishers, N. Y., (July) 1970.  
Pp. 237-243.

"How Can Buddhism Become a Universal Religion?"  
THE EASTERN BUDDHIST, Vol. III, No. 1  
June, 1970, pp. 147-149. Invited article.

"The American Cultural Predicament Today,"  
THE JOURNAL OF THOUGHT, Vol. 5, No. 4,  
Oct., 1970, pp. 214-230.

"Argument Against the Review," THE STUDIES  
AND ESSAYS OF HIROSHIMA SHOKA DAIGAKU, Vol. X,  
No. 1, Oct. 1969, pp. 315-316. Comments on  
review (in Japanese) of THE WORLD'S LIVING  
RELIGIONS BY Masahiro Oka, in the same journal,  
pp. 313-314.



McDermott: "Empty Subject Terms in Late Buddhist Logic," Journal of Indian Philosophy, Vol. 1, #1, pp. 23-30.

5. Other Research Projects, in Progress or Completed.

Alexander: Revision of Language and Thinking for second edition.

Bahm: THE HEART OF CONFUCIUS, Harper and Row, N.Y. scheduled for republication as a paperback in March, 1971. Pp. 160. Previously published by John Weatherhill, Tokyo, and Walker and Co., N. Y. as a hardback.

THE WORLD'S LIVING RELIGIONS, Southern Illinois University Press, Carbondale, scheduled for publication in the Fall, 1971. Pp. 384.

"Is a Universal Science of Aesthetics Possible?" JOURNAL OF AESTHETICS AND ART CRITICISM. Accepted for publication.

"A Multiple-Aspect Theory of Time," THE SOUTHWESTERN JOURNAL OF PHILOSOPHY Accepted for publication.

"Philosophy Today," Part II, PORTAL, JOURNAL OF INTERDISCIPLINARY THOUGHT, Vol. VIII, 1970, Fall. Scheduled for publication.

"Cosmic Humanism versus Organicism," an invited review of Oliver Reiser's COSMIC HUMANISM. Accepted for publication in THE PHILOSOPHY FORUM.

Of "organicism, The Philosophy of Interdependence," for THE PHILOSOPHER'S INDEX. Submitted as requested.

Of "The American Cultural Predicament Today." for THE PHILOSOPHER'S INDEX. Submitted as requested.

THE WORLD'S LIVING RELIGIONS, Recording for the Blind, N. Y., 1970. Republication on magnetic tape for free distribution to blind persons.

EXECUTIVE YOGA, Paperback Library, N. Y. (May) 1970, Pp. 352. Republication as paperback under new title of YOGA FOR BUSINESS EXECUTIVES.

"Peace Through Interreligious Ecumenism," DEMOCRACY AND WORLD PEACE, scheduled for publication in December, 1969. Copies not yet received.

Chapter in a book: "How We and I Creatively Enhance Each Other," invited chapter accepted for publication in a book on "the total complexity of creative interchange," to be published by (or publication will be sponsored by) the Center for Creative Interchange, Des Moines.

SELF, SOCIETY, AND SATISFACTION. Submitted to publishers.

ETHICS AS A BEHAVIORAL SCIENCE. Submitted to publishers.

INTERDEPENDENCE. A proposed cooperative volume by UNM professors representing different fields. All of the proposed sixteen chapters have been completed. Editorial criticisms have been prepared. Revised chapters have been received from about half of the contributors.

Books: translations - PHILOSOPHY, AN INTRODUCTION, Vol. II, Bureau of Tamil Publications, Madras. Scheduled for publication in April, 1968. Copy not yet received.

THE WORLD'S LIVING RELIGIONS, translated into Japanese By Ryoza Kuwahara, Osaka, completed in second and final draft. Submitted to Japanese publishers in October, 1970.

PHILOSOPHY, AN INTRODUCTION, Sinha Publishing Co., Calcutta. Bengali translation partly completed. Hindi translation reported completed.

Articles: "Stages in the Development of Interreligious Attitudes," submitted to publishers.

"The Organicist Theory of Truth."

"Our Unfinished Revolutions."

"The Crisis in Western Religions."

"Universals."

"Is 'World Law' Enough for World Peace?"

Evans: Further research in decision procedures for class logic; Chapter contributed for a book on Special Relativity.

McDermott: Translation of Rgyal-tshab's commentary on Dharmakirti's Nyayabindu (plus my own explanatory preface) - in progress.

Translation into English of G. Tucci's Storia deller filosofia indiana - in progress.

Article for the Richard Robinson Memorial volume - in progress.

"Notes on the Assertoric and Modal Propositional Logic of the Pseudo-Scotus," to appear in a forthcoming issue of the Journal of the History of Philosophy.

"Asanga's Defense of alayavijnana," to appear in a forthcoming issue of the Journal of Indian Philosophy.

O'Neil: Book on Cartesian Epistemology in Progress

Schmidt: Rebelling, Loving and Liberation: A Metaphysics of the Concrete, (Hummingbird Press, March 1971) Pp. 200.

Tuttle: Readings in 20th Century Political Philosophy  
The Idea of Subjectivity in Recent German Philosophy.

#### 6. Activities in Learned and Professional Societies.

Alexander: Paper read at Southwestern Philosophical Society Meeting November, 1970, on "Aristotle's Logic and Transformational Grammar: to be published in The Southwestern Journal of Philosophy.

Continuing as Secretary-Treasurer of New Mexico and West Texas Philosophy Society.

Bahm: Continuing as Secretary for Asian Affairs of the American Philosophical Association Committee on International Cooperation. Arranging for free subscriptions to American philosophical journals for Asian University libraries under an Asia Foundation grant.

Meetings attended and paper presented: Attended the 32nd Annual Meeting of the Southwestern Philosophical Society at the University of Texas, Arlington, November 19-21, 1970. Presented a paper, "A Multiple-Aspect Theory of Time."

New Memberships: Became a founding member of the new Society for Value Inquiry, 1970.

McDermott: Paper read at Symposium on Tibetan Buddhism, Brock University, Oct. 1970.  
"A Tibetan Conception of Existence."

Paper read at AOS meetings, Harvard, April, 1971 - "Of Catless Grins and Sundry Related Matters."

O'Neil Visited and consulted with Staff and participants at National Philosophic Conference in Colorado, July 1970.

Schmidt: Southwestern Philosophy Society, Dallas, Texas, November, 1970.

#### 7. Other Professional Activities.

Alexander: Inaugurated a TV series over KNME "This is Your University" consisting of interviews with University faculty and staff members on activities which are going on at the University and which are of service to the community. This is in the interest of improving the general image of the University to the public at large.

Continuing as member of National Executive Council of Phi Sigma Tau (Philos. Honorary)

Bahm: American Association of University Women lecture, Oct. 14, 1970, on "Asian versus Western Philosophies." Albuquerque, N. M.

Manzano High School (combined with Sandia High School) humanities classes, December 7, 1970, on "Eastern and Western Ideals, A Comparison."

McDermott: Talk on Buddhism at Free University, May, 1971.

8. Non-Teaching University Service.

Alexander: Chairman, Curricula Committee.  
Chairman, Promotion Advisory Committee  
in Humanities, College of Arts and Sciences  
Faculty sponsor for Phi Sigma Tau (Philos.  
Honorary Society)

O'Neil: Vice Chairman, Campus Safety Committee;  
University College Advisor.

Schmidt: Chairman, Department of Philosophy,  
American Studies Committee  
AAUP Executive Committee

Tuttle: Advisor, University College  
Honors Council  
Dean's Advisory Council

9. Public Service.

McDermott: Zero Population Growth.

The Report of the Department  
of Physics and Astronomy

July 1, 1970 - June 30, 1971

Victor H. Regener, Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year 1970-71

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, and the number of degrees granted. Campus faculty of this department contributed to the teaching at the Los Alamos Graduate Center, with two faculty members commuting in Semester I, and two in Semester II.

Student Credit Hours, Physics and Astronomy

(Average, Semester I-II)

	<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>	<u>1970-71</u>
	4,046	4,378	4,419	4,747
Increase	8.2%	1%	7.4%	

## Number of Graduate Students Enrolled

(Semester I figures)

<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>	<u>1970-71</u>
68	75	70	78

## Number of Degrees Granted

	<u>June 1968</u>	<u>June 1969</u>	<u>June 1970</u>	<u>June 1971</u>
B.S.	10	19	14	8
M.S.	6	12	9	11
Ph.D.	8	2	2	4

The heavy involvement of the department in research is shown in the following table for 1967-68 through 1970-71. Starred figures for 1970-71 include extrapolations for the last few months, for which final data are not yet available.

	<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>	<u>1970-71</u>
(1) Departmental budget, original figures	\$263,400	\$280,000	\$305,367	\$335,170
(2) Departmental budget, actual expenditures	267,000	280,000	305,367	335,170*
(3) Sponsored research expenditures	669,133	563,036	396,301	322,000*
(4) Overhead to University from grants and contracts	113,603	99,108	75,676	67,000*
(5) Money for grants and contracts received during the year from outside sources	536,855	365,300	456,245	349,777
(6) Active grants and contracts at end of year	1,849,017	2,020,621	1,979,581	2,221,218

2. Reorganization of course offerings

Courses at all levels were scrutinized in the fall of 1970. Two new courses were added:

Physics 403      Acoustics

Physics 436, also known as      Atmospheric Physics  
Astronomy 436

Physics 541 (Theoretical Nuclear Physics) was deleted, and Physics 542 was re-structured.

B. Significant Plans and Recommendations for the Near Future

Our most urgent need for our physical plant, a building for physics instruction, is being met by a new building east of Farris Engineering Center.

C. Appointments to Staff for 1970-71

Colston Chandler, Assistant Professor

Byron Dieterle, Assistant Professor

D. Separations from Staff at the end of 1970-71

Philip Cooper, Lecturer

E. Sabbaticals during 1970-71

John Howarth, Professor, Semesters I and II



II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study

Seymour S. Alpert

Summer Institute for Professors of Electrical Engineering. Worcester Polytech Institute; June 1970-August 1970; Solid State and Quantum Mechanics.

Colston Chandler

Post-doctoral study: Institute for Theoretical Physics, Swiss Federal Institute of Technology, Zürich, Switzerland (1968 to August 1970).

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

Harjit S. Ahluwalia

Traveled to Boulder, Colorado in June to participate in the one-hundred-thirty-second meeting of the American Astronomical Society.

Seymour S. Alpert

AWU-funded exploratory consultation; Lawrence Radiation Laboratory, Livermore, California - December 16-20, 1970.

Charles L. Beckel

Summer 1970 spent vacationing in England. Visited University of Sussex, London University and Oxford University during part of the time.

Howard C. Bryant

Two month Visiting Scientist appointment at Stanford Linear Accelerator Center, Stanford University, 15 June - 15 August 1970. Traveled to Stanford in late October for 4 days to participate in research.

Colston Chandler

European travel (August 1970).

James D. Finley, III

Attended NATO Advanced Study Institute on Mathematical Physics in Istanbul, Turkey - August 10-21, 1970 and Fifth Texas Symposium on Relativistic Astrophysics, Austin, Texas, December 14-18, 1970.

John L. Howarth

Sabbatical Leave - Visiting Professor, Department of Anatomy, The Medical School, University of Bristol, England.

David S. King

Traveled to International Astronomical Union Meeting at Brighton, England, August 1970. Presented paper at symposium at the State University of New York at Stony Brook, New York, December 3-4, 1970.

Alan W. Peterson

Traveled to Haleakala Observatory in Hawaii, December 17, 1970 to January 4, 1971 for infrared measurements of sky brightness near the sun and infrared measurements of zodiacal light, sponsored by NASA.

Victor H. Regener

Sabbatical leave for Semester II, 1969/70, at 2/3 pay (1/3 pay from research contract).

Derek B. Swinson

Traveled to La Paz, Bolivia to service cosmic ray telescope and attend Sixth Interamerican Seminar on Cosmic Rays. Traveled to Canada.

3. New scholastic honors, fellowships, etc.

4. Publications

Harjit S. Ahluwalia

"The Coupling Functions Applicable to the Underground Meson Telescopes," J. Geophys. Res. (in press).

"The Energetic Storm Particle Event of June 9, 1968," Bull. Am. Astron. Soc. (in press).

"Observation of the Sidereal Variation in Cosmic Ray Intensity with the Underground Meson Telescopes," Bull. Am. Astron. Soc. (in press).

Seymour S. Alpert

"A Simple Explanation of the Depth of Field Properties of an Ideal Lens," Amer. J. Phys. 38, 1355 (1970).

"Temperature Dependence of the Ultrasonic Velocity in Cyclohexane," J. Acoust. Soc. Amer. 48, 1287 (1970).

Charles L. Beckel

"Nonuniqueness of the Energy Correction in Application of the WKB Approximation to Radial Problems," J. Math. Phys. 11, 1991 (1970).

"Theoretical Study of  $H_2^+$  Ground Electronic State Spectroscopic Properties," J. Chem. Phys. 53, 3681 (1970).

"Factors Pertinent to Water Quality in the Albuquerque Metropolitan Area," (Editor) Albuquerque Urban Observatory, November 1970.

Howard C. Bryant

"Experimental Determination of the Inelastic Neutron Form Factor by Scattering of 12 GeV Muons on Hydrogen, Carbon and Copper," Phys. Rev. Letts. 26, 34 (1971).  
Co-authors: W. L. Lakin, T. J. Braunstein, J. Cox, B. D. Dieterle, M. L. Perl, W. T. Toner, T. F. Zipf.

Colston Chandler

"Causality in S-Matrix Theory," Phys. Rev. 174, 1749 (1968).

"Macroscopic Causality Conditions and Properties of Scattering Amplitudes," J. Math. Phys. 10, 826 (1969).  
Co-author: H. P. Stapp.

"Some Physical Region Mass Shell Properties of Renormalized Feynman Integrals," Commun. Math. Phys. 19, 169 (1970).

Byron D. Dieterle

"Experimental Determination of the Inelastic Neutron Form Factor by Scattering of 12 GeV Muons on Hydrogen, Carbon and Copper," Phys. Rev. Letts. 26, 34 (1971).  
Co-authors: W. L. Lakin, T. J. Braunstein, J. Cox, H. C. Bryant, M. L. Perl, W. T. Toner, T. F. Zipf.

"Muon-Proton Deep Inelastic Scattering," (submitted to Phys. Rev. Letts.).

"Comparison of Muon-Proton and Electron-Proton Deep Inelastic Scattering," (submitted to Phys. Rev. Letts.).

James D. Finley, III

"Tidal Gravitational Acceleration Near an Arbitrary Timelike Geodesic in Schwarzschild Space," J. Math. Phys. 12, 32 (1970).

David S. King

"Cepheid Pulsation Calculations for U Sagittarii and S Normae," Bull. Am. Astron. Soc. 2, 325 (1970).

Alan W. Peterson

"Infrared Measurements of the Solar Aureole I and II," (submitted to J. Atm. Sci.). Co-author: E. L. Vande Noord.  
"The Twilight Flash of Sodium," (submitted to Sky and Telescope). Co-author: L. M. Kieffaber.

Victor H. Regener

"On the Flux of Atmospheric Ozone Near the Ground," J. Geophys. Res. 75, 4188 and 6884 (July 20 and November 20, 1970).

"Temperature Compensated Plastic Sleeve Bearing for Instruments," Rev. Scient. Instr. 41, 770 (1970).

Victor H. Regener (contd.)

"The Solar Diurnal Variation of Cosmic Rays Underground Since 1958," Acta Phys. Acad. Scient. Hungaricae 29, Suppl. 2, 133 (1970). Co-authors: D. B. Swinson, J. H. Ericksen, H. S. Ahluwalia.

Derek B. Swinson

"'Sidereal' Cosmic Ray Diurnal Variations Observed Underground," Acta Phys. Acad. Scient. Hungaricae 29, Suppl. 1, 501 (1970).

"Cosmic Ray Density Gradient Perpendicular to the Ecliptic Plane," J. Geophys. Res. 75, 7303 (1970).

"Cosmic Ray Anisotropies Perpendicular to the Ecliptic Plane," Proc. Sixth Interamerican Seminar of Cosmic Rays (in press).

5. Other research projects or creative work in progress or completed during period

Harjit S. Ahluwalia

NSF Grant #GA-4267, \$23,500, "Cosmic Ray Intensity Variations During Years of Increasing Solar Activity," 1969-1971. A proposal asking for continuation of this research for a further period of three years beyond 1971 is in preparation.

Sandia Corporation Contract #51-0059, Task 1, \$21,928, "Solar Energetic Particles," 1970-71. A renewal of this contract for a period of one more year beyond 1971 will be sought.

Seymour S. Alpert

A proposal entitled "Kinetics and Mechanisms of Macromolecular-Interactions Using Quasi-elastic Laser Light Scattering," was submitted during this period to NSF.

Charles L. Beckel

Sandia Corp. \$11,700; "Theoretical Analysis of the Vibrations and Rotations of Diatomic Molecules," completed June 30, 1970.

Albuquerque Urban Observatory, Water Quality Project (Director) completed November 1970.

Howard C. Bryant

"Optical Surface Waves on Water," NSF Grant GP-20197, \$19,800, 1 year effective 15 September 1970.

"Elastic Scattering of Muons from Protons" in progress, in collaboration with Stanford group.

Colston Chandler

New project being initiated: "An S-Matrix Approach to the Nonrelativistic Quantum Mechanical N-Body Problem."

Byron D. Dieterle

"Electron Scattering at 20 GeV Electron Energy" - collaboration with Stanford, proposal for funding submitted to AEC and NSF to cover July 1971 through July 1972.

"Neutron Scattering Reactions" - Los Alamos Experiment at LAMPF, proposal for funding submitted to AEC, preparation underway for possible 1973 experiment.

Prior to second above we are attempting to perform a necessary preliminary experiment at the Berkeley Cyclotron. Plans are ok but need to arrange money, collaborators, so time is indefinite.

James D. Finley, III

NSF Travel Grant to attend institute in Turkey.

John R. Green

Received Grant GP-20230 from the National Science Foundation for \$48,100 for a two-year period June 15, 1970 through June 14, 1972 for research involving dielectric properties and phase transformations in plastic solids.

Have undertaken a study of lower-division physics laboratories.

John L. Howarth

Research on some problems in visual perception in the Brain and Perception Laboratory, University of Bristol, with Professor Richard L. Gregory. Research program supported by Medical Research Council.

David S. King

NSF Grant Research entitled "Stellar Pulsation Theory," two years, \$18,500.

Papers in progress (to be submitted to Astrophysical Journal): 1) with John P. Cox of University of Colorado, JILA, "A Survey of the Cepheid Instability Region," and 2) with Charles Needham (master's candidate) "Theoretical Models of Cluster Cepheids."

Christopher P. Leavitt

NASA OSO-6 Neutron Detector Data Analysis, \$990,480, to August 1971.

Planning for  $\pi$ -production experiment to be carried out at the Los Alamos Meson Physics Facility (LAMPF). (No outside funding).

Alan W. Peterson

Continuing analysis of March 7, 1970 eclipse observations, NSF \$14,200 for 1 year.

"Infrared Measurements of Solar Aureole Interplanetary Dust Emission and Zodiacal Light," NASA \$17,000 to December 1, 1970.

UNM Research Allocation \$500.

Victor H. Regener

Principal investigator, NASA OGO-6 experiment, \$821,000, 1966-

Principal investigator, AF project on atmospheric ozone, \$35,000, 1969-70.

Co-principal investigator (with D. B. Swinson), NSF cosmic-ray project, \$120,000, 1968-

Derek B. Swinson

Continuation of NSF Grant GA-1515, "Cosmic Ray Variations Underground," co-principal investigators: D. B. Swinson and V. H. Regener, \$120,000, 7/1/68 to 6/30/70 (extended for another 12 months).

6. Activities in learned and professional societiesHarjit S. Ahluwalia

Participated in the one-hundred-thirty-second meeting of the American Astronomical Society held at Boulder in June, 1970. Read a paper entitled "The Energetic Storm Particle Event of June 9, 1968."

Charles L. Beckel

UNM Chapter Sigma Xi, Member Executive Committee.

Howard C. Bryant

Attended Los Alamos Meson Factory Users' Meeting in October.

David S. King

Nominated and elected to membership in the International Astronomical Union, August 1970.

Presented paper at the August 1970 meeting of the IAU entitled "Cepheid Pulsation Calculations."

Co-authored invited paper at symposium on "The Evolution of Population II Stars" December 3-4, 1970 at the State University of New York at Stony Brook, New York.

Christopher P. Leavitt

Member, Nucleon Physics Steering Committee, LAMPF Users Group (Los Alamos).

Member, Technical Advisory Committee, LAMPF Users Group (Los Alamos).

Alan W. Peterson

Became member of New York Academy of Sciences.

Victor H. Regener

American Physical Society Meeting in Albuquerque, June 1972, chairman of Committee on Arrangements.

Member, International Ozone Commission, International Association for Meteorology and Atmospheric Physics, IUGG.

Derek B. Swinson

Attended Sixth Interamerican Seminar on Cosmic Rays, La Paz, Bolivia, and read paper "Cosmic Ray Anisotropies Perpendicular to the Ecliptic Plane."

7. Other professional activities

Harjit S. Ahluwalia

A referee for articles published in the Journal of Geophysical Research.

A referee for proposals submitted to the National Science Foundation.

Gave a press interview to the Albuquerque Journal on my research projects, which appeared in July 17, 1970 issue.

Gave a lecture on Sikhism to Dr. A. Bahm's Philosophy (263) class.

Charles L. Beckel

Consultant to Dikewood Corp. and the Albuquerque Urban Observatory.

Byron D. Dieterle

Present Stanford collaboration on Electron Scattering is under a consultant agreement with Stanford.

Christopher P. Leavitt

Paper given at OSO workshop on OSO results, December 1970 at Goddard Space Flight Center.

Talk given at Southwest Model Rocket Conference, Portales, New Mexico on August 1970.

Participated in payload selection - Mercury-Venus Flyby Mission, Goddard Space Flight Center, June 25-27, 1970.

Alan W. Peterson

Answers to "Action Line" questions of Albuquerque Journal and Tribune.

Proposals: 1) carry on proposal for NGR 32-004-036, \$30,000, 2) "Airborne Infrared Spectrometry," \$118,600 for 2 years, 3) OSO-J "Infrared Zodiacal Light," 4) co-op mission definition proposal with R. K. Soberman of General Electric Space Science Laboratory and others on combined zodiacal measurements (meteorological, asteroidal satellite and interstellar particulate matter by optical and impact sensors) for the Grand Tour Mission to the Outer Solar System, 5) co-op research proposed with J. C. Brandt, S. Maran, H. Y. Chiu, C. Hyder, on photo-electric photometry and polarimetry of 1972 and 1973 eclipses.

8. Non-teaching University serviceHarjit S. Ahluwalia

Administration of research projects.

Attendance at faculty and departmental meetings.

Chairman of one and member in other study committees.

Seymour S. Alpert

Student Radio Board

Charles L. Beckel

Library Committee (until October 1970).

Athletic Council (after October 1970).

Chairman, A & S Promotion Advisory Committee (Natural Sciences and Math).

Colston Chandler

A & S Faculty Advisory Committee, member.

James D. Finley, III

Advise undergraduate majors in department.

Student Standards Committee (alternate).

Library Committee.

John R. Green

Alternate, Committee on Academic Freedom and Tenure.

Faculty advisor for upper-division physics majors.

David S. King

Member of Computer Use Committee.

In charge of Campus Observatory Public Night.

University College faculty advisor and member of 10 graduate student and dissertation committees, including two outside of Physics and Astronomy Dept.



Christopher P. Leavitt

Member, Physical Science Task Force - planning for Health Sciences Program.

Advisor at Los Alamos Graduate Center for all graduate students plus liaison.

Victor H. Regener

Member, Research Policy Committee, Administrative Committee.

9. Public Service

Charles L. Beckel

President, Kidney Foundation of New Mexico, Inc.

Howard C. Bryant

Precinct Chairman (Democratic), Precinct 382.

Treasurer, New Mexico Society for Autistic Children.

Christopher Dean

Editor, New Mexico Environmental News (published by New Mexico Conservation Coordinating Council), July-August, 1970 and following.

Christopher P. Leavitt

Active member of the New Mexico Society for Autistic Children.

10. Personal Information

Colston Chandler

Total number of children now three.

Christopher P. Leavitt

Son, Jonathon, born September 21, 1970.

Alan W. Peterson

Divorce in progress

Derek B. Swinson

Son, Kevin Henry, born August 16, 1970 in Edmonton, Alberta, Canada.

# The Report of the Department of Political Science

July 1, 1970 - June 30, 1971

Michael P. Gehlen, Chairman

## I. General Departmental Information

A. The new chairman assumed his office on July 1, 1970. The department elected four members of an Advisory Committee to make recommendations to the chairman and to the department. The four faculty members serving on the Advisory Committee for 1970-71 were Professors Needler, Stumpf, Cruikshanks, and Wrinkle.

The Advisory Committee played an instrumental role in the preparation of a new departmental graduate program. Representatives of the graduate students participated in working out this new detailed statement of requirements. After consultation with other graduate students and other members of the department, a final draft of the new program was presented to the department in November, 1970. The members of the department voted with one dissenting vote to accept the recommendation of the Advisory Committee and the new graduate program was adopted.

The chairman appointed a Curriculum Committee composed of William Brisk, Chairman, Ed Hoyt, Harry Stumpf, and Bernie Saalfeld. This committee is working on a general

evaluation of our course offerings and expects to make recommendations to the department by early fall of 1971.

Changes in the curriculum include deletion of certain courses that have been rarely taught. These are Political Science 310 and 467 as well as the individual country courses in Brazil, Mexico, and Argentina. New courses instituted include courses entitled The Politics of Ethnic Groups, Major Powers of Latin America, International Conflict, Pro Seminar in Latin American Politics, and Teaching Political Science. Political Science 553 was renamed to be Scope and Methods of Political Science.

B. With the move away from faculty advisement, it has become more difficult to ascertain the precise number of majors. The department has approximately 250 juniors and seniors who have claimed majors in political science. This represents an increase of about 30 majors over the previous year. According to departmental records there are 26 graduate students in the department. The Graduate School reports 31. Ten of these are in the Ph.D. program and the remainder are M.A. candidates.

Ray Caldwell, who completed his M.A. in February, 1971, entered the Foreign Service. He is the first graduate of the department to accomplish this career objective.

Herman Weil, who is completing his M.A. in June, 1971, received a University Fellowship at Northwestern University,

where he will work toward his Ph.D. Professor Stumpf played a major role in securing this award for Mr. Weil.

C. A distinguished committee of political scientists supported by Danforth Foundation funds visited the department April 29 - May 1, 1971 in order to evaluate the department's faculty and program. This committee was composed of Karl Deutsch, Richard Fagen, William Livingston, and Allan Sindler. The members of the committee met with officials of the university and college, the departmental faculty, and graduate and undergraduate majors. The chairman spent over six hours with the committee providing them with information and receiving recommendations.

Near the conclusion of the committee's visit, the chairman asked for an evaluation of the department's faculty. Professor Deutsch gave an oral ranking of the tenured faculty and of the non-tenured. The ranking was on the basis of professional achievements and interviews with the faculty. The committee found that all but one of the seven tenured faculty in residence conformed to what they considered national standards and gave the department a solid basis for establishing itself as a good department. The committee found weaknesses among the non-tenured faculty. They contended that too many were without dissertations. They also concluded that some of the non-tenured faculty and one of the tenured were so weak that it was doubtful that they could secure positions at other

institutions given today's market conditions. Nonetheless, the committee singled out Saalfeld, Brisk, and Cruikshanks as having particular strength and potential.

Among the recommendations received from the committee was the suggestion that more committees be appointed to involve more members of the department in departmental work. The committee also recommended that the chairman consult with other members about some budget matters, especially the distribution of merit increases. On a similar matter, the committee unanimously endorsed the distribution of merit increases for the coming academic year.

In terms of future program planning and recruitment, the committee stressed the importance of developing a broader program in ethnic politics and of attempting to recruit Chicano and/or Indian faculty.

D. Two new additions to the faculty were made, both at the rank of assistant professor and both to begin in the fall semester of 1971-72. Barry Ames, who will receive his degree from Stanford University in June, 1971, will teach in the area of comparative politics and Latin American politics. He specializes in the politics of Brazil. Paul Hain, who expects to receive his Ph.D. from Michigan State University in August, 1971, will teach in the area of American political parties and the legislative process.

The department voted to make John Hunger an assistant professor on a non-tenure schedule. Hunger will teach one course under the jurisdiction of the department in the spring semester of 1971-72.

E. No separations have been announced, although the tenured faculty did vote to give a terminal contract to Harley Holt so that he will not be continued after 1971-72.

## II. Biographical Review

1. William Brisk attended the summer Institute on the Application of Mathematics in the Social Sciences at the Virginia Polytechnic Institute. Chris Garcia received a Ford Foundation Grant for supplementary financing of his dissertation, "The Political Socialization of Mexican Americans." Bernard Saalfeld made significant progress toward the completion of his dissertation, "Taxpayers and Voters: Collective Choices in Public Education." He expects to receive his doctorate from the University of Oregon in August, 1971.

2. Three members of the department traveled abroad during 1970-71. Brisk spent August in Peru before assuming the directorship of the Andean Center of UNM in Quito, Ecuador for the fall semester. Before returning to the United States, he spent some time in Panama. Martin Goodlier spent three weeks touring Central America and the Dominican Republic. Randal Gruzkowski spent a week in Munich, Germany.

3. No report.

4. Randal Cruikshanks, "Comparative Political Science and Eastern Europe: a Critique and Suggestions," to appear in Studies in Comparative Communism.

Martin C. Needler, "Political Aspects of Urbanization in Mexico," in Arthur J. Field, ed., City and Country in the Third World, Schenkman Press.

Martin C. Needler, "Introduction" to section on Latin America, Encyclopedia Americana, 1971 edition.

Martin C. Needler, "The Era of Devalier in Haiti Draws to an End," Manchester Guardian, November 9, 1970.

Martin C. Needler, "Politics and National Character: the Case of Mexico," American Anthropologist, December, 1970.

Martin C. Needler, "Mexico at the Crossroads," Current History, February, 1971, pp. 65-70.

Harold V. Rhodes, "New Mexico Election Analysis," New Mexico Review and Legislative Journal, Vol. II, No. 12, December, 1970, pp. 13-15.

Harry P. Stumpf, "The Legal Profession and Legal Services: Explorations in Local Tax Politics," Law and Society Review, spring, 1971

Robert D. Wrinkle, "Money for Texas Cities: The Case of the Sales Tax," in the Municipal South.

5. Two members of the department submitted research proposals with the hope of attaining outside funding. As of this report, they were both still under consideration. Jay Sorenson submitted a proposal to study strategic planning under the Wilson administration to the Sandia-UNM Research Center. This proposal contained a request for \$16,000. Michael Cohen, along with four other members of the UNM Faculty, submitted a proposal to the Carnegie Corporation requesting \$22,250 to support an extensive

and of tenure arrangements in universities. If funded, the longer proposal would have a 12-month duration.

Martin Handley's book, Politics and Society in Mexico, was completed and published by the University of New Mexico Press in fulfillment of his contract with that publisher.

6. William Brick attended the Congreso Internacional de Americanistas (IXXIX) held in Lima, Peru, in August, 1970.

Brick, "Pressure Groups Under Pressure: The Peruvian Industrial Law of 1970," Rocky Mountain Political Science Association, May, 1971.

\_\_\_\_\_, "Mini-States and United Nations Membership: a 'Think Piece,'" Western Political Science Association Convention, April, 1971.

Randal Cruikshanks served as a member of a Round table for the Conference Group on German Politics at the International Political Science Association Convention in Munich, Germany, September, 1970. He also delivered a paper entitled "Comparative Political Science and Eastern Europe" at the American Political Science Association Convention in Los Angeles, September, 1970. Professor Cruikshanks also chaired a panel at the Rocky Mountain Social Science Association Convention in May, 1971.

Chris Garcia was elected to serve on the Committee on the Status of Chicano in the Profession for the American Political Science Association.

Michael Gehler continued to serve on the Board of Editors of the Journal of Politics for the Southern



Political Science Association. Gahlan was also elected Vice President and Program Chairman for the Southwest Political Science Association for 1971-72.

Edwin Hoyt delivered a paper entitled "International Law in Decision-Making Behaviour" at the International Studies Association Convention in San Francisco in March 1971.

Martin Needler served as chairman of the Steering Committee for the Consortium of Latin American Studies Programs. He was also the Coordinator for the panels on Comparative Politics for the Western Political Science Association Convention. Needler also delivered a paper entitled "The Quality of Quantities: Problems in the Use of Cross-National Data" before the American Political Science Association Convention in September, 1970.

Harold V. Rhodes served as Arrangements Chairman for the 25th Annual Western Political Science Association Convention in March, 1971.

Harry Stumpf was elected a trustee of the Law and Society Association. He attended the Annual Trustee's Meeting in Chicago in December, 1970, and was appointed a member of the subcommittee on the goals of the Association.

#### F. Non-teaching University Service

Randal Gendichanks served on the University Library Committee and on that organization's Sub-Committee on Finance. He also was a member of the departmental advisory committee.

Chris Garcia acted as Director of the state legislative internship program. He also was the coordinator for the data bank of the Institute of Government Research.

Michael Gehlen was a member of the Advisory Committee for the Division of Public Administration, the evaluation committee for the Division of Inter-American Affairs, and the Committee for the Administrative Sciences.

Edwin Hoyt continued his work as Chairman of the Regents' Committee on University Governance.

Martin Needler served on the advisory committee for the Latin American Center and also on the departmental advisory committee.

Harold V. Rhodes was the Principal Investigator of the Professional Evaluation for the Drug Abuse Educational Center. He also acted as co-director of the Albuquerque Model Cities Leadership Training Institute in the summer of 1970.

Bernard Saelfeld was a member of the Committee on Social Indicators of the Albuquerque Urban Observatory.

Jay Sorenson was a member of the Tenure and Promotions Committee for the College of Arts and Sciences.

Harry Stampf was a member of the Phi Beta Kappa Visiting Scholar Committee which sponsored the visit to UNM of Henry Abraham. He was also a member of the departmental advisory committee and the Popejoy Dissertation Prize Committee.

Robert Wrinkle appeared on a panel on Channel 5 as a discussant of City Charters for Home Rule. He also was a staff consultant to the Albuquerque City Charter Revision Committee.

The Report of the Department of Psychology  
July 1, 1970 - June 30, 1971\*  
Frank A. Logan, Chairman

I. General Departmental Information

A. Undergraduate education. At the undergraduate level, the department handled a total enrollment of 3565 in introductory lectures (of whom over 1648 participated in the optional additional laboratory hour), and 3324 in advanced courses (of whom 209 participated in the advanced laboratory courses). The graduating classes of 1970-71 included 70 psychology majors and 50 psychology minors. Our honors program continued to receive support from an N.S.F. Undergraduate Research Participation Grant to Professor Ellis, and departmental honors were awarded to three graduates: Bradley G. Bumgarner, Marcia Summers, and Mike Thornbrough. Based on an FTE staff of 14, the above figures represent approximately a 41:1 student-faculty ratio.

The undergraduate curriculum was reviewed during the year, one result of which was a complete renumbering of our courses. This was done in order better to reflect the logical organization of courses in various areas to assist students in self-advisement. In addition, we agreed to accept a course in probability and statistics taught by the Department of Mathematics as meeting our requirement in that area, but added a related laboratory course, and a new course for students primarily interested in the general concepts of statistics without the computational details.

During the Fall semester we experimented with closed-circuit television in our introductory course. Portions of the first lecture were taped while they were being given, and then replayed for the

\*Faculty data based on six-month figures to 1 January 1971.

later sections. In spite of a number of technical difficulties, student evaluations indicate that this procedure is generally acceptable, and we plan to continue its use at least until a larger lecture hall is available.

Our undergraduate enrollment continues to grow at a rate faster than that of the university as a whole and clearly overtakes our resources. However, in spite of the generally large size of our classes, the quality of instruction continues to be high. One admittedly fallible indication of this was revealed in the student evaluations done under the auspices of ASUNM. Eight members of our faculty were rated and, simply combining all the ratings and assigning values of +2, +1, -1 and -2 to the four alternative responses, the mean across all responses for all psychology faculty was +1.32. On an absolute basis, this result indicates that the majority of students find our courses well taught, and on a relative basis, the result was superior to that recorded by any other natural science department (for which the means were +.66, +.95, +1.09 and +1.15). Although most of our faculty are strongly committed to research and scholarly activities, as described in a later section of this report, we are equally strongly committed to quality education.

B. Graduate education. At the exclusively graduate level, the department handled a total enrollment of over 300 distributed among 58 registered students. This represents a student:faculty ratio of 2.7:1 on an FTE basis and 4.1:1 on a head-count basis and is thus within our self-imposed limitation of graduate enrollment.

The Master's Degree was conferred upon three candidates: William M. Beneke, Harry C. Linneman, and Michael S. Grisham. The Doctoral Degree was conferred upon eight candidates:

Summer Session 1970

Flint, Ronald  
Adviser: Richard J. Harris

The relative importance of structure and individual differences in determining behavior in two person games

Smith, Eugene  
Adviser: John M. Rhodes

The role of central catecholamines in the maintenance of free operant avoidance behavior in the rhesus monkey

Semester I, 1970-71

Fink, Richard T.  
Adviser: Peder J. Johnson

Response latency as a function of hypothesis testing strategies in concept identification

Gusinow, Joan F.  
Adviser: Louis E. Price

The modification of form and color responding in young children as a function of differential reinforcement and verbalization

Henriksen, Kerm  
Adviser: G. Robert Grice

The effects of false feedback and stimulus intensity upon simple reaction time: An investigation of the variable criterion model

Hiat, Alice  
Adviser: Karl P. Koenig

Explorations in personal space

Shaffer, Ronald W.  
Adviser: Henry C. Ellis

Categorization and discrimination of random forms following schema training

Semester II, 1970-71

Speiss, Jeffrey M.  
Adviser: G. Robert Grice

The effects of pre-knowledge of stimulus intensity upon simple reaction time

Our graduate curriculum was also reviewed and the courses renumbered. Several new seminars were introduced to broaden our graduate curriculum, one in the general experimental area (Theories of Perception, Friden), one in the developmental area (Social Development of the Child, Rosenblum) and two in the clinical area (Seminar in Clinical, Roll; Seminar in Behavior Pathology, Koenig). Additional

seminars were proposed for next year: Human Learning and Cognition, and Psychological Evaluation. Each of these additions is in keeping with our long-range plans of developing a quality program in General Experimental Psychology with primary areas of concentration in Learning, Clinical, and Developmental. The quality of our program was evaluated as of 1969 by the American Council on Education, and was rated by our peers around the country as not only improved, but at the 66th percentile of all rated doctoral programs. Considering the limited resources available, this is a notable achievement.

Our doctoral program in General Experimental Psychology continued to receive support from a training grant from the National Institute of Mental Health. This grant supported 7 trainees, and 7 other graduate students were supported on fellowships through the Graduate School. The number of graduate teaching assistants was 10 and the number of research assistants supported by extramural funds was 12. Thus, the majority of our full-time doctoral students received some form of financial aid.

C. Staff. The full-time staff during the 1970-71 academic year was composed of Professors Grice, Logan, Rhodes, and Rosenblum; Associate Professors Ferraro, Johnson, Koenig, and Price; and Assistant Professors Bessemer, Feeney, Friden, Harris, and Roll. Professor Benedetti served as part-time Associate Dean of the Graduate School and Professor Norman served as part-time Associate Dean in the College of Arts and Sciences. Professor Ellis was on leave for the academic year, spending Semester II at the University of California (Berkeley). Our FTE staff was thus 14, in addition to which Associate Professor Ruebush continued to be active in departmental affairs.

Thomas Friden (Ph.D., 1970, University of Illinois) and Samuel Roll (Ph.D., 1968, Pennsylvania State University) assumed their appointments as Assistant Professors in September 1970. David Bessemer will be leaving the university at the end of this academic year in favor of a research position; his knowledge and untiring assistance in research design and analysis will be a distinct loss. John Gluck (Ph.D., 1971, University of Wisconsin) and Marc Irwin (Ph.D., 1971, University of California at Berkeley) were appointed as Assistant Professors to begin in the Fall of 1971. Gluck will provide coverage in the area of comparative psychology and Irwin will augment our resources in the developmental area. Dr. Robert Webster taught on a part-time basis.

In addition, Professor L. M. Libo and Assistant Professors J. P. Cardillo, L. J. Miller, A. T. Quenk, and D. K. Worden, all of whose positions are formally in the Department of Psychiatry, were given titular appointments at their corresponding ranks in recognition of their contributions to the development of a clinical area of concentration within our graduate program. Dr. A. Bruner, of the Lovelace Foundation, was given the title of Adjunct Associate Professor on the basis of his work with graduate students emphasizing physiological psychology. While these appointments entail neither salary nor tenure, they do reflect the cooperation the department has received from other sources.

There were no promotions made during the year.

Our faculty recorded attendance at 11 regional or national conventions, workshops and conferences during the first six months of the reporting period. Professor Norman served on the Commission on Higher



Education of the North Central Association. Professors Rosenblum and Ruebush served on the Board of Directors of the New Mexico Psychological Association. Professor Logan served as secretary of the Division of Experimental Psychology of the American Psychological Association, was a member of its Executive Committee and its representative to the Council of Representatives of the Association; he also served on the Psychological Sciences Fellowship Review Committee of the National Institute of Mental Health.

D. Colloquia. The colloquium series during the year included a number of informal talks by candidates being interviewed for positions: Enrique Abordo (California State College, Fullerton), Martha Bernal (University of California, Los Angeles), M. Johnna Butter (Pennsylvania State University), John Gluck (University of Wisconsin), Alice Gordon (Stanford University), Marc Irwin (University of California, Berkeley), and John Nolan (Harvard University). Distinguished visitors were: Abram Amsel (University of Texas, Austin), Erika Apfelbaum (Universite de Paris), Alan Baddeley (University of California, San Diego), and Frank A. Beach (University of California, Berkeley).

E. Research. During the first six months of the reporting period, our department faculty published 4 chapters, 12 articles, and 3 reviews. They delivered 4 convention papers, 2 colloquia and 9 talks to local organizations. Extramural research support totalled over \$126,000 (direct costs), primarily from the National Science Foundation, the National Institutes of Health, and the Air Force. These funds, when added to over \$27,000 in undergraduate and graduate training grants comprise about 55% of the total operating budget of the department.

F. Service. Our faculty served on 14 extra-departmental committees within the university, served as consultants to 11 organizations, and as consulting editors on 5 journals. In addition, those faculty trained in clinical psychology, with Assistant Professor Roll as coordinator, served as advisors to a new student-to-student crisis center, Agora. This center was manned 24 hours a day by volunteer students, with Arnold Padilla as coordinator, trained in helping students with a wide range of problems or referring them to other agencies. The large number of students who have called or come in person to this center fully justifies the support given this center by the university through the department as well as through student organizations.

G. Space. The firm of Flatow, Moore, Bryan and Fairburn completed final plans for a new Psychology Building. At this writing, the bids have been opened and the contract let within the funds made available through state bond issues. While some sacrifices of design and equipment were necessary, the basic building as originally conceived should be under construction by July, 1971. Barring unforeseen circumstances, the department should have adequate office, teaching laboratory, and research space by the Fall of 1972.

Meanwhile, we continue to be cramped in a variety of inadequate facilities including a barracks (B-1) basically condemned by the fire marshall, another barracks (Y-1) shared with potentially hazardous ROTC, a small house (1821 Roma), a few rooms in a building scheduled for future demolition (Yatoka Hall), and various somewhat isolated rooms on the second and third floors of the Administration Building (Scholes Hall). New space was made available for Agora,

first in a trailer and currently in Mesa Vista Hall. Otherwise, we have no new space to house our expanding program at present.

H. Administration and Support. During the year, Eleanor Orth continued her invaluable service as Office Manager for the department. Elna Parks continued as Graduate Secretary and secretary to Professor Grice. Terry Halpin served as Research Secretary and Lynn Lynch served as part-time secretary to Professor Ferraro. Thomas Scallorn and William Shaffer served as shop men and Elnita Richardson as animal technician.

I. Summary and Conclusions. The following table summarizes the most relevant statistical facts about the Department of Psychology over the past seven years. Most notable is the extremely large (40%) increase in total undergraduate enrollment over last year. Graduate enrollment is relatively stable, in keeping with indicated national trends. Also notable is our maintenance of research productivity and extramural support in spite of decreases in federal funding for these endeavors. The principal conclusion is the same as in recent years: the increase in our resources has not kept pace with the growth of our programs. In many cases, this problem has reached the critical point where we can not further increase the size of classes without jeopardizing the quality of instruction. Although the new building will relieve much of the pressure for physical facilities, our staff is too small to effectively maintain the quality programs that have been developed, much less to fulfill the long-range plans for the department.

	<u>1964-65</u>	<u>1965-66</u>	<u>1966-67</u>	<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>	<u>1970-71</u>
FTE Faculty	8	9	10	11	13	13	14
Voting Faculty	8	10	12	13	14	15	17
FTE Staff	1	1.5	1.5	1.8	1.8	2	2
Department Budget (000)	\$105	\$129	\$154	\$191	\$229	\$243	\$282
<u>Undergraduate</u>							
Introductory enrollment	1900	2200	2300	2450	2650	2850	3565
Advanced enrollment	1500	1500	1750	1600	1800	2050	3324
Majors	34	52	40	44	48	49	70
Minors		48	49	54	42	48	50
<u>Graduate</u>							
Graduate enrollment	160	200	200	250	300	250	300
Teaching assistants	8	9	10	10	10	10	10
Research assistants	4	6	11	14	14	13	12
Fellows and trainees	2	5	8	14	18	12	14
Master's Degrees	6	4	9	8	6	5	3
Doctoral Degrees	1	0	2	5	8	12	8
<u>Research</u>							
Books and articles	18	15	19	21	23	22	16*
Lectures and reports	17	16	11	16	19	28	15*
Extramural support (000)	\$68	\$110	\$153	\$170	\$218	\$310	\$153*

(\*Based on six-month figures to 1 January 1971)

June 1, 1970 to December 31, 1970

II. Composite of information requested on individual biographical supplements.

1. Advanced study.

Friden, Thomas P.--Ph.D., University of Illinois, Champaign, Ill., Oct. 1970. Thesis: Whiteness Constancy: Inference or Insensitivity?

Roll, Samuel--Completion of a two-year postdoctoral fellowship at Yale University, June 30, 1970.

Rosenblum, Sidney--Post-doctoral Institute, Diagnostic Evaluation of Children with Learning Disabilities: A systems approach. George Washington University, Washington, D. C., June 2-5, 1970.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel.

Ellis, Henry C.--Sabbatical Leave, 1970-71, Visiting Professor of Psychology, University of California, Berkeley.

Ferraro, Douglas P.--Summer Seminar delivered to Independent Learning Systems, San Rafael, California

Roll, Samuel--Travel to Colombia, S.A. to complete research on sex-role identification and to consult for the Department of Psychiatry, Universidad de Antioquia, Medellin, Colombia.

3. New scholastic honors, fellowships, etc.

Rhodes, John M.--Promoted to Fellow, AAAS

Roll, Samuel--Sigma Xi

4. Publications

Bessemer, David W.

Long, K. K., and Bessemer, D. W. An analytical investigation of instructions designed to elicit test anxiety. Psychological Reports, in press.

Bessemer, D. W., and Stollnitz, F. Retention of discriminations and an analysis of learning set. In A. M. Schrier and F. Stollnitz (Eds.), Behavior of nonhuman Primates. Vol. 4. New York: Academic Press, in press.

Bessemer, D. W., & Rivers, L. C. Report of Phase II research findings: The design and methodology for research on the interaction of media, conditions of instruction, and student characteristics for a multi-media course in leadership, psychology, and management. Part I: Conditions of instruction. Technical Report TR-6.12a, Westinghouse Learning Corp. Contract N00600-68-C-1525, October, 1970.

4. Publications (continued)

Bessemer, D. W., & Rivers, L. C. Report of Phase II research findings: The design and methodology for research on the interaction of media, conditions of instructions, and student characteristics for a multi-media course in leadership, psychology, and management. Part II: Student characteristics. Technical Report TR-6.12b, Westinghouse Learning Corp. Contract No. N00600-68-C-1525, December, 1970.

Ellis, Henry C.

Verbal processes in perceptual learning, transfer, and mediated generalization. International Conference on Human Learning, Prague, Czechoslovakia, 1970, Vol. 2, 254-269.

Feeney, Dennis M.

Thalamic incremental responses to prefrontal cortical stimulation in the cat. Brain Research, Vol. 21 (1970), pp. 105-113.

Ferraro, Douglas P.

From free responding to discrete trials (with F. A. Logan) in W. N. Schoenfeld (Ed.), Theories of reinforcement schedules. Appleton-Century-Crofts, 1970, 111-138.

Response differentiation: A psychophysical method for response produced stimuli. Perception and Psychophysics, 1970, 206-208.

Titration delayed matching-to-sample in children. Developmental Psychology. (In press)

Effects of  $\Delta 9$ -THC in chimpanzees. Federation Proceedings. (In press)

Effects of marihuana extract on the operant behavior of chimpanzees. Psychopharmacologia. (Under review).

Harris, Richard J.

MMPI scales vs. interviewer ratings of paranoia. (Co-authored with W. Wittner, B. Koppell, and F. Hilf, Stanford Medical Center.) Psychological Reports, 1970, 27, 447-450.

Johnson, Peder J.

Effects of inforced attention and stimulus phasing upon rule learning in children. Journal of Experimental Child Psychology, June 1970, 388-399.

Koenig, Karl P.

Habit modification through threatened loss of money (with L. Stephen). Behaviour Research and Therapy, 1970, Vol. 8, 211-212.

Competent, conventional psychopathology (A Review). Contemporary Psychology, 1970, Vol. 15, No. 12.

4. Publications (continued)

Logan, Frank A.

- From free responding to discrete trials. In W. N. Schoenfeld (Ed.), The theory of reinforcement schedules. New York: Appleton-Century-Crofts, 1970. (with Ferraro, D. P.)
- Chaining and nonchaining delay of reinforcement. Journal of Comparative and Physiological Psychology, 1970, 72, 98-101.
- Relative effect of delay of food and water reward. Journal of Comparative and Physiological Psychology, 1970, 72, 102-104.
- The smoking habit. In W. A. Hunt (Ed.), Learning mechanisms in smoking. Chicago: Aldine, 1970.

Rhodes, John M.

- A comparative sleep study of two Cercopithecinae. EEG clin. Neurophysiol., 1970, 28-(1): 32-40.
- Neurophysiological studies of acute and chronic malnutrition in childhood. Clin. Research., 1970, 18: 222.

Roll, Samuel

- Conservation of number: A comparison between cultures and subcultures. Revista Interamericana de Psicología, 1970, 4, 13-18.
- Sex differences in problem solving as a function of content and order of presentation. Psychonomic Science, 1970, 19, 97.
- Review of Estaban, Ernesto A., & Paulson, Roland G. Desarrollo Somático y Rendimiento Físico del Escolar Peruano. Lima: Centro de Investigaciones Pedagógicas, 1968, in Child Development Abstracts and Bibliography, 1970, 44, 177.
- Review of Phillips, John L., Jr. The Origins of Intellect: Piaget's Theory. San Francisco: W. H. Freeman, 1969, in Child Development Abstracts and Bibliography, 1970, 44, 183.
- Review of Stierlin, Helm. Conflict and Reconciliation: A Study in Human Relations and Schizophrenia. New York: Doubleday & Co., 1968, in Child Development Abstracts and Bibliography, 1970, 44, 186-187.
- Review of Sundby, Hilchen Sommerchild & Kreyberg, Peter Christian. Prognosis in Child Psychiatry. Baltimore: Williams and Wilkins, 1968, in Child Development Abstracts and Bibliography, 1970, 44, 187-188.

Ruebush, Britton K.

- Changing disadvantaged children (Review). Contemporary Psychology, Vol. 15, 1970.
- Adolescents in a mental hospital (Review). Child Development Abstracts and Bibliography, 1970.

5. Other research projects or creative work in progress or completed during period.

Ellis, Henry C.

- NSF Grant GB-7926 "Conditions of Learning Affecting Perceptual Performance," \$33,500, April 1968-July 1970.
- NSF Grant Extension of NSF GB-7926. \$1400, July 1970-Dec. 1970.

5. Other research projects or creative work in progress or completed during period. (continued)

NSF Grant GY-7408 Undergraduate Research Participation Grant, \$8000, June-October 1970.

NSF Grant GB-27413X "Stimulus Selection and Encoding Processes in Complex Human Learning," \$42,000, Jan.1971-Jan.1973. Continuation Grant for third year, \$21,700.

Fundamentals of Human Learning and Cognition. Under contract with Wm. C. Brown Co.

Stimulus Recognition and Association Formation. Journal of Experimental Psychology. (Submitted)

Feeney, Dennis M.

Unit study of inhibition in visual cortex.

Ferraro, Douglas P.

NIMH grant to study Long Term Effects of Marijuana on Chimpanzees. 1 year, \$62,000.

Air Force contract for loan of equipment and animals to study Amphetamine Abuse.

UNM Research Allocation Committee award to study stimulant abuse in Rhesus monkeys.

Friden, Thomas P.

Preparing publication drafts of three research projects.

Co-investigator on grant proposal submitted to ESSO Foundation.

Grice, G. Robert

Completed chapter "Conditioning and a Decision Theory of Response Evocation" to be published in Bower (Ed.), Psychology of Learning and Motivation, Academic Press.

Other research in progress is supported by a 5-year grant from NIMH. Now ending second year. Current level of support, \$28,884.

Harris, Richard J.

Research on experimental games supported by UNM Grant-in-Aid and grant of computer time from Computing Center, through 6/30/71.

Research on experimental games and post-decision attitude change supported by NIH Small Grant for purchase of on-line computing equipment ("Choice, games, and the on-line computer"), through 12/31/70.

Johnson, Peder J.

Completed research project associated with NICHH grant #HD03390-01 to -03 (total amount approximately \$38,000).

Koenig, Karl P.

Chapter to be published in H. London's "Cognitive Control over Feeling States", Aldine Press.



5. Other research projects or creative work in progress or completed during period. (continued)

Logan, Frank A.

Conditions of Reinforcement, N.S.F. grant, \$30,000/year (d.c.)

Free Behavior Situation, NIMH grant, \$20,000/year (d.c.)

Laws of Learning, O.E. subcontract U. Tennessee, \$6,000 (d.c.)

Norman, Ralph D.

Book review of Craik, Kenneth H., Environmental Psychology,

pp. 1-121, in Newcomb, T., (Ed.), New Directions in Psychology 4 for the Natural Resources Journal. (Submitted Dec. 1, 1970).

A review of advantages and disadvantages of Doctor of Arts degree (part of mimeographed materials done for Acad.V.-P. and Dean of A & S, in connection with research on need for the degree).

Price, Louis E.

Form and color preferences in children.

Simple learning in young children.

Rhodes, John M.

"Investigation of CNS Function during Environmental Change,"

Air Force Missile Development Center, Contract F29600-70-C-0012,

Sept. 18, 1969 to Sept. 18, 1970, \$97,709.00.

"Chimpanzee Baseline Data for Minimal Sleep Requirements," Air

Force Office of Scientific Research, Grant AFOSR 69-1825,

July, 1970 to June 1971, \$41,527.00.

Roll, Samuel

Completed: Sex-role identification of school-related objects as a function of sexual segregation.

In preparation: Perception of the third dimension by Quechua Indian children.

In progress: Perception of the third dimension by American Indian children.

Ruebush, Britton K.

Abnormal Child Psychology, McGraw-Hill. In preparation.

Learning disabilities in children: Studies of basic learning processes. Currently underway.

6. Activities in learned and professional societies.

Ellis, Henry G.

Attended meetings of the Psychonomic Society, San Antonio,

Texas, November 1970. Presented paper entitled, "Transfer of Stimulus Discrimination and Stimulus-Encoding Alternatives."

Ferraro, Douglas P.

Long term effects of Marihuana--paper read at NIMH Drug Conference, Washington, D. C.

6. Activities in learned and professional societies. (continued)

Grice, G. Robert

Attended Psychonomic Society, San Antonio, November 1970, and gave paper: "Human Differential Conditioning to a CS Intensity Difference."

Harris, Richard J.

Member, American Psychological Association

Koenig, Karl P.

Western Psychological Association meeting, Los Angeles, Paper read.

Logan, Frank A.

American Psychological Association

Meeting, Miami Beach, September 1970

Division 3 Representative to A.P.A. Council

(Meetings: Miami Beach, September 1970

Washington, D. C., October 1970)

Council liaison to Board of Scientific Affairs

(Meeting: Washington, D. C., December 1970)

Member, Executive Committee, Division 3

Secretary-Treasurer of Division 3

Psychonomic Society

Meeting, San Antonio, November 1970

Member of Governing Board

Norman, Ralph D.

Member, Commission on Higher Education, North Central Assn. (attended meetings in Chicago, Ill., July, 1970).

Invited conferee, Doctor of Arts Conference, sponsored by Council of Graduate Schools and Carnegie Corp. at Wingspread, Racine, Wisc., October, 1970)

Price, Louis E.

Paper presented to Psychonomic Society, November 1970, San Antonio, Texas : "Dimensional Dominance in Children".

Rosenblum, Sidney

New Mexico Delegate, White House Conference on Children, Washington, D. C., December 1970.

Consultant, Child Study Center, Albuquerque, N.M., September 1970 to present.

Board of Directors, N. M. Psychological Association, July, 1970-present.

Ruebush, Britton K.

Attended meeting of American Psychological Association, September 1970, Miami; participated in meeting of Directors of Clinical Psychological Training Programs.

Member, Board of Directors, N. M. Psychological Assn.

# 7. Other professional activities.

Bessemer, David W.

Consultant to Westinghouse Learning Corp., Annapolis, Md.

Consultant to Southwest Cooperative Educational  
Laboratory, Albuquerque, N.M.

Ellis, Henry C.

Consulting Reviewer for Journal of Experimental Psychology,  
Psychological Reports, Perceptual and Motor Skills.

Talks presented at: New Mexico State Univ., Oct., 1970,  
Heights Lions Club, September 1970.

Friden, Thomas P.

Consultant: V.A. Hospital Research on Aphasia.

Harris, Richard J.

Consulted with University of Albuquerque's "Albuquerque  
Goals" office on study of factors leading people to move  
into a West Mesa housing development.

Refereed papers submitted for publication in Psychological  
Reports.

Logan, Frank A.

Consulting Editor: Journal of Experimental Psychology,  
Journal of Comparative and Physiological Psychology,  
Psychonomic Science, Wm. C. Brown Co.

NIMH Psychological Science Fellowship Review Committee.

Norman, Ralph D.

Made TV tape on "Minority Group Problems" for Sandia  
Laboratories, and consultant to Personnel Department.

Consultant-Examiner for North Central Association  
(visit to Mankato State College, Minn., Dec. 1970).

Consultant, AEC Supervisors' Conference, sponsored by  
College of Business, UNM.

Price, Louis E.

Colloquium given at University of Texas at Arlington,  
November 1970.

Consultant to State Dept. of Education, Santa Fe, October-  
December 1970.

Rhodes, John M.

Consultant: Holloman AFB, 6751st Aeromedical Research  
Laboratory; UCLA Space Biology Laboratory.

Roll, Samuel

Faculty Director of the UNM Student Crisis Center (AGORA).

Consultant to the Albuquerque Child Guidance Center.

Consultant and lecturer to the Albuquerque Big Brother program.

7. Other professional activities. (continued)

Rosenblum, Sidney

Mental Development Center, BCMC, July 24, "Counseling Parents of the Retarded".

Hadassah, Albuquerque, Sept. 2, Review of Children of the Dream.

Alb. Pub. Schools, Oct. 17, Panel: Techniques for Teachers of Adolescents.

St. Anthony's Boys Home, Oct. 30, Learning Disabilities: Causes and Cures.

Alb. Pub. Schools, Nov. 10, Workshop for First Grade Teachers.

Ruebush, Britton K.

Talks on Child Psychopathology, A.P.S. counselors, Sept. 25; October 9, 13, 30; December 4.

"The Community Child Guidance Center," Pi Phi Alumni, Sept. 15.

Talks to Albuquerque Big Brothers Chapter, September 6; December 2.

Behavior Modification in Classroom, Montgomery School, Sept. 22.

Talk on Clinical Psychology program, Clinical Psych. Forum, Dec. 11.

8. Non-teaching University service.

Benedetti, David T.

2/3 time Associate Dean, Graduate School.

Acting Chairman, Psychology Department, Summer, 1970.

Member: Graduate Committee; Subcommittee on Enrollment Limitation; Chairman, Department Admissions Committee; Department Clinical Psychology Committee.

Bessemer, David W.

University College Advisor.

Ferraro, Douglas P.

Research Policy Committee; Chairman, Subcommittee on Classified Research, member Subcommittee on Bylaws.

Departmental Faculty Search Committee, Departmental Speakers Committee, Curriculum Committee.

Undergraduate Advisor.

Friden, Thomas P.

Admissions Committee, Undergraduate calculator Lab. Advisor in University College.

Grice, G. Robert

Graduate advisor.

Harris, Richard J.

Advisor, University College.

Chairman, Curriculum Review Committee, and Subject Pool Committee, Department of Psychology.

# 8. Non-teaching University service. (continued)

Johnson, Peder J.

Co-chairman, Dean's Committee; Faculty Advisory Committee.  
A & S Advisor.

Koenig, Karl P.

Policy Committee, Clinical Psychology Committee.  
AGORA Advisor and Board Member.

Logan, Frank A.

Chairman, Graduate advisor  
UNM Committee on Human Subjects (Chairman)

Norman, Ralph D.

Associate Dean, A & S College.  
Committee on University Governance, Committee on Evaluation  
of Teaching; Ad hoc member, Health Sciences Planning  
Committee, Clinical Training Committee Psychology Department,  
Research Allocations Committee (summer 1970 only).  
Member of Board of AGORA.

Price, Louis E.

COE-Human Subjects Research Review Committee.  
Manzanita Center Policy Committee.

Rhodes, John M.

Member Graduate Committee, two sub-committees (Workshops,  
and Graduate Curriculum).

Roll, Samuel

Developmental Psychology, Clinical Psychology (Dept. of  
Psychology committees)

Rosenblum, Sidney

Board member, Popejoy Hall.  
Chairman, A & S Human Research Review Committee.  
Member, Task Force on Programs for Health Sciences.

Ruebush, Britton K.

Director, Albuquerque Child Guidance Center, Dept. of  
Psychiatry.  
Chairman, Clinical Psychology Committee.  
Member, Research Committee, Children's Committee, Department  
of Psychiatry.  
Growth & Development Committee, Medical School

# 9. Public service.

Ferraro, Douglas P.

Board member--RAP, Inc.  
Member City of Albuquerque Drug Abuse Technical Advisory  
Committee.  
Professional Back-up for AGORA and RAP, Inc.

9. Public service. (continued)

Norman, Ralph D.

New Mexico Citizens Committee on Human Rights.

Rhodes, John M.

Oeader, Univ. Forum, White House Conference on Children and Youth.

Rosenblum, Sidney

Religious School Teacher, Confirmation Class, B'nai Israel Synagogue.

Board member, Experiment in Jewish Learning, Albuquerque Jewish Welfare Fund.

Ruebush, Britton K.

Member, Council of Executives, U.C.F.

10. Personal information.

Harris, Richard J.

Son, Christopher Richard Harris, born September 21, 1970, Albuquerque.

Koenig, Karl P.

Divorced and remarried.

The Report of the Department of Sociology  
July 1, 1970 - June 30, 1971  
Charles E. Woodhouse, Acting Chairman

I. General Departmental Information

A. Organizational changes in the department included the appointment of a director of graduate studies and a director of graduate admissions. The graduate students of the department elected three representatives with voting privileges in departmental meetings.

The department offered several new courses during the year. These included Sociology of Science (381) taught by H. Gilman McCann and a seminar in The Sociology of Science (509) also taught by McCann. In cooperation with Chicano Studies we offered Sociology of the Barrio (226) taught by Maxine Zinn and Richard Griego; Chicanismo: Contemporary Mexican American Society (227) taught by Frederick Norwood and Richard Griego. In cooperation with the Afro-American Studies program we offered The Black Family in America (310) taught by Mrs. Hannah Best. The department also granted sociology credit for two courses Social Problems (211) and Race and Cultural Relations (216) which were offered for students in The New Careers program who were working for the Associate of Arts degree in Human Services.

B. The enrollment in sociology courses and the number of majors have increased in 1970-71 over 1969-70. Student enrollment in all courses increased by 20.43% between Semester I of 1969-70 and Semester I of 1970-71. Between Semester II of 1969-70 and Semester II of 1970-71 the increase was 41.64%. During both semesters this year we have had to turn away large numbers of students at registration. The number of majors increased from 114 to 124. The number of graduate students in Semester I 1970-71 was 38 as compared to 34 in Semester I 1969-70.

The number of majors we have graduated for the last five years is indicated below:

<u>12-month period ending June</u>					
	1967	1968	1969	1970	1971
BA (major)	17	18	24	33	24*
BA (minor)					30
MA	3	2	1	3	2

\*Decrease in majors probably due to transfers to BUS.

Members of the department were active in initiating a faculty inquiry into the relationships of the Institute of Social Research and Development to the university community. This has resulted in negotiations by the ISRAD subcommittee of the Research Policy Committee with the administration to establish new guidelines for the integration of ISRAD with the faculty.

Achievements and postgraduate activities of several of our students are as follows:

Heidi Marchand, Sociology major (BA June 1971), was elected a Member-in-Course of the Alpha of New Mexico Chapter of Phi Beta Kappa.

Antonio Chavez, Sociology major, has been awarded a John Hay Whitney Fellowship and will attend Northwestern University next year.

Robert L. Daby, Sociology major (BA June 1971) has been admitted to the graduate program in Sociology at UNM.

Maxine Baca Zinn (MA 1971) has been admitted to the doctoral program in Sociology at the University of Oregon and has been awarded a Teaching Fellowship.

Philip Crump, graduate assistant, has been awarded an NSF Summer Traineeship. He also served as Chairman of the Student Advisory Board for the College of Arts and Sciences during the year.

Barbara Hostetler, graduate student, has been awarded a renewal of her University Fellowship for next year.



Curtiss Eving, graduate student, has been admitted to the doctoral program in sociology at the University of Colorado.

C. Plans for initiating a Ph.D. program have been going forward and the department has been working to develop a curriculum for this program. We have plans to invite a team of nationally known sociologists to come next year with the aid of Danforth Foundation funds to evaluate our plans and our capacity to launch such a program.

D. Appointments to staff for 1971-72 all effective in August 1971:

Theodore Abel as Visiting Professor Semester II, 1971-72 (BA University of Poznan, Poland, MA Columbia, Ph.D. Columbia, 1929). Specialties: sociological theory, social change, political sociology.

Joseph A. Blake as Assistant Professor (BA Florida Atlantic University, MA Northwestern University, Ph.D. Northwestern University, expected 1971). Specialties: collective behavior, military sociology, social organization.

Pedro R. David as Visiting Professor for 1971-72 with half-time appointment in Criminal Justice Program of ISRAD (Masters degree in Law, Doctor of Jurisprudence in Social Science, National University of Tucuman, Argentina, Ph.D. Indiana University, 1962). Specialties: criminology, sociology of law.

Frieda L. Gohlen as Visiting Assistant Professor (BS Evangel College, MS Michigan State University, Ph.D. Michigan State University, 1967). Specialties: sociology of education, political sociology, social organization of American society.

George A. Huaco as Professor (BA University of California, Berkeley; MA University of California, Los Angeles; Ph.D. University of California, Berkeley, 1963). Specialties: sociological theory, sociology of art and literature, and sociology of knowledge.

#### E. Separations from Staff.

Jo Ann Godfrey and Macon McCrossen resigned as instructors from The New Careers Program under ISRAD.

#### II. Composite of information requested on individual biographical supplements

##### 1. None.

2. Patrick McNamara taught at University of Rochester, Rochester, New York, Summer 1970. Gilbert Merkx was a visiting researcher at the Latin American Institute, Stockholm, Sweden, Summer 1970. Richard Tomasson was on sabbatical Semester I, 1970-71 in Iceland. Antonio Ugaldes was on leave during entire period as a consultant for WHO in Colombia and also traveled in Bulgaria, Spain, Switzerland.

3. Gilbert Merkx received a faculty research grant for work on Scandinavian politics, Summer 1970.

##### 4. Publications:

##### Patrick McNamara:

- "Dynamics of the Catholic Church," in Grabler, Moore and Guzman, The Mexican American People (Macmillan, 1970), pp. 449-485.
- "Priests, Protests and Poverty Intervention," in Zurcher & Bonjean, eds., Planned Social Intervention (Chandler, 1970), pp. 369-376.
- "Bishops, Padres, and the Barrios," Commonweal, Oct. 30, 1970, pp. 116-117.

##### Harold Maier:

- "Generational Differences in Value Orientations Toward Higher Education," Sociology of Education, 43:69-89.

##### Gilbert Merkx:

- "Origins in New Mexico" (with R. J. Griego), chapter in Norman B. Yezman, ed., Majority and Minority (Allyn and Bacon, Fall 1970).
- "Revolutionary Ideology in Argentina," chapter in June Nash, ed., Ideology and Social Change in Latin America (Gordon Breach, Fall 1970).

##### Antonio Ugaldes:

- Power and Conflict in a Mexican Community, University of New Mexico Press, August 1970.
- "Measuring Wealth in a Semi-Cash Economy," Rural Sociology, December 1970.

## 5. Other research projects in progress:

## Joseph Fashing:

Edited and cowrote Between Moscow and Rome: Lios Warsaw: Education and Socialization in People's Poland, Joseph Flizman, Princeton University Press (forthcoming)

Research on the politics of change in higher education; work on completing manuscript for Academics in Retreat to be published by UNM Press (with Steven Deutsch).

## H. Gilman McCann:

Progress on Ph.D. dissertation.

## Harold Meier:

Research paper: "Mother-centeredness and College Youths' Attitudes Toward Social Equality for Women: Some Empirical Findings" (submitted for possible presentation to ASA annual meetings).

## Gilbert Merks:

"Hidden Models of Mental Illness" (with Lois Dilatush), article. Revolution in Twentieth Century Latin America (book contracted with Harper and Row for Torchbook Series.

The Sociology of Development (book under discussion with Neil Smaiser, Sociology Editor, Prentice-Hall.

The Sociology of Late Capitalism (with Harold Meier), book underway.

"Recessions and Rebellions in Argentina," International Journal of Comparative Sociology (Canada), article forthcoming.

"El Nudo Gordiano: Conflicto politico en la Argentina Post Peron," in Juan F. Marsai, ed., Nuevas Perspectivas sobre la Politica Argentina (Buenos Aires, Editorial Hachette), chapter forthcoming.

"The History of the North American University," Proceedings of the Eleventh Seminar on Higher Education in the Americas (University of New Mexico Press), paper forthcoming.

"The Current North American Social Crisis," Proceedings of the Eleventh Seminar on Higher Education in the Americas (University of New Mexico Press), paper forthcoming.

"The Current Crisis of the North American University," Proceedings of the Eleventh Seminar on Higher Education in the Americas (University of New Mexico Press), paper forthcoming.

"Revolution in America? Ethnicity, Class, and the Crisis of Culture," Monthly Review, article forthcoming.

"The Failure of Elites by Frank Bonilla," American Sociological Review, Book Review forthcoming.

"Revolution, Class, and Consciousness: Cuba and Argentina Compared," Journal of Interdisciplinary History (with Nelson P. Valdes), article forthcoming.

"Economics and History in the Study of Rebellions: The Argentina Case," in Garry Brewer and Ronald Brunner, eds., Approaches to the Study of Political Development (The Free Press), chapter forthcoming.

"Ensayo de la Modernizacion," by Gino Germani, Revista Latinoamericana de Sociologia (Buenos Aires), book review forthcoming.

David Stratman:

Revised version of dissertation (Modern Political Delinquency) submitted to UNM Press.

Richard F. Tomasson:

Continuing research for book on The Icelanders: Culture, Social Structure, and Modernization of an Egalitarian People.

Antonio Ugalde:

The Process of Decision-Making in a Public Bureaucracy, manuscript to be completed under sponsorship of WHO, Geneva.

The Rise of Populism in Colombia, materials for manuscript gathered during residence in Colombia, 1970.

#### 6. Professional Papers Read

McNamara read a paper at the 1970 meetings of the Society for Scientific Study of Religion in New York (October) titled "'Bureaucratic and Voluntary Patterns in the American Catholic Church."

Markx was chairman and organizer of the Thematic Session, ASA meetings, August 1970. He also read a paper in the session on Sociology of Art, ASA meetings, August 1970, titled "Black and White Jazz: The Sociology of Style." Markx read two other papers during the period: "Revolution, Class, and Consciousness: Cuba and Argentina Compared" at the Rural Sociological Association meetings and "Revolution in America? Race, Class, and the Crisis of Culture" in the Thematic Forum of the 1970 meetings of the Modern Language Association.

Stratman was appointed to the International Sociology Association's session on criminology.

Antonio Ugalde attended the VII World Congress of Sociology, ISA, in Varna, Bulgaria, Sept. 14-19. He was also U.S. Coordinator for Latin American Group of the International Association of Sociology.

#### 7. Other professional activities:

Fashing gave four performances as the "Master" in Tripping in God's House, a play on the theme of drug abuse. Performances were in conjunction with participation in a series of symposia on the problems of drug abuse.

Ugalde was Associate Editor of The Pacific Journal of Sociology, consultant to the World Health Organization, and also gave several lectures to public health administrators in Colombia.

Woodhouse was consultant for Kirschner Associates on evaluation of Irish Channel Action Foundation in New Orleans.

#### 8. Non-teaching University Service:

Fashing was a member of the A&S Advisory Committee, Committee for the Enhancement of the Educational Process, project director of the NSF Student Research Allocations Fund, advisor to SDS, Moratorium Committee, and Director of Graduate Admissions for the Sociology Department. He also advised 100 University College students.

McCann was elected Director of Graduate Studies for Sociology Department.

McNamara was a member of the University Committee on Human Subjects and advisor to 35 sociology majors.

Kaier was advisor to 47 sociology majors.

Morlok was a member of the Curriculum Committee, Faculty Advisory Committee, Latin American Program, Faculty Advisor for SDS.

Stratman was advisor to 35 sociology majors.

Woodhouse was Acting Chairman, Department of Sociology.

#### 9. Public Service:

Fashing was a member of the advisory board for Project Turnkey (public housing).

THE REPORT OF THE DEPARTMENT OF SPEECH COMMUNICATION  
July 1, 1970 - June 30, 1971  
Wayne C. Eubank - Chairman

I. General Departmental Information

A. Significant Achievements during the Academic Year, 1970-71

1. Change of Name

In order to conform with current trends in our discipline, the Speech faculty voted to change the departmental name to the Department of Speech Communication.

2. Enrollment

(a) Undergraduate. Due to the closing of Speech 255 sections to Education College students in the fall (we offer most of the classes for these students in the spring) our undergraduate enrollment for the first semester was down about 8%. However, enrollment for the spring semester was up 26%.

(b) Graduate. Graduate enrollment in the department again broke all previous records--39 students the first semester and 46 during the second semester. This figure represents an increase of 10 students over the 1969-70 total.

3. Number of Students Choosing Speech Communication as Major and Minor

Undergraduate major enrollment in the Department of Speech Communication averaged about 85 students each semester, about a 10% increase over 1969-70. Twenty-two undergraduate and 21 graduate students completed their degrees during the 1970-71 year. Thirteen students who graduated with bachelor's degrees in Speech during 1970-71 will be working toward their master's degrees. Four students receiving their master's degrees during 1970-71 will be working on their doctorates.

#### 4. New Courses

Six new courses were added to the curriculum of the Department of Speech Communication this year--three in Public Address, Rhetoric and Communication Theory, two in Speech Pathology and Audiology, and one in Speech Communication Education. At the undergraduate and master's degree levels the department believes that we have an outstanding curriculum. Only minimal additions will be needed in the future at these levels. In fact only a few additions, primarily at the seminar level, would be needed to expand the curriculum to embrace the doctoral degree.

#### 5. Communication Area

The area of Communication demonstrated a remarkable growth during the past year. Speech 101 (Fundamentals of Speech Communication) incorporated a greater interpersonal communication influence (in two sections of Speech 101 students experimented with video tapes as an instructional device); Speech 315 (Problems of Interpersonal Communication) virtually tripled its enrollment from 25 in the fall semester to 70 in the spring; Speech 544 (Seminar in Organizational Communication) doubled its enrollment over the previous year; Speech 546 (Literature of Communication Research) was added to the curriculum, bringing the total number of undergraduate and graduate communication courses to nine.

In addition to teaching, a strong commitment to research resulted in the publication of four journal articles and the presentation of six convention papers by Drs. Gerald Goldhaber and John Kline. Dr. Goldhaber received a research grant from the University Research Committee to study the effects of compressed speech on foreign languages. Additionally, a complete study of the university's communication network with implications for student unrest was conducted by Dr. Goldhaber for President Heady.

Future directions of the department should encompass such fields as nonverbal and intercultural communication. The addition of Dr. Lawrence Rosenfeld should facilitate movement in these directions.

#### 6. Forensics Program

1970-71 was a rebuilding year for the forensics program after losing many of the top members of the 1969-70 squad to graduation and marriage. The squad continued to increase the scope of tournament participation, attending fifteen off campus tournaments in eight states. The forensics squad included about fifteen people during the year.

Awards acquired during the year represented success in extemporaneous speaking and student congresses as well as debate. One team attended the Western Speech Association tournament and three students attended the National Conference of Delta Sigma Rho-Tau Kappa Alpha.

The UNM forensic staff and students hosted the Tenth Annual Lobo Forensics Tournament on campus. The tournament opened



with a public debate between the University of Southern California and the University of Texas. More than thirty schools participated.

The forensics squad provided judging services for several groups during the year. Judges were provided for two American Legion speech contests and the Optimists Club, two Menaul High School contests, and the Indian School speech contest.

#### 7. Telecommunication

Description of the area was changed during the year from "Radio-Television" to "Telecommunication." The new term reflects a shift in emphasis from a strictly broadcast industry orientation toward a more broadly-based concept of communication utilizing professional media tools.

Although content of course material in the total program was changed very little (except for the addition of content on television film), the arrangement of material within the several courses was shifted significantly, providing, it is hoped, a more useful experience for students interested in non-broadcast aspects of media communication, while not diluting the quality of the broadcast-oriented education. Catalog descriptions have been rewritten to conform to this rearrangement of material.

With the move of KNME-TV to their new building, and the subsequent lack of access to KNME facilities for laboratory use, plans were made to use the studio and control room areas of the old facility at 1801 Roma. Due to a late start on remodeling, the move has been delayed from early second semester to

summer. Equipment sufficient for bare-bones laboratory operations has been purchased and will be installed upon completion of remodeling. In addition to Speech Communication Department use, the lab will be utilized by the Journalism and Dramatic Art departments. It is hoped that future funding will permit expansion of the present equipment levels to provide a broader, more sophisticated base of laboratory experience.

#### 8. Speech Pathology and Audiology

##### a. Accomplishments to Date

1. Changes in Faculty and Staff. Dr. David Draper joined the faculty in September as Assistant Professor, Speech Pathology. He serves as Coordinator of Clinical Services in Speech Pathology, where his primary responsibilities are to coordinate all clinical speech activities in the Speech and Hearing Center and to maintain effective training relationships with outside programs. He also supervises clinical practicum and teaches one to two formal courses per year. This position is new in that it represents an upgrading of one of the M.A. supervisory positions to the Ph.D. level. There were two additional changes in supervisory staff in September, 1970. John Grainger, M.S., replaced Michael Crum as Clinical Supervisor, Audiology, when Mr. Crum returned to school to work toward a Ph.D. degree. Karen Peterson, M.A., joined the staff as Clinical Supervisor, Speech Pathology. She replaced David Peterson, who also returned to school to work on a doctoral degree.

Two persons were added to the faculty and will join the program in August, 1971. William Ryan, who is completing his Ph.D. at Purdue University, will join the faculty as speech and hearing scientist. Maureen O'Connor, M.S., will replace Kerstin Engstrom as Clinical Supervisor in Speech Pathology. Miss Engstrom has resigned to be married.

Each of the three clinical supervisors will receive academic appointments this year for the first time. They will hold the rank of Lecturer. The change was requested to take the supervisors out of the staff category and give them a status more fitting their positions as clinical teachers.

Action has been initiated on two other faculty appointments. Dr. Karl Hattler, Director of Audiology, Lovelace Clinic, Albuquerque, and Dr. Donald Sims, Director, Child Study Center, New Mexico School for the Deaf, Santa Fe, are to receive appointments as Adjunct Assistant Professors of Speech (Audiology). Both have participated in the training program by providing clinical practicum experience at their respective institutions.

## 2. Training Facilities

a) A large portion of the training involved use of facilities of cooperating programs. Examples of cooperative efforts are given below:

1) Clinical facilities at the V.A. Hospital were used by Dr. Bruce Porch in teaching the aphasia sequence.

This arrangement made available an excellent closed circuit T.V. system as well as V.A. patient material.

2) Dr. Richard Hood and graduate students conducted aural rehabilitation classes in the Speech Pathology Clinic at the V.A. Hospital, providing services for V.A. patients and for hearing impaired adults from the community.

3) Practicum training was carried out in a number of facilities including the V.A. Hospital, the Albuquerque Public Schools, the Albuquerque Hearing and Speech Center, the Bernalillo County Medical Center, the Lovelace Clinic, Bataan Hospital Rehabilitation Center, and the New Mexico School for the Deaf.

### 3. Facilities for Supervised Clinical Practicum

Diagnostic speech, hearing, and language evaluations and therapy were conducted by professional staff and by graduate students in a number of settings with a variety of patients during the period covered by this report. These activities are detailed below according to types of problems, ages of patients, referral sources, and facilities at which the services were offered.

a) University Speech and Hearing Center. The number and types of speech and language evaluations performed in the Speech and Hearing Center as part of the regular training clinics are listed by age groupings in the following table:

Type of disorder	Pre-School	6-14	15-18	Adult	Total
Stuttering	4	6	0	2	12
Foreign Dialect	0	0	0	37	37
Articulation	30	18	3	1	52
Dysarthria	0	0	0	2	2
Delayed Speech and Language	15	15	0	0	30
Voice	0	8	0	10	18
Cleft Palate	0	8	2	0	10
Tongue Thrust	1	6	2	0	9
Aphasia	1	2	0	0	3
Totals	51	63	7	52	173

Referral sources for the above evaluations were as follows:

Medical (Private physicians and Medical School) . . . . . 65  
Speech pathologists . . . . . 7  
Lay persons (self, family, friends) . . . 51  
Agency and other . . . . . 50

Total 173

In addition to the above, evaluations were conducted in the Speech and Hearing Center on a regularly scheduled basis for children referred through the New Mexico Elks Cerebral Palsy Commission and the Mental Retardation Division of the Community-Medical School Mental Development Center. A total of 47 cerebral palsied children have received comprehensive evaluations this year. Eighteen mentally retarded children have been evaluated. Dr. Dolores Butt is in charge of the Cerebral Palsy Program.

Taking into account the regular out-patient clinics and the evaluations for cerebral palsied and mentally

retarded children, a total of 238 persons received speech and/or language evaluations in the Speech and Hearing Center during this report period.

Therapy services in the clinic were provided primarily by graduate students; however, limited treatment was provided by professional staff members on a demonstration basis. Types of problems and numbers of patients seen for therapy are detailed by age groupings in the following table.

<u>Type of Disorder</u>	<u>Pre-School</u>	<u>Ages</u>		<u>Adult</u>	<u>Total</u>
		<u>6-14</u>	<u>15-18</u>		
Stuttering	0	5	0	12	17
Foreign Dialect	0	0	0	35	35
Articulation	20	30	0	1	51
Delayed Speech and Language	10	20	0	0	30
Cerebral Palsy	0	8	0	2	10
Voice	0	18	0	10	28
Cleft Palate	0	2	2	0	4
Tongue Thrust	0	2	2	0	4
Aphasia	0	1	0	0	1
Alaryngeal Speech	0	0	0	4	4
Autism	1	0	0	0	1
Dysarthria	0	0	0	1	1
GRAND TOTALS	31	86	4	65	186

An ongoing program of diagnosis and treatment of voice disorders was introduced in March, 1969. Evaluation clinics are conducted once a month with four local E.N.T. specialists participating on a rotating basis. Patients in these clinics receive comprehensive evaluations, including laryngoscopic examinations, measurement of vocal frequency and intensity, analysis of breathing patterns,

and spectrographic analysis of speech samples. Recommendations for rehabilitative procedures are made jointly by the medical and speech pathology personnel. Where therapy is recommended, this is provided by graduate students under direct supervision of Kerstin Engstrom. Dr. Fred Chreist and Miss Engstrom have coordinated the voice program.

Clinical audiology services offered as part of the training program were provided at the Speech and Hearing Center and at Bernalillo County Medical Center. Activities at the Speech and Hearing Center are detailed in the following table:

Type of Disorder	Pre-School	Ages		Adults	Total
		6-12	13-18		
Hearing Evaluations	75	70	50	110	315
Hearing Aid Evaluations	5	10	10	30	55
Hearing Aid Rechecks	<u>3</u>	<u>5</u>	<u>7</u>	<u>15</u>	<u>30</u>
Totals	83	85	77	155	400

Referral sources for the audiology patients were as follows:

<u>Medical</u>	
Private Physicians . . . . .	120
Medical School . . . . .	30
Mental Retardation Program (Med. School) . . . . .	40
University Health Service . . . . .	10
<u>Speech and Hearing Center</u>	
Evaluation Clinics . . . . .	35
Cerebral Palsy Clinics . . . . .	47
<u>Agencies</u> . . . . .	45
<u>Other</u> . . . . .	73
	<u>400</u>

The aural rehabilitation program was continued under direction of Dr. Richard Hood. Sixteen students have been involved in this program since September. Services have been provided for seven hearing impaired pre-school children, eight school age children, and six adults. Therapy is conducted individually and in groups.

b) Bernalillo County Medical Center. Testing at Bernalillo County Medical Center was continued as part of the E.N.T. Out-patient Service. Routine pure tone tests were done in that setting, with patients requiring more comprehensive evaluations being referred to the Speech and Hearing Center. Approximately 80 patients have been tested at the Bernalillo County Medical Center this year. This setting provides excellent training in that students work in close contact with E.N.T. specialists and other medical personnel.

c) Veterans Administration Hospital. Seven graduate students in speech pathology have participated in diagnostics and therapy at the V.A. Hospital this year. Approximately 80 patients were available for observation or practicum. The majority were patients with aphasia, but other disorders such as dysarthria and alaryngeal speech were represented. Several students also attended workshops at the V.A. on administration and interpretation of the Porch Index of Communicative Ability, a diagnostic test for aphasia authored by Dr. Bruce Porch.

Dr. Hood, V.A. audiology consultant, conducts a limited hearing testing program and also supervises aural



rehabilitation activities for an adult group which meets at the V.A. Hospital weekly. Five graduate students participated in the rehabilitation program, which emphasizes speech reading, hearing aid orientation, speech conservation, and counseling. Six adults currently are enrolled in the program.

d) Lovelace Clinic. Four audiology students have participated in the hearing testing program at Lovelace Clinic, under the supervision of Karl Hattler, Ph.D., and Allan Stalcup, M.A. At Lovelace students are exposed to a diversified patient population and obtain broad experience in audiometric evaluations and hearing aid evaluations.

e) Other Programs. Other facilities and programs utilized for training are the Albuquerque Hearing and Speech Center, the New Mexico School for the Deaf, the Albuquerque Public Schools, and Bataan Hospital Rehabilitation Center. Training opportunities included evaluation and therapy with speech, language and hearing impaired children and adults.

All students are encouraged to participate in as wide a variety of clinical activities as possible including work with children and adults, to develop themselves as well rounded clinicians.

#### 4. Inter-Departmental Cooperation in Planning and Providing Training

a) Resident physicians in pediatrics are now receiving experience with speech, hearing, and language disordered persons as part of their training. Each physician spends

one-half day a week in the Speech and Hearing Center during his three-month neurology rotation. Since September, residents have rotated through the Speech and Hearing Center.

b) Reciprocal teaching arrangements have been made with several individuals and programs within the University of New Mexico School of Medicine. James Browder, M.D., Assistant Professor of Pediatrics, provides medical consultation relative to communication disorders in mentally retarded pediatric patients. His participation in the speech pathology program affords students an opportunity to observe comprehensive diagnostic evaluation of mentally retarded children and to participate in the speech, language and hearing aspects of the program. Some mentally retarded patients from Dr. Browder's program at the Mental Development Center are referred to the Speech and Hearing Center for these services. For students doing practicum at the Mental Development Center, Dr. Patricia Mershon, Educational Specialist, provides supervision.

c) A formal proposal has been submitted to the University and Medical School administration for development of a Communication Disorders Unit at the Medical School. A request for space is being considered by Medical School personnel and the University architects.

d) A committee has been organized to study possibilities of providing multi-disciplinary training for students interested in various aspects of rehabilitation. A number

of UNM departments and disciplines are represented on the committee, including speech pathology and audiology, rehabilitation counseling, psychiatry, physical therapy, and nursing.

5. Collaboration with Rehabilitation Agencies and Other Community Rehabilitation Programs

a) Procedures for establishing closer working relationships with state rehabilitation counselors have been discussed with Mr. Harry Farenbruch, State Division of Vocational Rehabilitation. Attempts have been made to inform D.V.R. personnel throughout the state of services available at the Speech and Hearing Center and to facilitate their use of our programs. Referrals from rehabilitation counselors already have increased through our expanded clinical relationships with the Bernalillo County Medical Center and the Regional Medical Program.

b) A two-day Communicative Disorders workshop was held in July, 1970 for state employed rehabilitation counselors. An attempt was made to acquaint these persons with various communicative disorders and their possible impact on employment potential, as well as their place in the total rehabilitation picture. This program, which involved our entire staff, was very well received. Another such workshop is planned for July, 1971.

c) Dr. Lloyd Lamb replaced Dr. Samuel Fletcher in representing speech pathology and audiology on the University of New Mexico Subcommittee on Rehabilitation

Planning. This is a broad based committee consisting of persons from within and from outside the University who have an interest in rehabilitation. The charge of the committee is to evaluate rehabilitation activities at or connected with the University, to assess resources, to coordinate existing programs, and to develop plans leading to comprehensive rehabilitation in the areas of teaching, patient service, and research.

d) University speech pathology and audiology personnel have served in key positions for a number of rehabilitation oriented organizations and committees.

These appointments include the following:

- i. Dr. Dolores Butt - Member, professional advisory board, United Cerebral Palsy; state delegate, Council for Exceptional Children; member, professional advisory board, New Mexico Society for Crippled Children and Adults.
- ii. Dr. Bruce Porch - member, advisory board, Albuquerque Council on Learning Disabilities.
- iii. Dr. Lloyd Lamb - member, professional advisory board, United Cerebral Palsy; coordinator, New Mexico Communication Disorders Study Project.
- iv. Dr. Richard Hood - President, New Mexico Speech and Hearing Association.

## 6. Guest Lecturers and Consultants.

The Speech Pathology-Audiology Colloquium Series was continued, with speakers covering a broad range of topics. Speakers this year included the following:

Dr. John Saxman, University of Wisconsin  
 Dr. Alan Feldman, Upstate Medical Center,  
 Syracuse, New York  
 Dr. Robert Wirtz, University of Colorado  
 Dr. Kenneth Burk, Purdue University  
 Dr. Dean Williams, University of Iowa  
 Dr. Raymond Carhart, Northwestern University.

Each of the speakers was chosen because of his expertise in an area relating to communication disorders and each provided a great deal of stimulation to students and staff alike.

## 7. Other Developments

a) Application was made for accreditation of our speech pathology training program by the Education and Training Board (ETB) of the American Board of Examiners in Speech Pathology and Audiology (ABESPA). This is the national accrediting agency which represents the American Speech and Hearing Association, our professional organization. Accreditation requirements are quite stringent and only programs which meet high training standards receive accreditation. A previous application from UNM, submitted in 1967, was withdrawn upon advice of ABESPA because the program at that time had marked deficiencies. We feel that the problems have since been corrected and that we now have a training program of excellence that should receive accreditation with little difficulty.

b) Speech pathology and audiology personnel recently undertook an innovative training program to prepare four Indians as audiometric technicians. Four persons completed the program, one each from Mescalero, Zuni, Canoncito and Zuni. Their jobs are to identify individuals with hearing loss and to assure that proper medical, surgical, rehabilitative, and educational procedures are initiated. Six members of the speech pathology and audiology program took part in the initial training program, and three, Drs. Lamb and Hood, and Mr. Grainger, are monitoring the activities of the trainees on the job. The program, carried out under contract with the Indian Health Service, has great potential for delivery services to the Indians of New Mexico, and in addition, opens new vistas for research in communicative disorders. Contracts are being developed for continuation of this program, and for development of clinical and technical facilities at UNM for use with the Indian project.

## B. Significant Plans and Recommendations for the Near Future

### 1. Ph.D. Program

The 1969-70 annual report indicated that the Department of Speech Communication was looking forward to the establishment of a Ph.D. program in the immediate future. Although the department still believes that faculty-wise and curriculum-wise we are ready for such a program, in view of the deteriorating job opportunity situation throughout the country, we deem it unwise and unnecessary to pursue the request at this time. If the job opportunity situation should change in the future, the department will be ready to submit a doctoral program request.

### 2. Space

After several months' delay, it is now certain that the department will occupy the space in the front of the building previously occupied by KNME-TV. The departmental office and three faculty members will move from the present building and two faculty members from 1805 Roma. Space vacated in the rear of the building will be utilized by speech pathology and audiology. However, the University Speech and Hearing Center is housed in essentially the same facility now as some ten years ago, yet the total staff has grown from two in 1960 to ten in 1971 and the graduate student enrollment has increased from five to approximately thirty. This growth in numbers has greatly increased the demand for services and has been accompanied by growth in the in the overall scope of programs in terms of types of services provided, e.g., specialized training programs leading to M.A.

degrees in speech and hearing science and in audiology. Additional space will have to be provided for the Speech and Hearing Center in the immediate future. In fact, the department expects to meet with Vice President Sherman Smith regarding permanent space for the Department of Speech Communication within the near future.

### 3. Telecommunication

The telecommunication program is currently being evaluated and specific recommendations for the achievement of both short and long range goals are planned for early fall semester (1971-72). These recommendations will probably include expansion of courses and faculty in the area, a badly needed increase in equipment funding, and a more formalized cooperative program with other departments offering media material. Specifics and a timetable for achievement are still to be determined.

### 4. Delta Sigma Rho-Tau Kappa Alpha National Conference, Easter 1972

At the spring conference 1970, Delta Sigma Rho-Tau Kappa Alpha (national forensic society), the National Council accepted the invitation extended by the Department of Speech Communication at UNM to hold its annual conference on our campus during the Easter vacation 1972. Plans are already underway to take care of this very important educational activity. We expect some 70 colleges and universities throughout the United States to be present and about 400 students and faculty representatives to be on our campus for the conference. It is our hope, and the faculty of the department will make every effort, that this conference will be the most memorable in the history of the organization.



##### 5. Communication Disorders

The speech pathology and audiology program has experienced steady growth over the past few years, e.g., teaching faculty has increased from three in 1967 to the present staff of seven; a substantial increase and improvement in course offerings; and an overall upgrading of the clinical and research programs. With these improvements the program has reached a level of excellence attained by few master's degree programs in the country. However, to reach full potential far more University support is needed. The primary areas in which additional University support is sorely needed are in clinical and laboratory space and clinical and research equipment. Equipment needs are as pressing as space needs when viewing the future of the program.

##### SUMMARY

From the standpoint of faculty and curriculum the Department of Speech Communication is in excellent condition. If enrollment in the beginning courses in Speech Communication--101, 255 and 256--increase as anticipated, additional staff will be needed to teach ever-increasing sections. Additional faculty at the master's degree level will be sufficient to handle these courses.

Unfortunately, our total number of graduate assistants (five) has not increased in almost ten years, whereas our graduate student enrollment has increased four-fold. We have indicated previously that lack of sufficient assistantship aid has caused several outstanding faculty members to seek employment elsewhere. This trend will certainly continue unless we increase our number of graduate assistants.

The need for additional space and equipment for speech pathology and audiology has been stressed in the body of this report. The same is true of the field of telecommunication. Our present bare-bones equipment situation must be beefed up from year to year. With the student demand increasing in the telecommunication field, we will certainly have to add a member to the faculty in that area, probably for 1972-73. This individual could teach lower-division courses in the area and should also be qualified to service and maintain our equipment.

With several additions to our staff, we are beginning the 1971-72 year with an excellent faculty.

#### D. Appointments to Staff

John B. Grainger  
South Dakota School for the Deaf  
Clinical Supervisor, Audiology - September 1, 1970  
Clinical Supervisor and Lecturer in Audiology  
July 1, 1971

James L. Hoban  
University of Illinois  
Visiting Assistant Professor  
August 23, 1971

Maureen O'Connor  
Purdue University  
Clinical Supervisor and Lecturer in Speech Pathology  
August 23, 1971

Karen Peterson  
University of New Mexico  
Clinical Supervisor, Speech Pathology - September 1, 1970  
Clinical Supervisor and Lecturer in Speech Pathology  
July 1, 1971

Lawrence B. Rosenfeld  
Assistant Professor (Communication)  
Pennsylvania State University  
August 23, 1971

William J. Ryan  
Purdue University  
Assistant Professor (Voice Science)  
August 23, 1971

William M. Shimer  
Assistant Professor (Telecommunication)  
Northwestern University  
September 1, 1970

#### E. Separations from Staff

Kerstin Engstrom  
Clinical Supervisor, Speech Pathology  
June 14, 1971

Samuel G. Fletcher  
Professor (Voice Science)  
September 1, 1970

John A. Kline  
Assistant Professor (Communication)  
June 30, 1971

Marilyn J. VanGraber  
Assistant Professor  
June 30, 1971

## II. Composite of Information Requested on Individual Biographical Supplements

### 1. Advanced Study

- a. John A. Kline  
Ph.D. degree awarded August, 1970 from University of Iowa.
- b. William M. Shimer  
Course work toward Ph.D., Northwestern University. Ph.D. dissertation in progress.
- c. Ronald D. Snell  
Working on dissertation, Indiana University, Bloomington, Indiana.

### 2. Sabbaticals, leaves of absence, travel, etc.

- a. Judith W. Carey  
Traveled in Mexico for one month during summer of 1970.
- b. Wayne C. Eubank  
Traveled in Alaska, visiting the Department of Speech, University of Alaska, in Fairbanks.

### 3. New scholastic honors, fellowships, etc.

None.

### 4. Publications

- a. Fred M. Chreist  
"Notes on a Philosophy of Disordered Communication: Language Aspects" in The First Lincolnland Conference on Dialectology. University of Alabama: The University of Alabama Press, 1970. (pp. 17-34)
- b. Robert C. Dick  
Argumentation and Rational Debating. (William C. Brown Company Publishers). Final revised draft has been accepted by the editor and sent to Brown's production division for publication in the WCB Speech Communication Series.  
"Rhetoric of Ante-Bellum Black Separatism" (submitted to The Journal of Negro History).  
"The Forensics Program--Let's Make it Moderate" (submitted to The Kansas State Speech Journal).  
Review: PRACTICAL SPEECHMAKING by Ronald Brown and Ralph Nichols, EFFECTIVE SPEAKING by Arthur Kruger, and PERSPECTIVES ON ORAL COMMUNICATION by J. Vernon Jensen, for The Quarterly Journal of Speech (Feb. 1971).

4. Publications (cont'd)c. David J. Draper

In preparation: "Effects of Four Response-Contingent Consequences on Articulation" (to be submitted to J. Speech and Hearing Disorders).

d. Wayne C. Eubank

Article, "The Nixon Campaign, 1968," will be published this summer in a collection of twenty-one articles on current criticism and public address by Allen Press, Inc., Lawrence, Kansas, edited by Robert O. Weiss, DePauw Univ.

e. Gerald M. Goldhaber

"Listener Comprehension of Compressed Speech as a Function of the Academic Grade Level of the Subjects," Journal of Communication, 20:1, 167-173, June, 1970.

"A Content Analysis of Two Employment Manuals--with Implications for Theory X-Y Management Assumptions," Journal of Communication. (In press)

"The Relationship between Transactional Analysis and Theory X-Y." Transactional Analysis Journal. (In press)

f. Richard B. Hood

"Modifications in hearing aid selection procedures." J. Academy of Rehabilitative Audiology, 3, 7-10, 1970.

g. John A. Kline

"Indices of Orienting and Opinionated Statements in Problem-Solving Discussion," Speech Monographs, XXXVII, 4:282-286, November 1970.

h. Lloyd E. Lamb

Lamb, L. and Norris, T. Relative acoustic impedance measurement with mentally retarded children," Amer. J. Ment. Def., 1970, 51-56.

Fulton, R. and Lamb, L. "Acoustic impedance and tympanometry with the retarded. Parsons Research Center Reports, #1, Parsons, Kansas (December, 1970).

i. Bruce E. Porch

Porch, B. and Johnson, M. "Auditory-visual processing relationships associated with unilateral and bilateral brain damage." J. Speech and Hearing Research, 1970.

Porch, B. and Wertz, R. "Effect of auditory stimulation on the performance of adult aphasics." Cortex (In press).

Porch, Bruce. "Multidimensional scoring in aphasia testing," Journal of Speech and Hearing Research, 1970.

j. Marilyn J. VanGraber

"Perelman on Justice," TheoRhet (December 1970), 37-44.

"Are Speech Critics Racists?" Relevance (December 1970), pp. 1-2.

5. Other Research Projects or Creative Work in Progress or Completed

a. Judith W. Carey

Continued research and work on book about the 1969 New Mexico State Constitutional Convention to be published by the University of New Mexico Press.

Designed experimental study on sex of communicator and credibility.

b. Fred M. Chreist

Second Lincolnland Conference (in press).

"The New Mexico Cleft Palate Team: The First Ten Years" (in preparation). A report of the first cleft palate team in New Mexico from its origin to 1970. To be submitted in July, 1971. (In progress)

Motion picture (8 mm) The New Mexico Cleft Palate Team (In progress).

c. Robert C. Dick

Negotiating with Greenwood Publishing Corporation, Westport, Conn., for project to conduct further research on, and write a book on, the intellectual history of the Negro antebellum protest movement.

d. Wayne C. Eubank

Requested by an Ad Hoc Committee on the Aly Volume--Harold Barrett, Chairman, to contribute an essay on current rhetorical criticism. This volume will be published in honor of Prof. Bower Aly, distinguished scholar in rhetoric and public address, former chairman of the Department of Speech, University of Missouri and the University of Oregon. Dr. Cullen Owens will collaborate in this research project, which will be a case study of the speech delivered by President Tom Popejoy to the American Legion convention of the "disclaimer oath issue."

Member of revision team on text, Speech and Speakers by Charles Stewart.

e. Gerald M. Goldhaber

"Communication and Student Unrest: A Report to the President of UNM."

"The Effects of Speech Compression on Several Languages" sponsored by grant from UNM Research Allocations (\$1220).

Proposal submitted to Office of Education for research on communication and student unrest.

Negotiating two books (Interviewing and Business Communication) with Wordsworth Publishing Company.

Designing a Communication Training Program for Secretaries (to be used by University secretaries and Albuquerque Job Corps).

f. Richard B. Hood

Programmed auditory training for young deaf children.

Research in progress, funded (\$550) by UNM Research Allocations Committee.

## 5. Other Research Projects or Creative Work in Progress or Completed

- g. John A. Kline  
Some book reviews for Speech Teacher.  
"Some Language Correlates of Communicator Sensitivity," study underway in collaboration with Marilyn J. VanGraber.  
"Dogmatism and the Encoding of Evidence." (in progress)  
"Orientation and Consensus in Problem-Solving Discussion." (in progress)
- h. Lloyd E. Lamb  
Project Director, U. S. Office of Education (PL 85-926) Training Grant in Speech Pathology and Audiology.  
Continued as Project Director, R.S.A. Training Grant in Speech Pathology and Audiology.
- i. Cullen B. Owens  
Proposed chapter (case study) in collaboration with Dr. Wayne C. Eubank for a volume in honor of Dr. Bower Aly, distinguished scholar nearing retirement as Chairman of the Department of Speech, University of Oregon.
- j. Ronald D. Snell  
Rewriting an article for Indiana Magazine of History.
- k. Marilyn J. VanGraber  
Four chapters accepted for publication in two different books: one chapter in a book on rhetorical criticism; three chapters in a book on the New Mexico constitution.

## 6. Activities in Learned and Professional Societies

- a. Judith W. Carey  
Attended 1970 National Convention of Speech Communication Association.
- b. Fred M. Chreist  
Attended the American Speech and Hearing Association Convention, November, 1970.
- c. Robert C. Dick  
Presented a paper on Ante-Bellum Black Separatism at the Western Speech Association Convention, Portland, Oregon, November 25, 1970.  
Presented paper on value of moderation in forensics program at the Speech Communication Association Convention, New Orleans, Louisiana, December 28, 1970.  
Member, Membership Committee of The American Forensic Association.
- d. David J. Draper  
Presented paper at American Speech and Hearing Association convention, New York City, November 1970, "Effects of Consequences on Articulation."

## 6. Activities in Learned and Professional Societies

### e. Wayne C. Eubank

Attended Western Speech Association Convention in Portland, Oregon, November 1970 (member of the Legislative Assembly and the W.S.A. Executive Club).

Attended the Speech Communication Association convention in New Orleans, December 1970 (member of the Legislative Council).

Attended National Council meeting of Delta Sigma Rho-Tau Kappa Alpha in December 1970 (member of the National Council and Trustee).

### f. Gerald M. Goldhaber

Attended Western Speech Communication Association in Portland, Oregon, November 1970; delivered papers on Compressed Speech and Ego-Involvement. Elected Vice-Chairman (and Chairman-Elect) of Organizational-Interpersonal Communication Division.

Attended International Communication Association convention. Appointed Advertising Manager for the Journal of Communication; appointed to Nominating Committee for 1970-71; appointed to Project Exploration Committee.

### g. John A. Kline

Attended Speech Communication Association Convention in New Orleans, December 27-30, 1970; presented paper, "A Q-Analysis of Encoding Behavior in the Selection of Evidence."

Attended Central States Speech Association Convention in Cleveland, April 16-17, 1971; presented paper, "Understanding Communication through Games."

### h. Lloyd E. Lamb

Attended X International Congress of Audiology at Dallas, Texas, October 1970; presented paper "Acoustic Impedance and Tympanometry with the Retarded."

Attended American Speech and Hearing Association Convention, New York, November 1970; chairman, scientific session "Acoustic Impedance Measurement."

### i. Cullen B. Owens

Attended Western Speech Association convention in Portland, Oregon, November 1970.

### j. Bruce E. Porch

Editor, PICA Talk, Consulting Psychologist Press, Palo Alto, California.

### k. Harold O. Ried

Secretary-Treasurer North Central Conference on Summer Schools.

### l. Marilyn J. VanGraber

Paper read at the Speech Communication Association national convention, December 1970.



## 7. Other Professional Activities

- a. Judith W. Carey  
 Judging for high school speech contest.  
 Appeared on KUNM radio show to discuss university governance.
- b. Fred M. Chreist  
 Member, New Mexico Cleft Palate Team, Rehabilitation Center, Incorporated.  
 Director, University of New Mexico Voice Clinic.
- c. Robert C. Dick  
 Presented a lecture on The History of Negro Protest, at Del Norte High School, October 8, 1970.  
 Judged debate, oratory, and oral interpretation at the Annual City Speech Tournament, Highland High School, December 12, 1970.  
 Attended the Student-Faculty-Administration-Alumnus Conference on December 17, 1970, at Holiday Inn East, sponsored by the Committee on University Governance.  
 Planning forensics workshop for high school students, coaches and upper division-graduate students, June 21-July 14, 1971.  
 Judged debates at UNM Intercollegiate Invitational Tournament, Oct. 31 and November 1.
- d. Wayne C. Eubank  
 Many address on a local and state basis, e.g., service groups, high schools, state organizations.
- e. Gerald M. Goldhaber  
 Moderator of KUNM Radio Talk-Interview Weekly Show (one hour/week).  
 Speech to Del Norte High School on Campus Unrest.  
 Speech to Northeast Heights Optimist Club on Student Unrest.  
 Communication Consultant to New Mexico Bureau of Revenue.  
 Designed Communication Channel between UNM faculty and Governor King.
- f. Richard B. Hood  
 President, New Mexico Speech and Hearing Association, 1970-71.  
 Chairman, session on Auditory Rehabilitation: Preschool Programs. American Speech and Hearing Association convention, New York City, November 23, 1970.
- g. John A. Kline  
 Consulting with various organizations such as the New Mexico State Library Association for two days at Ghost Ranch in September, and seminars for groups such as New Mexico Credit Men's Association, and off-campus talks to organizations such as Campus Crusade for Christ, service organizations, etc.

## 7. Other Professional Activities

### h. Lloyd E. Lamb

Member, Committee on Regional Coordination, American Speech and Hearing Association.

Member, Committee on Revision of By-Laws, American Speech and Hearing Association.

### i. Bruce E. Porch

"Predicting Recovery from Stroke," Conference on Sensory Process, Menorah Medical Center, Kansas City, 1970.

### j. Marilyn J. VanGraber

Communication consultation: New Mexico Men's Credit Association.

## 8. Non-teaching University Service

### a. Dolores S. Butt

Director, Elks Cerebral Palsy Clinic

Member, Manzanita Center Committee

### b. Judith W. Carey

Member, Student Standards Committee.

Member Speech 101 Committee.

Faculty advisor to the Debate Council.

Assistant to the American Institute of Banking speech club.

### c. Fred M. Chreist

Member, Academic Freedom and Tenure Committee.

Member, Linguistics and Language Pedagogy Committee.

Faculty advisor.

Graduation marshal.

### d. Robert C. Dick

Member of the Culture and Communication Committee of the "Task Forces for Health Sciences."

Member of a committee for submitting a Ph.D. proposal in speech at UNM.

Member of Speech 255 Curriculum Committee.

Chairman of committee to consider revision of requirements for speech majors and minors.

Advisor for 33 University College Students (was also an advisor in the University during the two preceding academic semesters, but did not record this information on biographical record).

### e. David J. Draper

Committee work within the Speech Department and Speech Pathology division.

## 8. Non-teaching University Service

- f. Wayne C. Eubank  
Chairman, Department of Speech Communication.  
Faculty advisor to graduate students in General Speech.
- g. Gerald M. Goldhaber  
Administrate one research assistant.  
Ad Hoc Communication Consultant to University Governance Committee.  
Faculty representative to Graduate Council (GSA).  
Member Health Sciences Curriculum Committee (Communication and Culture).  
Member, Ph.D. Proposal Committee, Speech Department.  
Member, Speech Department Course-Instructor Evaluation Committee.  
Chairman, Speech 255 Committee.  
University College Advisor for 40 students.  
Chairman of one M.A. and two Ph.D. committees.
- h. John A. Kline  
Chairman of Speech 101, Fundamentals of Speech course.  
Chairman of departmental brochure committee, committee on departmental requirements.  
University College Advisor for 40 students.  
Faculty advisor to Interobang organization.
- i. Lloyd E. Lamb  
Director, Speech Pathology and Audiology
- j. Cullen B. Owens  
Various departmental committees.
- k. Ronald D. Shell  
Departmental committees:  
Chairman of the "Rap" Committee  
Member, Ph.D. Proposal Committee, Speech 101 Committee, Speech 256 Committee, and others.  
University College Advisor.
- l. Marilyn J. VanGraber  
Co-chairman, Arts & Sciences Faculty Advisory Committee, Subcommittee II.  
Chairman, two departmental committees, member two other committees.

## 9. Public Service

- a. Dolores S. Butt  
Member, Governor's Committee on Mental Retardation.

9. Public Service

- b. Fred M. Chreist  
Canterbury Chapel faculty member of board.
- c. Robert C. Dick  
Master of Ceremonies at a Democratic rally at Montgomery Park, October 11, 1970. (Coordinated program and introduced Joseph Montoya, Bruce King, et al.)
- d. Wayne C. Eubank  
Spoke before several church organizations.
- e. Gerald M. Goldhaber  
Communication Consultant for Albuquerque Community Council (helped design and plan conferences).
- f. John A. Kline  
Member of the Bethany Evangelical Covenant Church.
- g. Lloyd E. Lamb  
Soloist, First Methodist Church; member, church choir.

10. Personal Information

None.

The Report of the Division of Inter-American Affairs  
July 1, 1970 - June 30, 1971  
Martin C. Needler, Director

(Note: The director was on a one-semester sabbatical during the spring term of 1969-70, being replaced as acting director by Professor William J. Brisk. Apparently no annual report was filed covering the academic year 1969-70, so the present report will include information on that period.)

A. Significant developments

1. Degrees given during the report period were as follows:

1970	B. A.	5	M. A.	8
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1971	B. A.	15	M. A.	14
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2. Enrolment stood at 27 graduates and 25 undergraduates at the beginning of 1969-70 and 32 graduates and 33 undergraduates at the beginning of 1970-71.

3. It continued to be possible for a substantial proportion of both graduates and undergraduates to take part of their work in Latin America, in either Ecuador or Mexico.
4. The practice of having an acting director of the Division to serve during the summer session was formalized and a nominal honorarium provided. Winfield Burggraaff, visiting assistant professor of history, served as acting director during the summer of 1970.
5. Funds donated in memory of Dr. Fisher, used in awarding the Reginald Fisher prize to the outstanding graduating senior, were exhausted. However, the award will be continued as a book prize, without cost to the department, the books being donated by publishing companies.
6. The Division coordinated local arrangements for a film being made for the U.S. Intelligence Agency on Latin American Studies programs in American universities, to be shown in commercial movie theatres in Latin America to audiences estimated to total 80 million people. The film will focus on three institutions: UNM, the University of Texas, and the University of Florida. In serving its purpose of promoting good will toward the United States, the film is also likely to create good will and prestige for the university.

7. The Division co-sponsored a lecture, open to the public, by Dr. Rufo López-Fresquet of the University of the Pacific, former Minister of Finance of Cuba. Expenses were defrayed by the forming of a sort of mini-consortium consisting of the Graduate School, the Latin American Center, and the Department of Economics.
8. The Division co-sponsored a new interdisciplinary course, Latin American Studies 485 (History 485), a simulation of the General Assembly of the Organization of American States, taught by Germán Tjarks, visiting professor of history.

#### B. Problems, Plans, Prospects

1. The post of Assistant Director of the Division was established. This will relieve some of the burden that has fallen on the director with the establishment of the doctoral program in political science.
2. The Division is scheduled to move into less crowded quarters on the remodeled third floor of Mesa Vista Hall, where it will occupy rooms 3095-3100.
3. The availability of financing for graduate students reached its lowest point during the director's five years at the university. The Division has experienced especial difficulties here since, as it is not directly

engaged in teaching, it does not have the number of graduate assistantships given to departments enrolling a comparable number of graduate students. The political science department has about the same graduate enrollment as the Division, for example; it currently has five graduate assistantships compared to the Division's one. Formerly, this gap was made up partly by the Division's greater ability to capture graduate fellowships. The qualifications of its students were often higher than those entering other departments; it also had a greater number of Peace Corps returnees, who qualified for the Peace Corps preferential fellowships. In addition, many of its students qualified for graduate assistantships in related departments. As these opportunities have been eliminated or drastically reduced, a variety of expedients have been resorted to which only partially take up the slack. The department's one graduate assistantship has been split in two, one of the half-assistantships then being supplemented by work under the work-study program. A second work-study position is available; the \$2700 earmarked annually (see the Annual Report for 1968-69) for Latin American Studies scholarships, though dwindling in "purchasing power", is used to pay a couple of half- and a couple



of full tuitions; and small loans can be made from the Walter B. Fuente loan fund.

On this basis it is possible to get by, but hardly to maintain the Latin American Studies program as one of the centers of strength of the university's total effort, as Presidents Zimmerman and Popejoy intended.

4. Further attempts will be made to secure outside funding. An extremely modest beginning is reported below. Clearly, the times are not propitious for such efforts. Budgetary stringency has also meant that during 1970-71 the State Department and USIA did not send staff members to train as Latin American specialists, as they did, to the benefit of the program as well as themselves, from 1967 to 1970. However, two Air Force officers were assigned as students in the M.A. program in order to qualify as instructors in Air Force colleges.

#### C. Appointments and Separations

1. Barry Ames, a new Ph.D. from Stanford, was appointed assistant director of the Division (and assistant professor of political science) on a one-third time basis, to begin with the fall semester of 1971-72.
2. Miss Rosslyn Mynatt (subsequently to become Mrs. Smith) became department secretary effective September 1, 1970, replacing Mrs. Cathryn Reed.

D. Publications, Professional Activities, and Research Projects

1. The Division continued its series of Latin American reprints with the circulation to its national mailing list of reprints of articles by Professors Merckx and Ugalde of the Sociology Department, Professor Cohen of the Economics Department, and the director.
2. The professional activities of the department's only faculty member, the director, have been reported through the Political Science Department. However, it might be noted that during the report period the director served as chairman of the Steering Committee of the Consortium of Latin American Studies Programs, the organization of over 200 such programs at United States colleges and universities, and in that capacity participated in attempts to solve problems facing Latin American Studies programs nationally, and shared by the Division.
3. As part of this effort, the Division undertook two studies for CLASP, subsequently published by it, one a survey and analysis of the courses offered by Latin American Studies programs nationally, the other a listing of organizations that hire graduates in Latin American Studies. As well as their intrinsic usefulness, it should be noted that it was possible to employ UNM students to do research on both projects, disbursing to them CLASP funds of the minor but not unwelcome amount of about \$1000.

The Report of the Latin American Center  
July 1, 1970 - June 30, 1971  
Marshall R. Nason, Director

I. INTRODUCTION

In compliance with the directions set forth by the University Secretary in his memorandum of April 15, 1971, the following annual report is respectfully submitted.

Because this is the initial report of its kind to be submitted by the Latin American Center, it seems appropriate that it be largely historical and descriptive. It is hoped that this will impart a more comprehensive and balanced accounting of the Center's activities for the year 1970-71.

The Latin American Center was established at the University of New Mexico in 1965, largely as the result of the need for an administrative and coordinating mechanism for an NDEA Title VI area and language grant of \$25,000.00. Since that time, as will become evident throughout the following report, the Center has greatly expanded and diversified its activities.

By fiscal year 1970, the Center had been able to secure almost double (\$44,000.00) the Title VI monies it had started with four year earlier. Not only did this allow for greater support to graduate students in area and language studies related to Latin America, but it permitted considerable salary contributions to several social science departments with instruction in Latin American affairs.

Unfortunately, Congressional action in fiscal year 1971 resulted in severe cutbacks for Title VI appropriations - a total reduction from 15.8 million dollars to eight million. This meant that the Center has had to discontinue its periodic salary support to the departments of economics, sociology, history, Portuguese, and political science. But prospects for restoration of funds to previous high levels appear likely if the mood of Congress can be assessed correctly.

One of the contributions of the Latin American Center to the University that may be considered to be of highly significant value is the assistance it has provided in the acquisition of library materials for the Latin American collection. The aggregate funds (from all sources) that have been allocated for library purchases have exceeded an average of \$25,000.00 per year.

A primary concern of the Center has been the support provided students and faculty engaged in the social sciences who require the development of fluency in Spanish and Portuguese in order to teach and conduct research. This service has been made possible in great part by the NDEA Title VI funds which must be spent on language-related projects.

It should be mentioned that since the establishment of the Center in 1965, graduate degree programs with Latin American concentrations have more than doubled; the number of staff with professional competence in Latin American fields has increased by more than fifty percent; graduate enrollment in Latin American

content courses has been multiplied by a factor of six; and the number of graduate degrees awarded in Latin American related fields has grown fivefold.

One other benefit derived under the auspices of the Center has been the creation of the Andean Study and Research Center at Quito, Ecuador. The Center has been in operation as of this writing for three full years. And it has furnished UNM students an opportunity to live and study in a Latin American country exhibiting a truly unique cultural atmosphere.

Finally, it should be noted that the Latin American Center has been domiciled in the Modern Languages Department facility because of its exceptionally close contact with language and language-related programs. As of the end of the 1970-71 academic year, the Center has transferred its offices along with those of Modern Languages to New Ortega Hall.

## II. SUMMARY OF ACTIVITIES, 1970-71

Although the Latin American Language and Area Center has changed its name to a more abbreviated title, the Latin American Center, its functions have remained essentially the same. Basically, they can be divided into four major programs:

- A. The Latin American Center
- B. The Andean Study and Research Center
- C. The Ibero-American Studies Doctoral Program

D. Title VI NDFL Fellowship Program

E. Ancillary Activities, including:

1. Administration of the Fulbright-Hays Graduate Student Fellowship Program for Latin America
2. Administration of the Fulbright-Hays Faculty Fellowship Program
3. Administration of special projects such as the Intensive Summer Language Institute in Portuguese
4. The newly assumed responsibility (as of fall, 1971) for the Seminars on Higher Education in the Americas

A. The Latin American Center

The Center is an administrative superstructure partially funded under NDEA Title VI and whose function it is to coordinate the implementation of all activities related to Latin American area studies and to provide necessary technical services in connection with the University's total program in that field. The extent of federal support (including fellowship assistance) for the operation year 1970-71 was \$66,068.00.\*

Responsibilities of the Center include the following:

1. Preparation of lengthy project proposals soliciting continued support of the UNM program. These involved complete histories and surveys of all instructional, research, and ancillary activities relating to the

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\*Of this amount, \$2,268.00 were used from Fulbright-Hays funds received in June 1969 to be used over an eighteen month period.

several disciplines in the Latin American language and area field, as well as corresponding institutional cost accounting.

2. Preparation of technical reports to furnish evidence of University compliance with contractual obligations, terms, and guidelines of grants.
3. Preparation of surveys and status reports for various domestic, foreign and international agencies and organizations including the Organization of American States, the United States Information Agency, the Social Sciences Research Council, the Latin American Studies Association, Education and World Affairs, and several Latin American embassies.
4. Allocation of salary monies--to the extent possible in terms of budgetary provisions--for the several disciplines engaged in Latin American instruction.
5. Purchase of Latin American holdings for UNM libraries and actual processing of orders in the field of literature.
6. Fiscal support of bibliographical and technical processing services related to the Latin American collection in Zimmerman Library.
7. Organization and administration of the annual Latin American lecture series including travel arrangements, housing, honoraria, and so forth.

8. Representation of the University of New Mexico at national meetings of Language and Area directors; service on consultancy panels invoked by HEW for policy decisions.
9. Normal University administrative procedures including coordination of instructional programs, committee service, fiscal and budgetary administration, submission of catalog materials, etc.
10. Retrieval, accumulation, and analysis of data concerning Latin American studies at the University.

B. The Andean Study and Research Center

The Andean Center is an extension of the University proper in Quito, Ecuador. Its principal goal is to provide a logistical and instructional support facility to permit students from the University who are interested in Latin American affairs to pursue their studies in a Latin American country. In addition, the Center allows students to continue their academic pursuits uninterruptedly, accumulating accepted credit for course work taken.

The activities of the Andean Center are the following:

1. Coordination and staffing of the instructional program in conjunction with the several departments on the UNM Albuquerque campus and available host country expertise.
2. Preparation and dissemination of local and national publicity concerning the Andean Center program including



preparation and circulation of brochures and posters, formal and informal talks, and other public relations activities.

3. Recruitment, advisement and registration of students enrolling for the program.
4. Processing of student enrollees including passport arrangements; negotiations with representatives of the Ecuadorean government for courtesy visas; medical and immunizational concerns, and advisement and counseling.
5. Planning and implementation of orientation programs for enrollees.
6. Budget administration.
7. Logistics: procurement, packaging, and shipping of requisite supplies and education materials to Ecuador.
8. Transportation arrangements for international and domestic travel.
9. Maintenance of constant communication on policy matters with Resident Directors in Quito.
10. Procurement and administration of student assistance program for enrollees including scholarships and work-study funds.
11. Normal administrative functions including large amounts of correspondence related to student and institutional inquiries, the usual conduct of business between Albuquerque and Quito; fiscal management.

12. Curriculum development and enlargement.
13. Recruitment of Ecuadorean faculty.
14. Developmental activities aimed largely at acquisition of additional sources of support for the Center and program.

C. Ibero-American Studies Program

This is an interdisciplinary doctoral program which focuses on the study of Spanish and Portuguese American languages, literature and history--of both the colonial and national periods. The functions of the program include the following:

1. Administration of the interdisciplinary program, coordinating the efforts of the Modern Language and History departments appropriately.
2. Receipt and processing of numerous student inquiries; preparation of applications for grants-in-aid; processing of applications for admission to the program.
3. Direction and counseling of more than twenty doctoral candidates in the field.
4. Routine faculty duties as offering of specialized seminars, direction of dissertations, conduct of interdepartmental seminars, and so forth.
5. Recommendations and placement.
6. Coordination of instruction program; preparation, scheduling, and proctoring of comprehensive doctoral examinations.

D. Title VI NDFL Fellowships

The Title VI NDFL Fellowships are funded and supported by the U.S. Department of Health, Education and Welfare, Office of Education, to promote language and area studies by interested students in those parts of the world considered to be critical to United States interests and security abroad.

The activities of the Latin American Center as they pertain to the administration of the fellowships are the following:

1. Preparation of project proposals to secure annual renewal grants.
2. Preparation and dissemination of national advertisements of fellowship opportunities.
3. Processing of large amount of correspondence in response to student inquiries as to availability of grants.
4. Receipt, processing and evaluation of all documentation submitted by applicants.
5. Screening and selection of grantees in conjunction with an ad hoc committee established for that purpose.
6. Notification of fellowship recipients and preparation and submission of appropriate data to Office of Education, Title VI.
7. General administration of grants such as student consultations, transmission of advices from Office of Education, preparation and filing of intermediate and terminal reports, and fulfillment of all other contrac-

tual obligations specified under the terms of the grant.

E. Ancillary Activities

These are duties which fall under the jurisdiction of the Latin American Center but which are not primary functions. They include:

1. Faculty and student Fulbright-Hays fellowships for overseas research:

These are no longer administered on basis of a direct relationship between the applicant and the federal government but rather must be sought through an institutional proposal prepared by this office. Once the awards are made, the Center assumes continuing responsibility for administration of the grants on a contractual arrangement. This means that the recipients' periodic stipends, their progress, and all other logistical matters must be handled through this office.

2. Intensive Summer Portuguese Institutes:

The program is financed by Title VI NDFL funds. This office contributed support services in the way of clerical and secretarial assistance and organizational activities for the summer of 1970 only.

3. Seminars on Higher Education in the Americas:

The Director of the Latin American Center was requested by the U.S. Department of State and the Conference Board

of Associated Research Councils to participate as a representative of the University in an exploratory trip to Argentina, Brazil, Colombia, and Uruguay. The purpose of the trip was twofold: one, to evaluate the effectiveness of the previous seminars on the basis of personal interviews with former participants and, two, to identify potential parties interested in and qualified to attend the eleventh inter-American Seminar on Higher Education. In addition, the Director attended portions of the eleventh Seminar held at UNM and in Washington, D.C.

### III. SUMMARY OF NEW DEVELOPMENTS, 1970-71

1. Change of office name from Language and Area Center for Latin America to Latin American Center.
2. Enlargement of Andean Center curriculum and addition of more Ecuadorean faculty.
3. Scheduling and proctoring of doctoral comprehensive examinations in history for Ibero-American Ph.D. candidates.

### IV. PLANS FOR FUTURE ACTIVITIES

As the activities in which the Center is already engaged are extensive and require actually more time than the current full-time Director and part-time Secretary can manage adequately,

plans for further development in the 1971-72 year have of necessity been somewhat modest. They include:

1. Administration of the Seminars on Higher Education in the Americas. This is a welcome addition to an already heavy work schedule as it will be a definite asset to the prestige of the University and its work in Latin American affairs.
2. Addition of Personnel:
  - a. the part-time Secretary will go on a full-time basis as of July 1, 1971.
  - b. A Special Assistant to the Director will be hired on a half-time basis beginning July 1, 1971. His activities will include providing support to the Director in most phases of the administration of the Center with special emphasis on coordinating logistical support for the Andean Center and seeking new and expanded grants.

#### V. CONCLUSIONS

For the sake of clarity and expeditious reading, the foregoing has been presented in outline form. However, such an abbreviated description of the Center's activities in no way can convey the full impact of its activities and the pressures under which it operates. For example, the Center has been responsible for bringing hundreds of thousand of dollars in federal grants to the

University and the surrounding community. And, as a consequence, the University of New Mexico's Latin American Center now stands as the second largest in enrollment\* of all federally supported graduate centers--exceeded only by that of the larger University of Texas.

In addition, the Center is responsible for four separate budgets, and seven different programs and projects. This situation requires a high degree of administrative dexterity and creates numerous pressures and demands. The addition of an assistant to the Director and the creation of a full-time position for the Secretary will alleviate many of the burdens that were heretofore distributed only between the Director and his part-time Secretary. Finally, it should be mentioned that great amounts of time and effort are devoted by the Director and part-time Secretary in dealing with students arranging to study at the Andean Center and in counseling doctoral candidates. The effort involved especially cannot be quantified and adequately described in outline form--as is true, also, of the public, institutional, and foundation demands that are placed on the Center staff.

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\*According to HEW statistics issued in 1970-71.

THE SCHOOL OF BUSINESS AND ADMINISTRATIVE SCIENCES  
ANNUAL REPORT FOR THE FISCAL YEAR ENDING  
JUNE 30, 1971

Robert R. Rehder, Dean

School of Business and Administrative Sciences Activities During the  
Academic Year 1970-71

During the academic year ending June 30, 1971, the School of Business continued to discuss and update its Strategic Plan, a recent copy of which is attached.

During the year a new School of Business and Administrative Sciences' Foundation was developed with the following Board members: Max Flatow, Architect, Chairman; Carroll Lee, Comptroller UNM, Vice-Chairman; Gordon Paul, Partner, Peat, Marwick, Mitchell, Secretary-Treasurer; Robert Nordhaus, President Sandia Peak Tramway; George Carmack, Editor, Albuquerque Tribune; Benigo Hernandez, Attorney; Henry Anderson, Connecticut Mutual Life Insurance; Dale Bellamah, Bellamah Homes; and Ray Gunderson, Bond-Gunderson Mercantile Co., Grants, New Mexico. The School of Business and Administrative Sciences' Foundation was chartered as a non-profit trust giving tax exempt status to gifts made to the Foundation. The Foundation has already played a significant role in attracting funds to the School, and in the following year, with the initiation of the School's new Affiliate Program, the Foundation will continue to play an increasingly important role in the School's development.

With the assistance of the School's Advisory Council a new Internship Program was developed with the management community. This new program allows a young man to work up to 20 hours a week during his senior year while receiving up to three hours of credit per semester through a practicum which he takes in the School. This program has been very well received by our business community as it gives them a chance to screen and employ outstanding young talent from our School prior to their being hired by out-of-state recruiters in the spring. While the School had only planned on five internships during its pilot year, we already have ten internships made available by many organizations within the State. The Internship Program will, of course, also play an important part in allowing our fifth-year MBA students to finance this final year of their MBA education.



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The School was very pleased to receive, during the year, a major contribution from the First National Bank in Albuquerque for the refurbishing and furnishing of the School's new Executive Development Center. The \$10,000 gift made possible the refurbishing of the Center's two major rooms, its seminar room and its colloquium room, which will be used not only for the Executive Program, but for the School's special Organizational Development programs, faculty and student meetings, as well as regular class seminars throughout the year. The Executive Program, which was introduced last year, is already considerably over-subscribed. The management community's response to this three-phase program has been most enthusiastic. The management community's strong support of this major new program of the School, along with the financial support which they have provided, is a strong and important indicator of the growing professional relationship between the School and the State-wide management community.

A new Minority Management Advisory Committee was formed this year in order to develop a meaningful working relationship with the minority management community in the development of our programs and minority management leadership. A list of the members follows: Dr. Manuel Ferran; Mr. Ted Ortiz, Taos, N.M.; Mr. Alex Mercure, El Rito, N.M., President of National Advisory Council on Minority Enterprises; Mr. Al Valdez, Vice President, Albuquerque Federal Savings and Loan; Mr. Carlos Pacheco, Vice President, Albuquerque National Bank; Mr. Stephen Torres, Regent, New Mexico Tech., Socorro, N.M.; Mr. Ed Romero, Regional Director Family Record Plan; Mr. Lawrence Eichwald, CAMBIO; and Mr. Frank Gallegos, Coordinator, CAMBIO.

During this last academic year the faculty also decided to seek accreditation at the graduate level from the American Association of Collegiate Schools of Business. The School is now in the process of preparing a preliminary application for the academic year 1971-72 in preparation for a first visit by an academic consultant. Plans call for a final visitation and decision to be made by the American Association of Collegiate Schools of Business during the 1972-73 academic year. The

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School of Business at the University of New Mexico will be the first school to be accredited at the graduate level within the State. At the present time there are no schools of business in the State of New Mexico, public or private, accredited at either the graduate or the undergraduate level.

During this last academic year the faculty of our School updated its Ph.D. program which was previously approved by the University of New Mexico for submission to the Board of Educational Finance. Hearings on this application will be held this September. The Doctoral Program is described separately at the end of the School's Strategic Plan, a copy of which is attached. The doctoral program in Business and Administrative Sciences will be the first in New Mexico. The faculty is currently developing a new series of courses in small business and venture capital management. Last year a new course offering in small business management was offered for the first time and currently a new course for minority venture capital management is in the planning stage.

The School continued during the year its Top Management Briefings as well as its series of Organizational Development programs for business and professional associations within the State. In addition, it instigated, last year, a new program for Young Executives similar to the Top Management Briefings.

The School's faculty, with the strong support from the School's Advisory Council, will launch, this fall, its new Affiliate Program, a copy of which is attached. The Affiliate Program is designed to create and sustain a mutually beneficial relationship between the School of Business and Administrative Sciences and the professional management community. Affiliate membership is available to all corporate donors who contribute \$1,000 or more annually and to individual donors who contribute \$200 or more to the School. The Advisory Council and faculty of the School have established a goal of 25 affiliates for the School's 25th Anniversary which falls within the 1972-73 academic year. Although the Affiliates Program will not be officially opened until September, the School has already received several Affiliate memberships.

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The faculty of the School of Business has also entered into a planning study with the School of Medicine in order to develop a MBA degree program with special emphasis on medical systems administration. It is hoped that this program, which is similar to programs which have been previously worked out with the schools of Engineering, Law, Pharmacy, Arts and Sciences, will be completed and ready for applicants for the 1971-72 academic year.

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## Enrollment and Degree Statistics

Table I

Students Enrolled in the  
School of Business and Graduate School

	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969	1969- 1970	1970- 1971
School of Business and Administrative Sciences	313	314	370	382	402	430	538
Graduate School	110	122	137	122	114	107	117

Table II

Student Enrollment and  
Credit Hours in BA Courses

	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969	1969- 1970	1970- 1971
Student Enrollment	1740	2063	2238	2317	1958	2250	2764
Credit Hours	5205	6183	7068	7247	6208	7103	8727

Table III

BBA and Masters Graduates

	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969	1969- 1970	1970- 1971
BBA	87	73	104	91	117	73	131
Masters	11	8	30	31	21	27	29

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**Appointments to Staff:**

Mr. Stephen Stoller was appointed effective August 23, 1971, Assistant Professor in the Organizational Economics and Ecology area. He is joining us from the University of California, Berkeley, where he received his Ph.D. in 1971.

Mr. Donald Simonson was appointed effective August 23, 1971, Assistant Professor in the area of Finance. He is joining us from Michigan University where he is expecting his Ph.D. in 1972.

**Separations from Staff:**

Assistant Professor James A. Fitzsimmons resigned effective June, 1971 in order to accept an appointment at another institution.

The Internship Program  
School of Business and Administrative Sciences  
The University of New Mexico

The School, in establishing the Internship Program, used the following guidelines:

1. The Internship Program will be a meaningful experience between the Intern and a participating business, whereby the Intern is given the opportunity to observe and experience (at least for part of the time that he spends "on the job") the functionings of management; to the end that the Intern will gain insight into the inter-relationship between his course work and the practical application of that course work.

2. To assure the success of the Program, and recognizing that many questions relating to the Program cannot be answered until the Program has been operating for a period of time, the School, during the first year of operation of the Program, will limit the Program to between six and twelve students and a similar number of businesses.

3. Participating businesses will be selected on the advice of the Advisory Council. It is submitted that the success of the Program will in large measure be determined by the extent to which a participating business adheres to the spirit of the Program. Thus the School suggests the following guidelines be used by the Advisory Council in selecting a participating business:

a. That the major consideration is the understanding and acceptance by the management of the participating business of the philosophy of the Program, and that such management will knowingly act in relation to the Intern in a manner consistent with that philosophy.

b. That no less than 20% of the Intern's time be spent as an observer of management functioning in a management capacity. (It is recognized that the balance of the Intern's time will be spent in activities which management feels best suits its interests in the light of the Intern's background, ability, etc.)

c. That the employment relationship between the participating business and the Intern be for one year and be full-time during the summer months and part-time (say 20 hours a week) during the normal school year.

d. That beyond the general criteria mentioned in a, b and c above, the School will not be involved in other "usual terms and conditions of employment," this being a matter solely between the participating business and the Intern.

e. That at the end of one year of relationship between the participating business and the Intern, the participating business will fill out a questionnaire (to be created by the School) and forward the same to the School.

4. Students shall be selected by the School in the following manner:

a. Existence of the Program shall be made known to all students in the School by announcements, posting, etc.

b. When the specific business concerns which are participating are known, the students shall be notified.

c. This notification shall indicate that, within broad general outlines, the Internship with the banks would most likely interest finance majors, etc.

d. Students interested in participating shall then see the nominal heads of the various areas of study who shall make the student selection. Such selection shall give preference to top graduate students.

e. It will be the sole responsibility of the Intern to maintain the employment relationship between himself and the participating business, and to assure that the relationship stays within the philosophy of the Internship Program.

5. The School will give up to six hours of course credit to an Intern who meets the following criteria:

a. That the involvement of the Intern and the participating business be for a one-year period--full-time during the summer, part-time during the normal school year.

b. That the questionnaire to be answered by the participating business indicates a satisfactory performance by the Intern.

c. That the Intern present a paper satisfactory to the School which will cover the relevancy of his period of Internship with his normal course material.

6. At the end of the first year the School and the Advisory Council will evaluate the Program.

At that time consideration will be given to making any necessary changes, additions, etc. For example, consideration might well be given to formalizing a participating business' involvement in the Program by establishing "The AEC Corporation Internship," and publicizing that fact, as well as the criteria for the same, in appropriate School publications.

A STRATEGIC PLAN FOR

THE SCHOOL OF BUSINESS AND ADMINISTRATIVE SCIENCES

THE UNIVERSITY OF NEW MEXICO



THE SCHOOL OF BUSINESS AND ADMINISTRATIVE SCIENCES  
THE UNIVERSITY OF NEW MEXICO

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# I. The Objectives of the School of Business and Administrative Sciences

The School of Business and Administrative Sciences at the University of New Mexico has as its fundamental objective to contribute to the development of effective and responsible organizational leadership which is necessary to meet the complex social-economic problems confronting our state, nation, and the world.

Ours is the unprepared society. Faced with unprecedented social and technical change, we are inadequately equipped emotionally and intellectually. Despite the great advances of the biological, physical, social, and management sciences, we currently lack the knowledge and the leadership to anticipate and to adapt to the rate and magnitude of changes we meet. While American management might well congratulate itself for its key role in winning the technological development race with Western and Eastern Europe, it may well be losing the human race if our nation's leadership is unable and/or unwilling to confront the world's mounting social-economic problems. Herein lies a major challenge to today's managers and management educators charged with the development of tomorrow's leadership. The scope of the local, national, and international social problems we face clearly demands unique combinations of organized high-talent human resources. A manager's responsibility to affect these problems lies in its concepts, skills, and creative leadership of organizations whose power and resources go far beyond his or any single individual's capability.

American management's recognition of these responsibilities and its new and broader perception of the interrelationships between both social and economic development is already evident. With the stimulus of new levels of public concern and government regulatory activity, we already find private sector management deeply involved in and with the public sector.

Urban development, with its problems of pollution, transportation, and under-employment are being viewed as opportunities for both profit and social contribution. Joint ventures of corporations with international, national, state, and local governments involving every aspect of our most difficult unsolved social problems are now almost commonplace. More and more business managers are examining the nature of their cooperative role in society's progress.

The implications for schools of business administration of this new and greatly broadened role of management in meeting society's formidable social-economic development problems are very great. With the exception of several professional graduate schools, few, if any, of the nation's hundreds of programs in business administration have risen or even recognized the incredible responsibility with which they are best equipped to cope. As Professor Nevitt Sanford of Stanford University concluded after several major studies of American Higher Education:

"We are not proceeding in a way that will give us excellence in performance on the job or in life. Our student-slaves might be suitable technicians in the future, but it is a little hard to imagine their becoming leaders of society. . . or well-developed individuals."

The University of New Mexico's School of Business and Administrative Sciences fully believes that the achievement of its goal, and the fulfillment of its responsibility, the development of effective and responsible organizational leadership, necessitates bold new concepts and creative programs of professional management education.

## II. The Need For Creative Professional Management Education

In considering the gravity of the social-economic problems previously mentioned, and the resultant changing intellectual and value needs of management, there are certain basic premises which we believe provide direction and substantial support for implementing in the School of Business and Administrative Sciences a new course of professional management education.

- A. "Excellence" in professional management education is abetting individual intellectual and moral self-fulfillment. The pursuit of "excellence" in higher education is too often subject-matter centered with rigid standards of performance which foster conformity and feelings of inadequacy within the vast majority of students. Seldom has the student's individual fulfillment been a central measure of a university's achievement of "excellence."

Professional management education must pioneer student-centered programs designed to establish "life styles" of balanced individual growth and self-fulfillment within an intellectual framework which uniquely characterizes man at his best, creatively equipped to respond to the challenges of modern life, and morally able to recognize his human responsibilities.

While graduate schools of business and the learning industry have long led in new applications of learning theory and educational technology with the case method, computer assisted instruction, simulation and gaming and laboratory training, there is a need to integrate these concepts and tools through

the design of student-centered management education systems relating multi-media inputs to achieve more carefully defined behavioral goals. The strategies we propose involve the selection or design of modular instructional activities which include whichever method/media are established through experimentation to be most effective in the attainment of specific behavioral objectives. The method/media mix for any given sequence of objectives may include programmed instruction, laboratory experimentation, single concept films, tutorials, field research, learning cells, computer gaming, and simulations. Team teaching is particularly relevant to curriculum such as ours which is based upon a systems conceptual framework to foster the integration of subdisciplines, professional skills and values.

This student-centered curriculum is specifically designed to accomodate to individual differences in learning experiences, capabilities, and areas of interest. It is, therefore, self-directed and self-paced to insure the student's interest and facilitate his self-development essential to launch a lifetime of balanced growth. The key to such a program is a dynamic curriculum which responds to the direction of the student by being a flexible and relevant learning experience.

B. Foundations For A Lifetime of Balanced Growth

1. Preprofessional Education in the Arts and Sciences

A well-integrated knowledge of the Humanities, Physical, Biological, and Social Sciences provides an intellectual and moral foundation which is essential to the balanced development of individual and professional values, concepts, and skills. A preprofessional liberal education in the Arts and Sciences is essential for several reasons. First, it insures the student adequate time to explore the vast range of human knowledge, experience, and values and relate his personal preferences and talents to the constantly expanding life-roles open to him. Second, and of equal importance, a preprofessional liberal education fosters a balanced growth of individuality--often defined as "wisdom."

Crawford H. Greenewalt, while president of the DuPont Corporation, pointed out the inadequacies of his own highly specialized science curriculum when he remarked:

"The basic requirement of executive capacity is the ability to create a harmonious whole out of what the academic world calls dissimilar disciplines."

The humanities, which provide comparative human values and historical perspectives on the sciences and social sciences are essential to a future manager's balanced growth. The humanities deal with the whole; intellect, emotions and values are inseparable. Without adequate time for the study of self,

historical and contemporary society, and their interrelationship; future management's judgment will be locked in the same technical-professional mental groove which has recently been the subject of rising national criticism and genuine concern. This compartmentalized approach, exemplified by Dr. Greenewalt's University experience, has long influenced the physical, biological, and social sciences which themselves are now undergoing a growing wholistic and interdisciplinary movement well evidenced by Systems theory, Cybernetics, and Ecology.

While it is no longer feasible for a scholar to master all of the concepts and analytical techniques composing the basic and social sciences, it is all the more important that he gain an understanding of the basic interrelationships and scientific methods of analysis underlying these ever-expanding disciplines. The precise, mathematical language of science provides a way of communicating and reasoning essential for the basic social and administrative sciences and those future managers who must intelligently assess the new technologies and evaluate proposals such changes will precipitate.

While the study of the well-established basic sciences needs little justification for future American managers who must continue to make possible their nation's unprecedented technological progress, the relevancy of the social sciences has been less understood. Recently, however, man is beginning to comprehend how his technological innovations are producing

social repercussions which spread wave-like throughout his environment. The increasing influence of the social sciences evidenced within the public and private sector during the last twenty years parallels the development of empirical, scientific procedures in the social sciences which have produced replicable findings that both command respect and have pragmatic applications. The well-established government economic controls developed from Keynesian-type theory are now being joined by more comprehensive efforts based on behavioral science findings and recognizing both social and economic change. Again the quantitative, systems and information sciences have made possible linking in complex computer models the many important new findings from the social and basic sciences which facilitate the simulation of actual social-economic systems. In addition, the social scientist can now for the first time test these models in the real world because of the computer's enormous capacity for collecting and processing data.

Thus, an understanding of the theory and scientific methods employed by the social sciences is essential to a future manager's ability to understand, predict, and hence coordinate the development of complex social-technical systems be it a corporation, state, or international organization.



## 2. Professional Education: Accelerating Changes and Responsibilities

Management, according to A. Lawrence Lowell, is the oldest of the arts and the youngest of the professions. In many ways this is indeed fortunate as a young, unstructured profession may hopefully more easily adapt to the accelerating changes in intellectual content, societal role and challenges that have already taken place during its short lifetime and will undoubtedly continue. Management which evolved as an art over centuries, is rich in history, description, and normative content, but its development of an empirical body of knowledge, essential to a profession, has taken place mainly during the last half century. Therefore, there has been a parallel development of two programs of instruction, practitioner-oriented professional schools emphasizing skills and attitudes, and the research-oriented graduate schools stressing the scientific, analytical mode. Even within those schools stressing the latter mode there has been little integration between the quantitative management sciences and the behavioral sciences. There have been few empirical studies and as yet little understanding of the effects of such widely used management science tools as P.E.R.T. and P.P.B.S. on organization structure and directly related human performance, satisfaction and development.

As the name of the new School was intended to define, the School of Business and Administrative Sciences at the University of New Mexico is committed to both an effective integration between the administrative sciences and management sciences, with the professional skills and attitudes essential for future management's effective and responsible leadership. We will, therefore, emphasize and develop in our curricula integrating conceptual frameworks such as general systems theory which facilitates the linking of both normative objective functions with interdisciplinary contributions from the physical, biological, and social sciences. Team teaching, computer simulations, in-depth tutorials, field research and clinical programs may emerge as representative means to achieve more effective two-way theoretical and professional skill integration for the management scholar and practitioner throughout his professional career.

Professional management education can no longer fail to recognize and convey how an executive's decisions reach beyond his particular organization and effect socially as well as economically his state, nation, and world. There is not only a need to establish a professional code of ethics, but also a clear understanding of how the well-being of an organization is dependent upon the health and effectiveness of all social institutions. Here again, management's increasing involvements within health, education, and government organizations are demanding new and broader goals and measures. How do you measure

the effectiveness of a public health system, a university, a corporation's contribution to the development of its employees and community? While economic measures have long been relied on as our major indicators of public and private organization value and effectiveness, contemporary society is increasingly concerned with the quality of human lives. The mere quantification of value functions such as profit and loss bookkeeping can lead management to overlook morale, loyalty, morality, and the critical but unmeasured human assets simply because of the clarity and apparent objectivity of quantitatively measurable goals. Neither the nation nor its public and private institutions have adequate definitions of social health, without which it is most difficult to develop measures of social progress or retrogression.

Few managers today can long remain unaware of the millions of underprivileged in our own country and the challenge and opportunity this presents to them. Fewer still, as managers, are aware of a growing tidal wave of hungry and starving people rising within the underdeveloped countries of the world. What are the needs of today's management scholars who will assume in the 1980's positions of organizational leadership? They will cope with the problems and obligations of unprecedented affluence in the post-industrial underdeveloped world. These are the urgent problems and questions which graduate management education must now recognize as relevant and confront with research and study.

While the above, in total, represents a formidable challenge to professional management education, the School fully intends to join those schools which are making meaningful contributions to the development of effective and responsible organizational leadership, necessary to meet the complex social-economic problems confronting our state, nation, and world.

### III. The Graduate Program

#### A. The "three-two" Master of Business Administration Program<sup>1</sup>

Following lengthy consideration of the previously cited special needs and goals of professional management education, the faculty of the new School of Business and Administrative Sciences studied and discussed alternate strategies by which these needs could best be achieved. The faculty concluded that a combination of a preprofessional program in the Arts and Sciences and a professional graduate program of two years duration leading to the Master of Business Administration degree was essential to the achievement of its management development goals.

The subsequent question was then, of course, how to further develop our "two-year" MBA degree program and broaden its availability to a maximum number of students now enrolled in the Bachelor of Business Administration degree program.

In the process of answering this question, institutional precedents were sought and Dartmouth's Amos Tuck School of Business, founded in 1900, and the first professional graduate school of business presented a most attractive solution. Its "three-two" MBA program remains highly regarded and was most recently adopted by the new Graduate School of Administration at the Irvine campus of the University of California. This program facilitates the undergraduate's achievement of both a Bachelor of Arts or Science degree and a professional MBA degree during a five-year course of study.

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<sup>1</sup> Appendix A is a conceptual presentation of the 3-2 Program as presently conceived.

As envisioned, the two-year MBA program may be entered by those seniors who have satisfactorily completed the preprofessional courses during their first three years at the University of New Mexico. At the completion of their first year in the MBA program, they could receive a wide variety of undergraduate degrees such as a B.A. in Economics or a Bachelor of University Studies degree depending upon their preferences, capabilities, and curriculum planning. Other University of New Mexico students and transfer students would be required, as currently, to have satisfactorily completed their Bachelor's degree prior to being eligible for admission to the regular two-year Master of Business Administration Degree Program.

There are many additional factors which lend support to the proposed "three-two" MBA program. The Bachelor of Business Administration degree has not significantly improved its image nationally since its negative sanction by the Carnegie and Ford Foundation Studies ten years ago, where the MBA degree has developed international recognition and emulation. This degree gap is further reflected in the significant and widening salary differential between the demand for the BBA and MBA degree holders.<sup>2</sup> Recognizing the limits of the BBA, the nation's major graduate schools of business openly discriminate against those applicants holding a BBA relative to other arts and sciences degrees.

As can be seen from Appendix B the state has experienced a rapid increase in BBA Programs and BBA recipients during the years 1952-1968.

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<sup>2</sup>See Appendix B for supporting documents.

While we have at UNM an increasing number of BBA candidates, we have had a decreasing cost/student credit hour. In addition, the SBAS has one of the highest student/faculty ratios in the University, and our part-time faculty has rapidly increased as a percentage of full-time faculty. The SBAS now has the lowest cost/student credit hour expense in the University, if not in the State. This deteriorating BBA program support has been paralleled within the other New Mexico public schools of Business. This is again reflected in the fact that New Mexico is one of the last 6 states in the union with not ONE school of business accredited by the AACSB. The Voris Review of our accreditation status (Appendix D) also reinforces the lack of adequate financial support for the SBAS program.<sup>3</sup>

The School fully recognizes that several transition years will be involved in the upgrading of its current BBA program to the MBA level, as well as a need to continue to provide, at the undergraduate level, several basic service courses such as accounting, for other college programs. This obligation it willingly accepts. In addition, the faculty recognizes that a raising of expectations and commitments on the part of students will require both active faculty recruiting of students and continuing development of program quality to justify this added effort and investment. The faculty is fully committed to this program and accepts the challenges and added effort it personally means to them. The opportunities the "three-two" MBA curriculum provides for joint degree programs has been mentioned at the undergraduate level; however, joint professional programs with

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<sup>3</sup>See Appendix C for supporting documents.

medicine, law, education, architecture, and engineering have already been discussed and several have operating prototypes at other universities.

Finally, the leadership role of the University of New Mexico School of Business and Administrative Sciences vis-a-vis the proliferation of undergraduate programs in the State deserves mention and will take us full circle to our opening statement of needs and goals. There is not, at present, one school of business administration in New Mexico accredited by the American Association of Collegiate Schools of Business.<sup>4</sup> The State very much needs a high quality standard-setting school and program to provide the leadership for the State's development of higher education in Business and the Administrative Sciences--without which, in turn, it cannot hope to meet its high needs for creative development leadership. The School of Business and Administrative Sciences at the University of New Mexico believes it is well equipped to accept this leadership responsibility.<sup>5</sup>

#### B. The Doctoral Program

A doctoral program is an essential part of a Professional School of Business in that it recruits and develops the future scholars of the profession and further fosters enrichment of the teaching programs and professional practice through faculty research, executive programs, and consultation. In light of the new complex problems man faces which require organized human and technical resources and the potential

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<sup>4</sup>See Appendix D for supporting documents.

<sup>5</sup>See Appendix E for supporting documents.



contribution of management scientists to their solution, graduate schools of administration may well in the future be valued as much for their research as the professional M.B.A.'s they develop.

The School of Business and Administrative Sciences has already received approval of its Ph.D. program from the University faculty and administration. The proposed Doctoral Program is intended to provide an opportunity for students to acquire the necessary qualifications for teaching and research in the field of Administration. Therefore, by furnishing a pool of qualified faculty for other institutions in the State of New Mexico, this program should be a major factor in the further development of management education throughout the State. In addition, it is anticipated that the Doctoral Program will substantially strengthen the research capabilities of the School of Business and Administrative Sciences, and thereby enable it to contribute even more significantly to the social-economic development of state and nation. In our future post-industrial society the production of things will no longer remain a primary problem, whereas the production of thoughts, new concepts, insights and innovations will be the main focus of higher education for management.

The proposed Doctoral Program calls for instruction in the following areas:

1. Economic Theory

A fundamental grasp of economic theory, both macro and micro, as it relates to the internal operations of the organization; and also relation of the organization to the external economic environment, both national and international.

## 2. Organization Theory

An analysis of the human variables or factors influencing the administrative process at all levels including the individual, intro-group, inter-group, and total organization. Includes a thorough grasp of the research methods employed in studying such levels as well as the significant research findings to date.

## 3. Managerial Controls

The controls essential to and operating within the organization. The accounting, financial and legal constraints operating within the organization and having impact upon the administrative enterprise.

## 4. Quantitative Methods

A solid grasp of the scope and usefulness of mathematical models and techniques and statistical tools in the solution of administrative problems, including the use of simulation techniques to foster such understanding.

## 5. Operations, Control and Environment

The Ecology of Operations essentially designed as an integrative approach to understanding how the various variables included under 1, 2, 3, and 4 interact--the economic, legal, human resources, etc.--in decision-making processes involved in the various functional areas. Although the student may have a firm grasp of the variables subsumed under 1, 2, 3, and 4, the administrative process most often requires the evaluation of their interrelationship in a given situation and judgments of the appropriate weights to be attached to each of the several components involved.

In addition to the general areas required for all students listed above, each candidate will be required to offer a major field and a minor field of specialized study.

The intent of the faculty is to incrementally develop the Doctoral Program in order to develop the highest levels of scholarship and research talent. A very small number of carefully selected candidates on a one-to-one ratio with senior faculty engaged in significant research is planned as a pilot development program. By providing each doctoral candidate with an opportunity for in-depth work with several senior professors of immediate interest to both alike, the integrity of human and academic values, methods, and rewards of scholarly inquiry can best be shared. We believe that the development of our "three-two" Master of Business Administration Program will permit us to utilize our scarce resources most effectively and will provide the essential graduate level orientation upon which to develop a truly distinguished Doctoral Program.

## APPENDIX A

MBA PROGRAM (3-2) PROPOSAL  
BROAD EDUCATIONAL BACKGROUND

HUMANITIES 15	SOCIAL SCIENCES 15	LABORATORY 8	38
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BASIC UNDERLYING DISCIPLINES

ECONOMICS 9 (201, 300, 303)	BEHAVIORAL SCIENCES 9 (Ind. Psy., Ind. Soc., Cult. Anth.)	MATHEMATICS 8 (180, 181 or 162, 163)	26
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FOUNDATION OF ADMINISTRATIVE SCIENCES

Management Science	Organizational Behav.	Management Control	Org. Environment	Operations	
OR & Statistics 3	Managerial Economics 3	Systems Analysis & Decision Making 3	Organ. Theory 3	Mgr. Accounting 3	Inform. Systems & Computers 3
				Political & Legal Systems Economic & Social Forces; Internal set. 3	Organ. Intelligence Planning & Strategy 3
ELECTIVES 6 HOURS					6

GENERAL BUSINESS ADMINISTRATION

Accounting 3	Finance 2	Production 2	Marketing 2	Ind. Relations 2	International Business 2	Business Reserach 2	15
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SPECIALIZATION

Accounting 12	Finance 12	Marketing 12	OR/Production 12	Ind. Relations (Personnel) 12	International Business 12	Business Policy* 3	15
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\*Business Policy (3 hours) is a requirement for graduation. It is taken as an adjunct to the 12 hour specialization sequence.

## APPENDIX B

### Demand For And Starting Salaries For MBA Degree Holders

The attached documents have been compiled as evidence of the trend of the demand for and starting salary for MBA degree holders versus BBA degree holders.

The National Center for Educational Statistics projects that Bachelor degrees earned in Business and Commerce will increase from 81,870 in 1969-70 to 91,920 in 1979-80, or approximately 12.5%; while Master degrees earned will increase from 22,950 in 1969-70 to 61,750 in 1979-80, or approximately 170% (figures from National Center for Educational Statistics attached).

A study by the College Placement Council (published by the American Council on Education, a copy of which is attached), as well as a study by Dr. Frank Endicott (published in Generation magazine, a copy of which is attached) indicate the substantial value of the MBA degree over the BBA degree, as well as projections of continued greater value for the MBA in the future.

It is interesting to note that the number of MBA degrees conferred in the State of New Mexico has increased from ten in 1950-51 to 75 in 1967-68, or an increase of 650%. In contrast, the number of BBA degrees conferred in New Mexico has increased from 112 in 1952-53 to 289 in 1967-68, or an increase of only 150%.

Presently, the State of New Mexico can offer a BBA program at four private four-year colleges, nine public two-year colleges, and five public four-year universities, whereas there were only five BBA programs in New Mexico in 1952-53.

March 12, 1971 - 9

Starting Salaries Level  
Off for College Grads;  
Some Areas Show Decline

Starting salaries being offered college graduates, which rose in recent years at an annual rate of five to six percent, have leveled off this year and actually show a downturn in some areas, according to a survey by the College Placement

Council, Inc. CPC said only industrial engineering shows a gain of 3% or more this year among job offers at the bachelor's degree level. Starting jobs for these engineers are up 3.3% to \$877 a month. Last year, accounting showed the biggest percentage salary increase at 8.5%. This year, the accounting increase is 1.7%, to \$850.

Three job areas showing declines from last year are business, down to \$717; marketing and distribution, down to \$676; and the chemistry-mathematics-physics group, down to \$794. Other jobs at the bachelor degree level showed modest increases, ranging up to 2.9%.

Chemical engineering at \$928 continued to command the highest dollar average at the bachelor's level, followed by metallurgical engineering at \$890, and mechanical engineering at \$886.

At the master's level, the MBA category held up better than most curricula in the number of offers reported, but it failed to show its usual strength in dollar average. In fact, CPC said, its dollar average at mid-season was 3% below last year's closing figure. Last year at this time its dollar average was 4% above the close of the previous season.

MBA candidates with a technical undergraduate degree still receive the highest average offers at \$1,075, although this was a drop from \$1,112 in June. Chemical engineering majors were next at \$1,055, a gain of 1.8% over \$1,036 in June. MBA candidates with a nontechnical background had an average of \$1,018, down from \$1,044 in June.

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Source: Higher Education and National Affairs,

Published by: American Council on Higher Education



UPDATE TO REPORT OF MARCH 12, 1971 BY AMERICAN COUNCIL ON  
HIGHER EDUCATION (PAGE 23 OF THIS REPORT)



Larger Payouts Are Predicted <sup>125</sup>  
For Major Private Foundations

★ ★ ★  
Women Reportedly Fared Better  
Than Men Graduates in Salaries

American Council on Education • One Dupont Circle • Washington, D. C. 20036

Volume XX, Number 29

July 30, 1971

**Women Reportedly Fared  
Better than Men Grads  
In Beginning Salaries**

Although starting salaries for college graduates came to a virtual standstill in 1970-71, women graduates apparently fared somewhat better than men, according to a report issued July 29 by the College Placement Council. The council said beginning salaries for men seniors and graduate students rose steadily during the mid-1960s at a rate of five to seven percent a year. During the current year, however, none of the disciplines studied showed increases greater than two percent. Most stayed at about the same level, and some decreased.

The placement council said it found in a separate study, however, that beginning salaries for women went up as much as nine percent in a few categories and increased more than three percent in a number of others.

Data for the men's study covered actual offers made by business and industrial firms as reported by 140 representative colleges and universities from coast to coast. Information for the women's study was furnished by 128 institutions. The major difference in the two studies was that the men's survey is based on academic programs whereas the women's study is reported by types of positions. Additionally, the women's study covers government employment while the men's study does not.

While college recruiting activity dropped significantly in the last two years, beginning salary rates continued to advance during 1969-70 at a pace only slightly slower than in the previous decade. This past year, however, the impact of fewer jobs being available became apparent. The cooling trend extended to dollar averages as well as to volume in the men's study and certain areas of the women's study. At the bachelor's level, the final averages for male candidates in non-technical curricula, other than accounting, were slightly under those at the close of last year, with general business at \$716, compared to \$721 for 1969-70. Accounting, which had been attracting sizable increases in recent years, went up only one percent to \$846 in 1970-71. The dollar averages for engineering curricula ranged from one to two percent higher than last year. Chemical engineering continued to attract the highest bachelor's dollar average, \$920 a month, while the dollar average for engineering curricula generally was \$879. In the science areas dollar value of offers dropped along with volume. At the end of the season, the averages were: chemistry, \$795; mathematics, \$787; and physics, \$826.

At the master's level, master of business administration candidates with a technical undergraduate degree closed the year with the top dollar average, \$1,111, one dollar under last year's final figure. MBA's with a non-technical background ended at exactly the same figure as last year, \$1,044. MBA candidates were the only graduating students receiving offers in numbers comparable to last year. Most master's engineering disciplines ran one percent to just under two percent above last year's final dollar averages, with the exception of industrial which dropped one percent. Average dollar values ranged between \$978 for civil engineering to \$1,054 for chemical engineering. Data at the doctoral level were too sparse to draw meaningful conclusions, the council stated.

## TRENDS IN HIGHER EDUCATION TO 1979-80

## ENROLLMENT

	Fall 1969	Fall 1979
Total, all institutions	7,917,000	12,258,000
Public	5,840,000	9,806,000
Private	2,078,000	2,451,000
Degree-credit	7,299,000	11,075,000
Public	5,260,000	8,671,000
Private	2,040,000	2,403,000
4-year	5,902,000	8,629,000
2-year	1,397,000	2,446,000
Men	4,317,000	6,251,000
Women	2,982,000	4,823,000
Full-time	5,198,000	7,669,000
Part-time	2,101,000	3,405,000
Undergraduate	6,411,000	9,435,000
Graduate	889,000	1,640,000
Non-degree-credit	618,000	1,183,000

## STAFF

	1969-70	1979-80
Total, professional staff	872,000	1,221,000
Instructional staff	700,000	986,000
Resident degree-credit	578,000	801,000
Other instruction	122,000	185,000
Other professional staff	172,000	235,000
Administration, services	91,000	124,000
Organized research	80,000	112,000
Public	589,000	906,000
Private	282,400	316,000
4-year	749,000	1,011,000
2-year	122,400	211,000

## EXPENDITURES

(in billions of 1969-70 dollars)

	1969-70	1979-80
Total expenditures from current funds	\$21.8	\$40.0
Public institutions	13.8	26.8
Student education	8.6	16.9
Organized research	1.8	2.8
Related activities	0.8	1.8
Auxiliary, student aid	2.6	5.3
Private institutions	8.0	13.2
Student education	4.1	6.5
Organized research	1.7	2.9
Related activities	0.4	0.6
Auxiliary, student aid	1.8	3.2
Capital outlay from current funds	0.5	0.5

## STUDENT CHARGES

(tuition, room, and board in 1969-70 dollars)

	1969-70	1979-80
All public institutions	\$1,198	\$1,367
Universities	1,342	1,578
Other 4-year	1,147	1,380
2-year	957	1,166
All private institutions	\$2,520	\$3,162
Universities	2,905	3,651
Other 4-year	2,435	3,118
2-year	2,064	2,839

## EARNED DEGREES

	1969-70	1979-80
Bachelor's and 1st prof.	784,000	1,133,000
Natural sciences	176,880	239,130
Mathematics, statistics	29,740	52,980
Engineering	41,090	50,410
Physical sciences	21,090	18,070
Biological sciences	37,180	62,990
Agriculture, forestry	11,070	9,390
Health professions	33,600	41,970
General science	3,110	3,320
Social sci., humanities	607,120	893,870
Fine arts	52,250	77,860
English, journalism	62,840	116,840
Foreign languages	23,790	57,150
Psychology	31,360	60,740
Social sciences	149,500	273,190
Education	120,460	114,170
Library science	1,000	1,680
Social work	3,190	4,100
Accounting	20,780	29,780
Other bus. & commerce	81,870	91,920
Other	60,080	66,540
Master's	219,200	432,500
Natural sciences	46,080	88,580
Mathematics, statistics	7,950	23,290
Engineering	16,900	30,750
Physical sciences	6,300	6,210
Biological sciences	6,580	15,060
Agriculture, forestry	2,680	3,030
Health professions	4,570	7,940
General science	1,100	2,300
Social sci., humanities	173,120	343,920
Fine arts	13,850	27,120
English, journalism	10,890	28,420
Foreign languages	6,390	22,180
Psychology	4,700	12,910
Social sciences	20,970	51,100
Education	71,130	90,160
Library science	7,190	19,280
Social work	5,960	17,700
Accounting	1,490	2,980
Other bus. & commerce	22,950	61,750
Other	7,600	10,320
Doctor's (except 1st prof.)	29,300	62,500
Natural sciences	14,100	32,120
Mathematics, statistics	1,350	3,970
Engineering	3,980	12,650
Physical sciences	4,220	6,870
Biological sciences	3,410	7,310
Agriculture, forestry	800	730
Health professions	310	510
General science	30	80
Social sci., humanities	15,200	30,380
Fine arts	990	1,330
English, journalism	1,310	2,880
Foreign languages	860	2,210
Psychology	1,720	3,470
Social sciences	3,550	6,990
Education	5,030	10,350
Library science	20	40
Social work	100	220
Accounting	50	100
Other bus. & commerce	620	1,710
Other	950	1,080

Expenditures of colleges and universities are expected to nearly double in the next 10 years, according to projections of the last decade's trends, but enrollments are projected to increase about 55 per cent during the same period. The figures above, which may not add because of rounding, are derived from tables by the National Center for Educational Statistics.

Source: Chronicle of Higher Education, June, 1971.

Table 22.—Percentage distribution of earned degrees, by field of study and level:  
United States, 1959-60 to 1979-80—Continued

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

Year	Total number of degrees	Total social sciences and humanities	Fine arts <sup>7</sup>	English and journalism	Foreign languages <sup>8</sup>	Psychology	Social sciences <sup>9</sup>	Education	Library science <sup>10</sup>	Social work <sup>10</sup>	Business and commerce		
											Accounting	Other business and commerce <sup>11</sup>	Other <sup>12</sup>
BACHELOR'S AND FIRST-PROFESSIONAL													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1959-60 ....	389,183	70.5	5.7	5.8	1.4	2.1	12.9	18.3	0.1	0.1	2.8	11.9	9.5
<sup>5</sup> 1969-70 ....	784,000	77.4	6.7	8.0	3.0	4.0	19.1	15.4	.1	.4	2.7	10.4	7.7
<sup>6</sup> 1979-80 ....	1,133,000	78.9	6.9	10.3	5.0	5.4	24.1	10.1	.1	.4	2.6	8.1	5.9
MASTER'S													
1959-60 ....	77,692	76.5	6.2	4.1	1.5	1.8	7.7	39.2	2.3	2.6	.6	6.4	4.2
<sup>5</sup> 1969-70 ....	219,200	79.0	6.3	5.0	2.9	2.1	9.6	32.4	3.3	2.7	.7	10.5	3.5
<sup>6</sup> 1979-80 ....	432,500	79.5	6.3	6.6	5.1	3.0	11.8	20.8	4.5	4.1	.7	14.3	2.4
DOCTOR'S (except first-professional)													
1959-60 ....	9,829	52.2	3.9	4.1	2.4	6.5	13.0	15.0	.2	.2	.2	1.4	5.3
<sup>5</sup> 1969-70 ....	29,300	51.9	3.4	4.5	2.9	5.9	12.1	17.2	.1	.3	.2	2.1	3.2
<sup>6</sup> 1979-80 ....	62,500	48.6	2.1	4.6	3.5	5.6	11.2	16.6	.1	.4	.2	2.7	1.7

See footnotes at end of table 25.

Source: Projections of Educational Statistics to 1975-80

Published by: Department of Health, Education, and Welfare, 1970 Edition.

Table 23.—Earned bachelor's and first-professional degrees, by field of study:  
United States, 1959-60 to 1979-80—Continued

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

Year	Total social sciences and humanities	Fine arts <sup>7</sup>	English and journalism	Foreign languages <sup>8</sup>	Psychology	Social sciences <sup>9</sup>	Education	Library science <sup>10</sup>	Social work <sup>10</sup>	Business and commerce		
										Accounting	Other business and commerce <sup>11</sup>	Other <sup>12</sup>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1959-60 .....	274,477	22,281	22,400	5,482	8,061	50,193	71,145	429	487	10,711	46,228	37,060
1960-61 .....	281,503	21,895	23,976	6,473	8,460	52,192	74,023	439	567	10,580	45,316	37,582
1961-62 .....	293,695	23,370	26,508	7,975	9,578	57,304	78,153	423	654	11,353	46,011	37,366
1962-63 .....	323,635	25,319	30,251	9,768	10,993	65,373	82,627	462	825	11,880	47,124	39,013
1963-64 .....	365,473	28,184	35,174	12,217	13,258	77,039	90,813	510	983	13,675	50,913	42,707
1964-65 .....	393,213	30,385	38,880	13,926	14,676	84,231	95,667	623	1,291	14,886	53,839	44,809
1965-66 .....	412,509	32,605	42,146	15,313	16,940	93,175	94,294	642	1,664	14,903	54,084	46,743
1966-67 .....	446,105	36,365	45,776	16,855	19,410	104,283	95,859	701	1,881	15,593	59,967	49,415
1967-68 .....	510,810	42,566	52,340	19,264	23,938	120,774	107,778	814	2,518	17,922	68,644	54,252
1968-69 .....	590,195	50,608	59,476	21,709	29,332	140,932	121,669	1,000	3,367	20,032	81,557	60,513
* 1969-70 .....	607,120	52,250	62,840	23,790	31,360	149,500	120,460	1,000	3,190	20,780	81,870	60,080
PROJECTED <sup>6</sup>												
1970-71 .....	632,930	54,620	67,330	26,340	33,870	160,300	121,160	1,040	3,040	21,600	83,400	60,230
1971-72 .....	555,700	56,780	71,640	28,980	36,310	170,440	120,930	1,090	2,990	22,750	84,540	59,250
1972-73 .....	686,100	59,580	77,080	32,090	39,190	182,770	122,160	1,150	3,140	23,580	85,990	59,370
1973-74 .....	715,900	62,410	82,770	35,520	42,130	194,860	123,240	1,220	3,300	24,280	86,740	59,430
1974-75 .....	750,180	65,430	88,820	39,130	45,320	208,380	123,950	1,280	3,470	25,190	88,060	61,150
1975-76 .....	782,210	68,220	94,640	42,710	48,470	221,690	123,970	1,350	3,620	26,640	89,140	62,260
1976-77 .....	815,030	71,060	100,650	46,440	51,760	235,570	122,540	1,420	3,770	27,570	90,550	63,700
1977-78 .....	844,820	73,660	106,470	50,160	54,910	248,810	120,790	1,480	3,910	28,360	91,050	65,220
1978-79 .....	876,260	76,400	112,620	54,130	58,250	262,820	118,790	1,540	4,050	29,230	91,490	66,940
1979-80 .....	893,870	77,860	116,840	57,150	60,740	273,190	114,170	1,580	4,100	29,780	91,920	66,540

See footnotes at end of table 25.

Source: Projections of Educational Statistics to 1979-80  
Published by: Department of Health, Education, and Welfare, 1970 Edition.

Table 24.—Earned master's degrees, by field of study:  
United States, 1959-60 to 1979-80—Continued

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

Year	Total social sciences and humanities	Fine arts <sup>7</sup>	English and journalism	Foreign language <sup>8</sup>	Psychology	Social sciences <sup>9</sup>	Education	Library science <sup>10</sup>	Social work <sup>10</sup>	Business and commerce		
										Accounting	Other business and commerce <sup>11</sup>	Other <sup>12</sup>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1959-60 .....	59,460	4,809	3,192	1,156	1,406	5,965	30,424	1,814	1,987	470	4,960	3,277
1960-61 .....	61,458	4,804	3,391	1,405	1,719	6,378	30,830	1,931	2,151	447	4,999	3,403
1961-62 .....	66,202	5,182	3,765	1,626	1,832	7,241	32,654	2,140	2,272	511	5,557	3,422
1962-63 .....	71,402	5,620	4,307	2,026	1,918	8,326	34,105	2,363	2,549	499	6,184	3,505
1963-64 .....	78,610	6,020	4,807	2,391	2,059	9,395	37,171	2,717	2,851	530	6,694	3,975
1964-65 .....	87,012	6,821	5,461	2,947	2,708	10,635	39,296	3,211	3,097	617	7,926	4,293
1965-66 .....	106,969	8,359	6,788	3,727	3,117	12,900	45,094	3,916	3,872	862	13,327	5,007
1966-67 .....	121,399	9,741	7,980	4,378	3,772	14,954	49,744	4,489	4,182	1,024	15,212	5,923
1967-68 .....	137,548	10,815	8,646	5,007	4,325	16,197	56,963	5,165	4,725	1,137	18,150	6,418
1968-69 .....	152,537	12,300	9,309	5,231	4,011	18,207	64,583	5,932	5,037	1,333	19,641	6,953
* 1969-70 .....	173,120	13,850	10,890	6,390	4,700	20,970	71,130	7,190	5,960	1,490	22,950	7,600
PROJECTED <sup>6</sup>												
1970-71 .....	202,280	16,040	13,110	7,980	5,670	24,960	80,500	8,730	7,320	1,730	27,670	8,570
1971-72 .....	213,290	16,900	14,170	8,920	6,190	26,990	81,570	9,440	8,060	1,830	30,470	8,750
1972-73 .....	227,870	18,020	15,520	10,090	6,850	29,510	83,690	10,360	8,990	1,980	33,890	8,970
1973-74 .....	241,350	19,060	16,870	11,310	7,500	31,940	85,000	11,290	9,930	2,100	37,250	9,100
1974-75 .....	258,020	20,330	18,520	12,790	8,280	34,850	87,050	12,440	11,060	2,230	41,150	9,320
1975-76 .....	274,450	21,620	20,280	14,390	9,090	37,750	88,650	13,680	12,250	2,370	44,910	9,460
1976-77 .....	293,100	23,080	22,280	16,230	10,020	41,080	90,360	15,070	13,580	2,520	49,300	9,580
1977-78 .....	311,090	24,500	24,320	18,130	10,970	44,460	91,150	16,460	14,940	2,690	53,770	9,700
1978-79 .....	329,220	25,910	26,400	20,170	11,980	48,050	91,310	17,910	16,390	2,850	58,610	9,640
1979-80 .....	343,920	27,120	28,420	22,180	12,910	51,100	90,160	19,280	17,700	2,980	61,750	10,320

See footnotes at end of table 25.

Source: Projections of Educational Statistics to 1979-80

Published by: Department of Health, Education, and Welfare, 1970 Edition.

<sup>1</sup> Includes mathematics, statistics, and computer science.

<sup>2</sup> Includes astronomy, chemistry, earth sciences, meteorology, physics, and other physical sciences.

<sup>3</sup> Includes anatomy, bacteriology, biochemistry, biology, botany, entomology, physiology, zoology, and other biological sciences.

<sup>4</sup> Includes dentistry, medicine and osteopathy, nursing, optometry, pharmacy, public health, veterinary medicine, and other health professions.

<sup>5</sup> Estimated.

<sup>6</sup> The projection of degrees by subject field is based on the assumption that the percentage distribution of degrees by field for each level and sex will continue the 1959-60 to 1969-70 trend.

For methodological details, see appendix A, table A-2; for complete classification of degrees by field, see appendix A, "Classification of Degrees by Field of Study."

<sup>7</sup> Includes architecture, music, speech and dramatic arts, and other fine and applied arts.

<sup>8</sup> Includes classical languages, French, German, Russian and other Slavic languages, Spanish, and other languages and language programs.

<sup>9</sup> Includes anthropology, economics, geography, history, international relations, political science, public administration, sociology, and other social sciences.

<sup>10</sup> Beginning in 1965-66, bachelor's and first-professional degrees in library science and social work exclude master's degrees whether considered as first-professional or not; they are included in master's degrees.

Prior to 1965-66, bachelor's and first-professional degrees and master's degrees in library science and social work have been estimated to conform to this classification.

For method of estimating, see appendix A, "Estimation Methods."

Doctorates have not been affected by this reclassification.

<sup>11</sup> Includes hotel and restaurant administration, secretarial studies, other business and commerce programs, distributive education, finance and banking, marketing, transportation, real estate and insurance, and business education.

<sup>12</sup> Includes home economics; law, military, naval, or air force science; theology; philosophy and religion; and miscellaneous and unclassified fields.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office Education publications: "Earned Degrees Conferred by Institutions of Higher Education," annually, 1959-60 through 1968-69.

Source: Projections of Educational Statistics to 1979-80

Published by: Department of Health, Education, and Welfare, 1970 Edition.



While a "substantial" demand for college graduates at higher starting salaries will continue into 1970, there are indications that the sharp "up-trend" in hiring by business may be slowing down. So observes Frank S. Endicott, director of placement for Northwestern University, in his 24th annual report of

trends in the employment of college and university graduates in business and industry.

This year's Endicott report—based upon a survey among 206 "well-known" corporations who actively recruit on college campuses throughout the country—further discloses that:

### **Special Endicott Survey of 206 Leading Companies**

Generations, February, 1970.

There will be a "sizeable" increase in the demand for engineers, accountants, salesmen and graduates in science and mathematics, while the need for men with general training in business and in liberal arts "will increase only slightly."

Not since 1961 have so many companies reported an "uncertain" business outlook.

More companies will curtail campus recruiting than in any recent year.

While these factors, described by Endicott as "counter-trends," are not strong enough to be dominant in the report, "they should not be overlooked," he cautions, adding:

"When combined with the return of fairly large numbers of college graduates from military service, these counter-trends suggest that some 1970 graduates will find applicants more plentiful, companies more selective, and the ideal job more difficult to get."

Regarding the return of veterans during the year, Endicott points out that only 75 companies indicated "that job opportunities for graduating seniors will be greatly affected." (These companies say they will give preference to returning servicemen because of "their maturity and more clearly defined career goals.") Most companies, however, see "very few" of the returning veterans as "likely to have the type of specialized training needed for positions generally filled by recent college graduates."

Endicott notes that this year's survey was taken during a period of "uncertainty on the part of many business leaders" concerning the 1970 business outlook. "Since the data were gathered (last October-November), the economic outlook has not improved," notes Endicott. "The stock market was continuing its downward trend . . . cutbacks in defense spending had been announced . . . inflation continued at a very high rate . . . interest rates were extremely high . . . little relief from high taxes was in sight. . . ."

A total of 124 companies, or 69 per cent, are planning to hire more graduates this year than were hired last year, while 62 companies, or 30 per cent, have cut back in their recruiting efforts.

Companies that employed 21,219 men with bachelor's degrees last year said they intend to hire 23,757 in 1970, a 12 per cent increase. The projected demand for men with master's

degrees was up 22 per cent to 2,885 from 2,368 in 1969.

"Continued growth of the company," was the most frequently cited reason for greater manpower needs going into the 70s. Additional reasons included continued up-grading of management potential, backlogs of unfilled needs from 1969 recruiting efforts, recent reorganizations, and a greater number of executive retirements. As one recruiter summed it up: "The rate of continued growth which we anticipate depends largely upon manpower ability and thus our needs must increase if we expect to grow."

These companies (42, or only 23 per cent of the firms reporting hirings for 1969 and 1970) hiring fewer graduates most often cited a decline in profits and generally unfavorable economic conditions as the major reasons for the decrease. One company said it was trying to "utilize our manpower more effectively." Another company said it shifted its efforts to experienced men instead of trainees because of the retirement of a number of key personnel. "We are disillusioned with the pressure of graduates to move fast into management. We are looking hard at non-college and junior college candidates," stated one personnel recruiter.

Despite the economic uncertainties, it is apparent that companies are still seeking the right men for the right jobs. "Remember," reminds Endicott, "we survey personnel directors, not controllers, and they tend to take a longer view. They have to determine what kinds of men they are going to need in 5 years or so, and then actively seek them out now."

"Business isn't folding up—it's precisely when things are tough and competition is keen that the need for the best brainpower you can get is greatest. These companies aren't going to lay back."

Trends of this year's survey support Endicott's view:

- Companies plan to employ 15 per cent more business administration graduates, and 18 per cent more MBAs (MBAs with a technical BS are expected to rise 32 per cent compared with 14 per cent for MBAs with a non-technical BA). The demand for engineers will be up 26 per cent at the master's level, while 3 per cent more accountants (and 26 per cent more with master's degrees) will

be sought. A 5 per cent increase is projected for liberal arts graduates.

- Starting salaries again will increase over those projected a year ago. Endicott, however, notes that the pre-season estimates and demand for men in such fields as engineering, sales and accounting will "undoubtedly result in larger salary offers during the interviewing season." In the past, he adds, early estimates of starting salaries have been low.

The predicted average salary offered engineers will be about \$872 per month compared with the 1969 monthly forecast of \$818 and the \$830 salary actually paid in 1969. Other monthly salary projections include those for accountants, about \$832 (\$737 projected and \$783 actually paid in 1969); men with business administration training, \$708 (\$668 projected and \$675 actually paid in 1969); and liberal arts graduates, \$688 (\$657 projected and \$665 actually paid in 1969).

- Average starting salaries for men with master's degrees in engineering will be about \$1,005 per month (\$957 projected and \$945 actually paid in 1969). The MBA with an undergraduate degree in a technical field (engineering, chemistry, physics, etc.) will receive about \$1,063 (\$991 projected and \$1,001 actually paid in 1969) and \$1,017 with a non-technical BA degree (\$924 projected and \$948 actually paid in 1969).

- Prospects look bright for college women with more than 110 companies, or 53 per cent, planning to employ a total of 2,144 college women in the 1970 graduating class, up 20 per cent from the 1,789 hired in 1969. Women are generally being sought for such fields as accounting (52 companies indicated such need); engineering (51 companies); data processing (43 companies); mathematics (24 companies) and general business (14 companies).

On the average, college women will be paid about \$705 per month compared with last year's projected average of about \$650. Women engineers will start about \$844, up from a projected average of \$806 last year (see page 22). Previous Endicott surveys have shown that many companies do not regularly recruit college women through campus interviews but employ them upon application.



Asked to comment on what companies look for in new graduates, Endicott said: "Companies differ somewhat in what they look for and they look for different characteristics for certain types of jobs. There is no standardized pattern which most companies have developed.

"But there are some general characteristics which are examined when the student is considered for employment. Special attention is usually given to the personal qualities of the student. These include confidence, self-expression, motivation, and enthusiasm. There is little attempt by recruiters to define these qualities in specific terms. Decisions are usually based on general impressions during the interview. Judgments are admittedly subjective, but they are based on a lot of experience with many graduates who are seen on the campus and many newly hired graduates on the job.

"The student's scholastic achievement, of course, is noted. If it is not very high, the recruiter usually asks for an explanation. For jobs in science, engineering and accounting, grade-point averages are generally more important to employers than they are for

## College Women

Field	Average Starting Salary	No. Companies Planning to Employ
Accounting	\$746	42
General Business	682	38
Mathematics—Statistics	746	34
Data Processing—Computer Programming	721	33
Engineering	844	19
Chemistry	765	15
Home Economics	615	14
Liberal Arts	631	12
Marketing—Retailing	680	12
Science (Field not stated)	688	11
Economics—Finance	700	10
Secretary	552	6

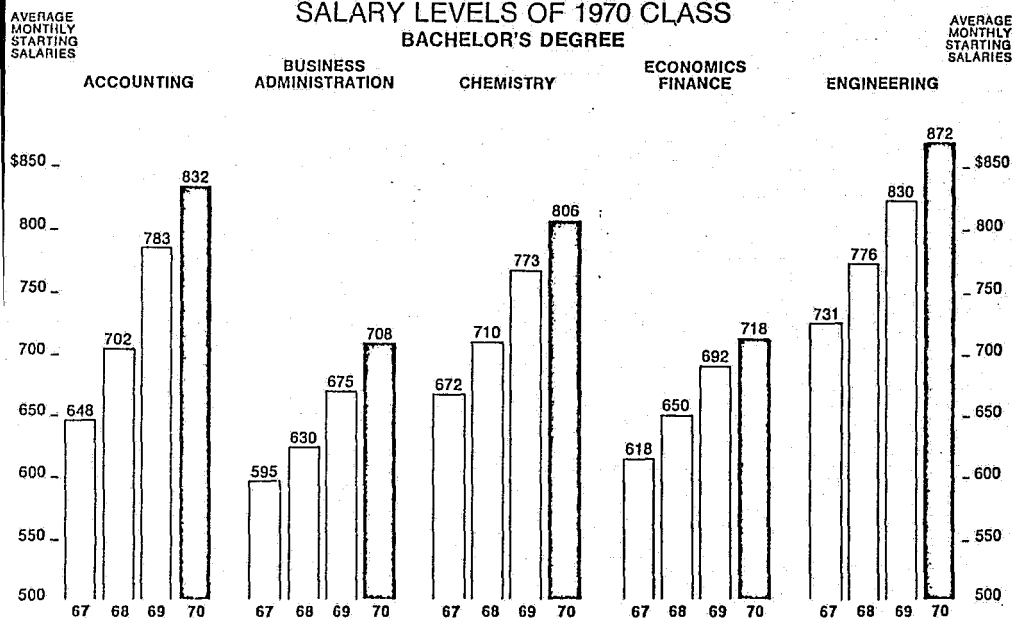
jobs in sales or business administration where personal qualities tend to determine success.

"Usually, the recruiter likes to see on the record some participation in campus activities. If there are none, he may want to know why, and he may get a very good answer, such as a job which required about 30 hours a week. I suspect that most recruiters consider campus officerships and committee chairmanships as evidence of leader-

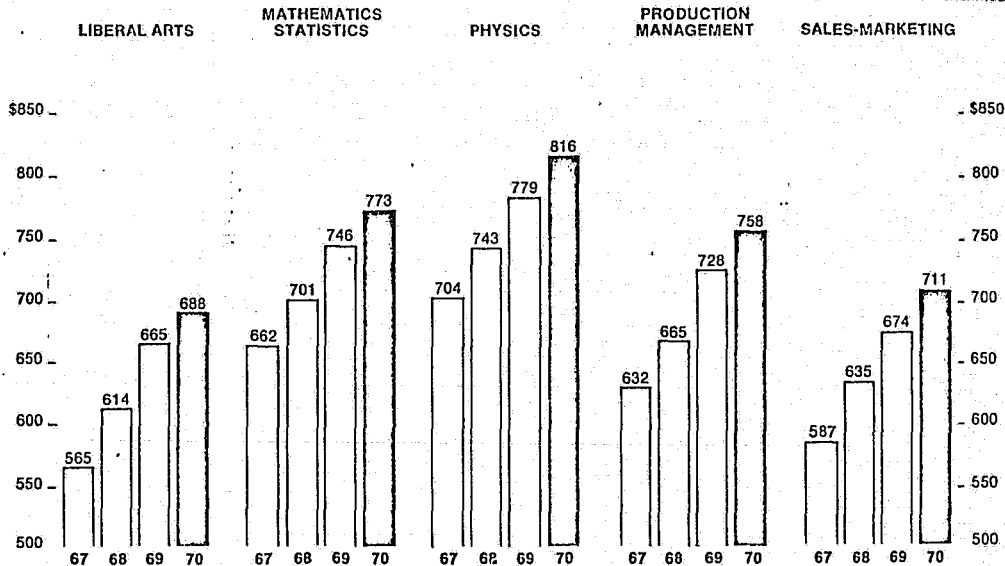
ship qualities.

"Previous work experience, if any, is considered. Some students have had summer or part time jobs which have provided valuable experience. Few employers expect that these jobs will relate directly to the job for which the student is applying. They are usually more interested in finding out what the student learned about himself on such jobs. This I would say, is a fairly good summary of what employers look for."

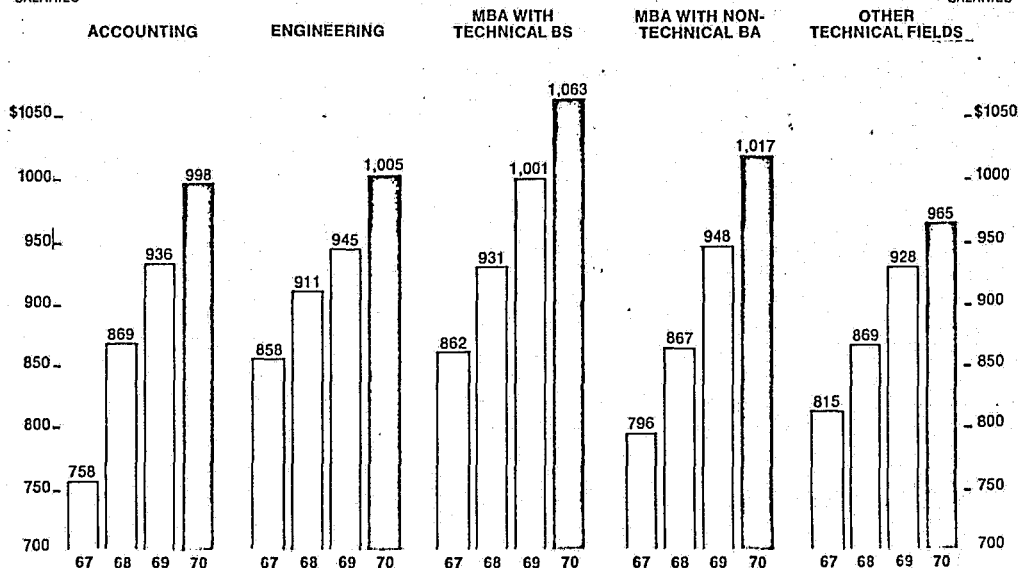
## SALARY LEVELS OF 1970 CLASS BACHELOR'S DEGREE



\*Salaries figures from 1967-1969 are those that were actually paid.

AVERAGE  
MONTHLY  
STARTING  
SALARIESSALARY LEVELS OF 1970 CLASS  
BACHELOR'S DEGREEAVERAGE  
MONTHLY  
STARTING  
SALARIES

\*Salaries figures from 1967-1969 were those actually paid.

AVERAGE  
MONTHLY  
STARTING  
SALARIESSALARY LEVELS OF 1970 CLASS  
MASTER'S DEGREEAVERAGE  
MONTHLY  
STARTING  
SALARIES

\*Salaries figures from 1967-1969 are those that were actually paid.

## APPENDIX C

COST PER STUDENT CREDIT HOUR - DIRECT INSTRUCTION (\$)

COLLEGE	1964-1965		1965-1966		1966-1967		1967-1968		1968-1969		1969-1970	
A & S	13.99	71.2	14.99	72.9	16.50	67.4	18.46	71.8	18.92	60.6	(18.27)	60.3
Law	42.42	216.0	39.29	191.0	51.88	210.7	59.30	230.7	60.32	193.1		
Medicine	386.60	1968.4	254.24	1235.9	406.58	1660.9	236.35	919.6	388.44	1243.4	(389.04)	1283.9
Bus. Adm.	16.55	84.3	14.95	72.7	16.88	69.0	19.01	74.0	17.94	57.4		
Educa.	21.67	110.3	22.03	107.3	23.71	96.9	24.60	95.7	27.13	86.8		
Engineer.	34.04	173.3	39.79	193.4	43.54	177.9	48.31	188.0	50.70	162.3		
Fine Arts	28.71	146.2	26.75	130.0	29.38	120.0	32.14	125.1	32.88	105.2		
Nursing	82.67	420.9	104.43	507.6	112.93	461.3	70.47	274.2	52.67	168.6		
Pharmacy*	57.43	292.4	42.84	208.2	36.95	150.9	36.82	143.3	52.69	168.7		
Den. Hyg.	119.54	608.7	64.74	314.7	81.57	333.2	94.45	367.5	104.25	333.7		
UNM**	19.64	100.0	20.57	100.0	24.48	100.0	25.70	100.0	31.24	100.0	(30.30) <sup>(1)</sup>	100.0

\* Excludes Dental Hygiene

\*\* Includes Summer and Field Session and other miscellaneous institutional programs.

(1) Estimated.

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STUDENT-FACULTY RATIOS, SEMESTER I, 1970-71  
Published by: UNM INSTITUTIONAL RESEARCH, JUNE 1971

	I	II	III
Department	Senior Faculty Only	Senior Faculty plus TA's	Senior Faculty plus GA's, TA's and SA's
Anthropology	50.13	50.13	34.30
Biology	38.11	38.11	18.84
Chemistry	32.22	32.22	18.47
Economics	27.73	25.73	19.41
English	35.42	19.80	18.72
Geography	32.15	32.15	29.23
Geology	35.78	32.17	18.67
History	33.62	33.62	18.88
Journalism	15.26	15.26	15.26
Math	25.47	20.86	17.48
M & GL	24.60	18.67	14.27
Philosophy	45.51	35.40	31.08
Physics	21.71	21.71	12.85
Political Science	30.38	23.87	23.87
Psychology	47.60	47.60	31.92
Sociology	38.70	38.70	26.39
Speech	13.77	13.77	12.24
A & S	33.74	26.65	19.63
B & AS	32.63	32.63	25.45
Art Education	17.58	16.12	14.88
Educational Admin.	6.46	6.46	5.60
Educational Foundations	40.11	37.62	25.17
Elementary Education	19.52	15.60	11.98
Guidance & Special Ed.	20.20	19.03	12.69
H, PE & Rec.	20.89	20.89	14.76
Home Economics	13.97	13.97	13.01
Secondary Education	16.17	15.82	14.13
EDUCATION COLLEGE	19.44	18.46	14.27
Chemical Engineering	10.67	10.67	7.47
Civil Engineering	12.68	11.85	9.63
Electrical Engineering	14.24	12.67	11.00
Mechanical Engineering	9.25	8.36	6.59
Nuclear Engineering	4.46	4.46	3.53
ENGINEERING COLLEGE	11.52	10.65	8.65
Architecture	19.79	19.79	18.16
Art*	32.09	30.66	20.75
Drama	19.86	19.86	19.86
Music	11.91	11.91	10.44
FINE ARTS COLLEGE	21.49	21.12	16.86
LAW	15.88	15.88	15.88
NURSING	3.99	3.99	3.99
PHARMACY	6.33	6.33	6.33
TOTAL (UNM)	24.34	21.88	16.88

## APPENDIX D

## Accreditation Study

The SB&AS has compiled the following information regarding accreditation and its chances for gaining accreditation in the near future.

New Mexico is one of only six states left in the United States without a School of Business which is accredited by the American Association of Collegiate Schools of Business. As a result, a preliminary study of the relative position of the SB&AS in regard to standards established by the AACSB was accomplished; the results of which are as follows:

The four most critical standards are those pertaining to staffing and certification. (See attached sheets for computation format.)

Overall-adequacy (section a. Computations) is a determination of our staffing in reference to a minimum staffing requirement given our course offerings and enrollments. In years 1970-71 and 71-72 we are understaffed on this basis. (FTE Staffing.)

Full-time faculty (section b. Computations) is a check to see if  $3/4$  of our FTE are full-time. Here we're OK all the way through.

Doctoral Qualifications (section c. Computations) is a determination of acceptable terminal qualifications given our existing faculty (i.e., 40% of the faculty teaching undergraduates should be terminally qualified, 75% of the faculty teaching graduates should be terminally qualified.) Starting in 1971-72 we are OK here.

Professional and Teaching Qualifications (section d. Computations) requires that 80% of the FTE faculty hold at least MBA or MBA and professional certification (CPA, etc.) or professional degree (LLB, JD, etc.). Starting in 1971-72 we are OK here.

Below are the computations for the minimum standard and our actual position for the above standards. Specific assumptions for these computations are available for reference.

Standard (AACSB)		70-71	71-72	72-73
a. Std - Required Faculty		22.7	21.0	17.9
Actual Faculty		15.2*	17.0*	19.0 ok
b. Std - Required Full-time Faculty		11.4	12.8	14.3
Actual Full-time Faculty		12.8 ok	16.0 ok	18.0 ok
c. Std - Required Doctoral Deg. Holders		10.3	9.5	9.1
Actual Doctoral Deg. Holders		9.2*	14.1 ok	15.8 ok
d. Std - Req. Professionally Cert.		18.2	16.8	14.3
Actual Professionally Cert.		15.2*	17.0 ok	19.0 ok
Total Credit Hours Offered	Undergraduate	7687	7215	4965
	Graduate	1044	1200	1630

Undergraduate - See a. (1), Computations. Graduate - See a. (2), Computations.

\* SBAS Performance is Substandard

The figures for the year 1970-71 are for the existing program consisting of a full BBA program and the MBA program. The figures for 1971-72 and 1972-73 are for a program consisting of a reduced BBA program and an enlarged MBA program. (Projections used for these figures are on the following page.) The projected phasing out of the BBA program allows us to bring our faculty/student ratios, etc. into line with AACSB standards by the year 1972-73.

If in fact the School had not decided two years ago to phase out the undergraduate program our staffing requirements for 1971-72 and 1972-73 would be as follows based on an extrapolation of our recent enrollment increases.

Standard (AACSB)		70-71	71-72	72-73
a.	Std - Required No. of Faculty	22.7	25.0	28.4
	Actual No. of Faculty	15.2*	17.0	19.0*
Total Credit Hours Offered	Undergraduate	7687	8400	9200
	Graduate	1044	1200	1630

\*SBAS Performance is substandard

Clearly, if enrollments in the undergraduate program had been allowed to increase as they had in the past, our staffing requirements would continue to far outstrip any reasonable projection for increases in faculty strength in the future.

Attached also are copies of the worksheet for the computations for 1972-73 as well as a copy of a letter Re: Accreditation of SBAS, written by Dr. William Voris, Dean of College of Business and Public Administration, University of Arizona.



UNM School of Business and Administrative Sciences  
Pro-Forma Program Projections

SB&AS PROGRAMS	1970-71 SEAS Founda- tion, Intern- ship Prog., Bus & Prof Program Indian MBA	1971-72 Affiliates Program Executive Program	1972-73 Accredita- tion 25th Anniv SBAS	1973-74 PhD Prog. BBA Phas- ed out	1974-75
<u>Academic Programs</u>					
<u>BBA Program</u>					
Total Enrollment	520	390	200	20	0
FTE Students	480	360	180	20	0
Service (FTE)	50	40	40	40	40
<u>MBA Program</u>					
Total Enrollment	100	130	160	185	225
FTE Students	60	80	100	120	150
Full-time	20	30	40	55	75
Part-time	80	100	120	130	150
<u>Ph.D. Program</u>					
Total Enrollment					4
FTE Students					4
Full-time					4
Part-time					0
<u>Executive Program</u>					
<u>Phase I Certificate</u>					
Total Enrollment		35		35	35
Scholarships		(5)		(5)	(5)
<u>Phase II MIA</u>					
Enrollment			6		6
Total Student FTE	590	480	326	180	200
Additional Faculty	2	1	1	1	1
Affiliate Program Contributions	\$20,000	\$20,000	\$25,000	\$30,000	\$35,000

Table III, A, 2 Computations - Fall (previous year); Fall (year of application)

## a. Overall adequacy

(1) $\sum$ (Fall undergraduate enrollment per section X course credit hours)	=	<u>4965</u>
(2) $\sum$ (Fall graduate enrollment per section X course credit hours)	=	<u>1629</u>
(3) $\frac{\text{Total number of fall undergraduate student credit hours (1)}}{400}$	=	<u>12.42</u>
(4) $\frac{\text{Total number of fall graduate student credit hours (2)}}{300}$	=	<u>5.43</u>
(5) Minimum number of FTE academic staff required [(3) + (4)]	=	<u>17.85</u>
(6) Actual number of FTE academic staff from Table III, A, 2 above, Col. 5, Item Z (T + U = Z)	=	<u>19.00</u>

b. Full-time academic faculty<sup>1</sup>

(1) Actual number of FTE academic staff [a (6) above] X 0.75	=	<u>14.25</u>
(2) Actual number of full-time equivalent academic faculty (listed in Table III, A, 2 above, Col. 5, Item T)	=	<u>18.00</u>

## c. Doctoral qualifications

(1) Total FTE academic staff generated under a (3) above X 0.40	=	<u>5.0</u>
(2) Total FTE academic staff generated under a (4) above X 0.75	=	<u>4.1</u>

<sup>1</sup>Please note that the terms "full-time equivalent academic staff" and "full-time equivalent academic faculty" are given different meanings in the definitions (see Standards booklet) and are not interchangeable terms.

(3) Minimum number of FTE academic staff required to hold doctorate [(1) + (2)] = 9.1

(4) Actual number of FTE academic staff holding appropriate doctoral degrees [from Col. 7, Table III, A, 2, Item X (R + S = X)] (NOTE: See Standard III, B, 1, c and interpretation for definitions of appropriate doctoral degrees) = 15.83

d. Professional and teaching qualifications

(1) Total FTE academic staff generated under a (5) above X .80 = 14.3

(2) Actual number of FTE academic staff holding appropriate doctoral degrees [from Col. 7, Table III, A, 2--same number Item X as entered in c (4) above] = 15.83

(3) Actual number of FTE academic staff holding masters degrees, masters degrees and certifications, and professional degrees [from Col. 9, Table III, A, 2 above, Item W (P + Q = W)] = 3.16

(4) Total FTE academic staff holding appropriate degrees and/or certifications [add (2) + (3) immediately above] = 19.00

e. In the following table summarize full-time academic faculty changes which occurred between the fall term of the previous academic year and the fall term of the current or approaching academic year and which are reflected in Table III, A, 2 for each term. Changes should include additions and deletions to the staff, leave of absence returns and departures, and acquisition of doctoral degrees by existing faculty members.

Report to the Faculty  
of the College of Business Administration  
University of New Mexico  
Concerning the Accreditation of the College by the  
American Association of Collegiate Schools of Business

(February 1969)

I have studied your application and your University Catalogue in detail. Interviews were held with many of your faculty and your administrative colleagues. I inspected your new building and library collections.

The following are my considered judgments concerning the feasibility of the accreditation of your institution by the American Association of Collegiate Schools of Business.

STRENGTHS

1. The University of New Mexico has a good national reputation. This tends to reflect on the School of Business and Administrative Sciences.
2. Your salary scale, while somewhat low, is reasonably acceptable.
3. Your new building is impressive because of private offices, computer, and research facilities.
4. There is the requisite amount of faculty democracy in curriculum building and faculty recruitment.
5. The 9 hour teaching load is well within the Association maximum of 12 hours. Remember the total number of hours a professor teaches must be counted whether on or off campus, for extra compensation, etc.
6. Your ratio of credit hours taught by terminally qualified people at the undergraduate level; i.e. PhD, DBA, MBA, plus CPA for Accounting; and LLB or JD for Law; are well within the Association Standards. By the way, this is a very crucial factor and should not be allowed to slip.

7. The College seems to be held in relatively high regard by the University administration.
8. Some of the innovations concerning courses and College organization will create a favorable impression.
9. The College adheres to the core areas as specified by the Association.
10. Your standards for admission of new and transfer students are very respectable.

#### WEAKNESSES

1. The faculty is too small for the number of students in the College and the program you have. The student faculty ratio should be below 25 to 1. There is no rigid Association standard on this, however.
2. There is a serious problem concerning the overall excellence of the faculty. This is probably the most important single factor which will make or break your accreditation. There must be displayed a considerable amount of current research and publication being done by a significant portion of your faculty. I, personally, don't see enough evidence on paper to be sure you have a research oriented segment of your faculty. Ordinarily "Bureau" type research and publication is given little status. I would urge you to have your people "get some things out." If you can, recruit some people with research underway or who already have a good publication list.
3. You have too many part-time faculty. The Association views, with some exceptions, part-time teaching faculty as a liability since they are normally not productive in any other way, they do little writing and research, they do little counseling of students, they don't help in curricular development, they don't read the literature, etc. I would combine many of these part-time jobs into full-time positions and recruit full-time people with a research orientation.

4. Many of your professors have too many preparations each year. The Association maximum is five per year and that is considered too many by most visitation teams. Four is more reasonable and should be adhered to.

5. You seem to have an inordinate number of courses for a faculty of your size.

6. It would be inappropriate to have a Ph.D. degree program functioning before you have accreditation of your undergraduate program mainly because of the psychological effect on the Visitation Team and the Association.

#### CONCLUSIONS

Your accreditation will hinge on whether the Visitation Team and the Association feel your faculty is large enough relative to your program and distinguished enough to meet the standards of the Association. In my judgment, you have a fair chance. If you continue to improve as you have by getting increased productivity from your present faculty and securing some additional faculty with promise, you probably will have a better chance in 69-70.

William Voris  
Dean, College of Business and  
Public Administration  
University of Arizona

## APPENDIX E

## FACULTY EXCELLENCE

Using this strategic plan as the faculty's primary recruiting document, the School of Business and Administrative Sciences has been able to attract these outstanding young Ph.D.'s from the nation's most distinguished universities:

Assistant Professor Richard Reid - Ohio State University

Associate Professor Roger Jehenson - Yale University

Assistant Professor Donald Simonson - University of Michigan

Assistant Professor Stephen Stoller - University of California  
(Berkeley)

Assistant Professor Walton Taylor - Pennsylvania State  
University

These new faculty added to the already strong faculty of the School represent the single most important indicator of the School of Business and Administrative Sciences' current strength and future potential.



### The Internship Program

This program as outlined below, is another example of the leadership of the School of Business and Administrative Sciences. This program was put into action in September 1970, and has been expanded each semester since that time. The report "Less Time . . . More Options", published in March 1971 by the Carnegie Commission on Higher Education underscores the need for this type of program in higher education.

The School, in establishing the Internship Program, used the following guidelines:

1. The Internship Program will be a meaningful experience between the Intern and a participating business, whereby the Intern is given the opportunity to observe and experience (at least for part of the time that he spends "on the job") the functionings of management; to the end that the Intern will gain insight into the inter-relationship between his course work and the practical application of that course work. In addition, this work experience will allow the student the opportunity to finance, at least partially, his second year of study which, by most standards, is the most demanding of his time.

2. To assure the success of the Program, and recognizing that many questions relating to the Program cannot be answered until the Program has been operating for a period of time, the School, during the first year of operation of the Program, will limit the Program to between six and twelve students and a similar number of businesses.

3. Participating businesses will be selected on the advice of the Advisory Council. It is submitted that the success of the Program will in large measure be determined by the extent to which a participating business adheres to the spirit of the Program. Thus the School suggests the following guidelines be used by the Advisory Council in selecting a participating business:

- a. That the major consideration is the understanding and acceptance by the management of the participating business of the philosophy of the Program, and that such management will knowingly act in relation to the Intern in a manner consistent with that philosophy.

- b. That no less than 20% of the Intern's time be spent as an observer of management functioning in a management capacity. (It is recognized that the balance of the Intern's time will be spent in activities which management feels best suits its interests in the light of the Intern's background, ability, etc.)

c. That the employment relationship between the participating business and the Intern be for one year and be full-time during the summer months and part-time (say 20 hours a week) during the normal school year.

d. That beyond the general criteria mentioned in a, b and c above, the School will not be involved in other "usual terms and conditions of employment," this being a matter solely between the participating business and the Intern.

e. That at the end of one year of relationship between the participating business and the Intern, the participating business will fill out a questionnaire (to be created by the School) and forward the same to the School.

4. Students shall be selected by the School in the following manner:

a. Existence of the Program shall be made known to all students in the School by announcements, posting, etc.

b. When the specific business concerns which are participating are known, the students shall be notified.

c. This notification shall indicate that, within broad general outlines, the Internship with the banks would most likely interest finance majors, etc.

d. Students interested in participating shall then see the nominal heads of the various areas of study who shall make the student selection. Such selection shall give preference to top graduate students.

e. It will be the sole responsibility of the Intern to maintain the employment relationship between himself and the participating business, and to assure that the relationship stays within the philosophy of the Internship Program.

5. The School will give up to six hours of course credit to an Intern who meets the following criteria:

a. That the involvement of the Intern and the participating business be for a one-year period--full-time during the summer, part-time during the normal school year.

b. That the questionnaire to be answered by the participating business indicates a satisfactory performance by the Intern.

c. That the Intern present a paper satisfactory to the School which will cover the relevancy of his period of Internship with his normal course material.

6. At the end of the first year the School and the Advisory Council will evaluate the Program.

At that time consideration will be given to making any necessary changes, additions, etc. For example, consideration might well be given to formalizing a participating business' involvement in the Program by establishing "The ABC Corporation Internship," and publicizing that fact, as well as the criteria for the same, in appropriate School publications.

#### THE EXECUTIVE PROGRAM

The School of Business and Administrative Sciences accepts as part of its educational mission the development of a program of continuing, life-long management education for private and public organization executives.

It is our goal to improve the practice of management, which consists of the artful application of scientific principles to problem solving. Efficient decision-making will aid business and government leaders to better utilize their organization's scarce resources.

The Executive Program is proposed as a fundamental step in that direction. Its goal will be to increase the understanding of modern administration principles, to improve awareness of new developments in decision theory, management technology, and organizational concepts. Interest is focused upon new mathematical tools and computer science, as well as the wide range of political, economic, and social factors influencing organizational planning and strategy.

The planned program of study will seek to bring order to the mass of management information, and will explore the interrelationships of all elements in the management process. In so doing, new insights into managerial performance will be gained.

The Executive Program offers the flexibility of a two-semester course of study culminating in the Executive Program Certificate or, optionally, an additional year of work leading to the Master of Industrial Administration degree. Either option will provide a beneficial foundation for a series of seminars, symposiums, and management conferences designed to fulfill our commitment to provide continuing, life-long education for New Mexico's management personnel.

### Three Phases of the Executive Program Keyed to Personal and Professional Growth

#### PHASE I Foundation

The first phase of the Executive Program is scheduled to begin in September and continues for nine months. Upon successful completion, all participants will be awarded the Executive Program Certificate.

Six specially designed courses serve to acquaint program participants with modern concepts of management. Intuitive habits will be fortified with scientific, interdisciplinary methods of decision-making. Systems orientation is stressed throughout.

Classes are scheduled for all-day sessions on Friday and Saturday of every second week to permit busy executives to continue in their business capacities without an undue inconvenience.

Study and preparation for courses involves reading, research, and group discussion meetings in addition to regular class sessions.

Those in the Executive Program have the option of applying credit earned in this certificate program to the second phase of the program, which leads to the Master of Industrial Administration degree. Eighteen hours of course work in the first phase of the program may be applied toward the higher Master's degree, but all applicants must fulfill all entrance requirements of the University of New Mexico Graduate School.

CREDIT HOURS, TOTAL: EIGHTEEN

Program Leads to Executive Program Certificate

These Disciplines provide the Foundations for Scientific  
Problem Solving in Management Practice

#### MANAGEMENT SCIENCE

- Operations Research
- Statistical Analysis
- Managerial Economics
- Systems Analysis and Decision Making

#### ORGANIZATIONAL BEHAVIOR

- Human Resources Management
- Administrative Theory and Behavioral Concepts
- Interpersonal Dynamics
- Organizational Design and Development

**MANAGEMENT CONTROL**

Managerial Accounting and Financial Control  
Management Information Systems  
Computer Science

**ORGANIZATIONAL ENVIRONMENT**

Political and Legal Systems  
Economic and Social Systems  
International Business

**OPERATIONS**

Finance, Marketing, Production  
Planning and Strategy

**PHASE II  
Application**

The second phase of the Executive Program is offered as an option. Candidates may apply for admission into the Graduate School of Business and Administrative Sciences after successful completion of the Executive Certificate Program. Two additional semesters, plus two summer sessions are required to complete the Master of Industrial Administration degree.

The thirty-two hour program is based upon regular graduate level course offerings in the School of Business and Administrative Sciences.

This program is designed to augment the basic skills introduced in the Executive Program. Through vigorous participation in group discussion and case study methods, candidates will practice problem solving and decision making in simulated situations. Every effort will be made to draw upon the valuable management experience of those enrolled in the program.

A strenuous pace is guaranteed, but the advantages of working closely with carefully selected faculty members from the business school as well as from other institutions will be very rewarding. Concurrently, participants will enjoy meeting and working with other candidates having similar interests and levels of responsibility.

To avoid obsolescence in a constantly changing environment, it is essential to continually update one's education while at the same time gaining a higher level of personal development.

Both options, Phase I and Phase II, furnish a solid base for continuing, life-long education, which is the goal of Phase III of the Executive Program.

CREDIT HOURS, TOTAL: FIFTY  
(Includes 18 hours from Certificate Program)

Program Leads to Master of Industrial Administration Degree

Intensive Application of Functional Knowledge and Research  
through Case Study and Game Techniques

ACCOUNTING

MARKETING

INDUSTRIAL RELATIONS

ORGANIZATIONAL DEVELOPMENT

OPERATIONS RESEARCH

ADMINISTRATIVE RESEARCH

FINANCE

OPERATIONS

INTERNATIONAL BUSINESS

ORGANIZATIONAL BEHAVIOR

PHASE III  
Continuing  
Education

Either option, Phase I or Phase II, will offer a solid base for continuing life-long education, which is the purpose of Phase III of the Executive Program.

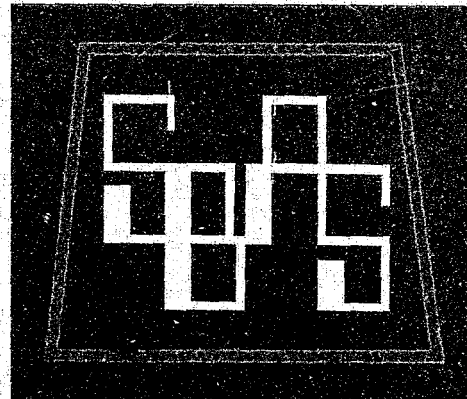
Education is not a goal that can be attained at any given point in time and then forgotten. It is an on-going process. In today's environment, it is important that our technical skills need frequent updating and improvement. Less tangible but equally important is the process of personal growth and increased intellectual maturity that accompanies our pursuit of knowledge through formal education.

Through such efforts as the Executive Program, a closer harmony will be created between academic and business communities: a condition we feel will mutually benefit both sectors, while at the same time contributing to the healthful development of New Mexico as an even better place to live.

The University of New Mexico will offer a series of management seminars, conferences, and symposiums to continue the executive-level educational process.

# THE EXECUTIVE PROGRAM

UNIVERSITY OF NEW MEXICO  
SCHOOL OF BUSINESS  
AND ADMINISTRATIVE SCIENCES



# Three Phases of the Executive Program

## Keyed to Personal and Professional Growth

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CREDIT HOURS, TOTAL: EIGHTEEN

*Program Leads to Executive Program Certificate*

*These Disciplines provide the Foundations for Scientific Problem Solving in Management Practice*

### MANAGEMENT SCIENCE

- Operations Research
- Statistical Analysis
- Managerial Economics
- Systems Analysis and Decision Making

### ORGANIZATIONAL BEHAVIOR

- Human Resources Management
- Administrative Theory and Behavioral Concepts
- Interpersonal Dynamics
- Organizational Design and Development

### MANAGEMENT CONTROL

- Managerial Accounting and Financial Control
- Management Information Systems
- Computer Science

### ORGANIZATIONAL ENVIRONMENT

- Political and Legal Systems
- Economic and Social Systems
- International Business

### OPERATIONS

- Finance, Marketing, Production
- Planning and Strategy



## PHASE II Application

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To avoid obsolescence in a constantly changing environment, it is essential to continually update one's education while at the same time gaining a higher level of personal development.

Both options, Phase I and Phase II, furnish a solid base for continuing, life-long education, which is the goal of Phase III of the Executive Program.

**CREDIT HOURS, TOTAL: FIFTY**  
(Includes 18 hours from Certificate Program)

*Program Leads to Master of Industrial Administration Degree*

*Intensive Application of Functional Knowledge and Research through Case Study and Game Techniques*

- ACCOUNTING
- MARKETING
- INDUSTRIAL RELATIONS
- ORGANIZATIONAL DEVELOPMENT
- OPERATIONS RESEARCH
- ADMINISTRATIVE RESEARCH
- FINANCE
- OPERATIONS
- INTERNATIONAL BUSINESS
- ORGANIZATIONAL BEHAVIOR

## PHASE III Continuing Education

Either option, Phase I or Phase II, will offer a solid base for continuing life-long education, which is the purpose of Phase III of the Executive Program.

Education is not a goal that can be attained at any given point in time and then forgotten. It is an on-going process. In today's environment, it is important that our technical skills need frequent updating and improvement. Less tangible but equally important is the process of personal growth and increased intellectual maturity that accompanies our pursuit of knowledge through formal education.

Through such efforts as the Executive Program, a closer harmony will be created between academic and business communities: a condition we feel will mutually benefit both sectors, while at the same time contributing to the healthful development of New Mexico as an even better place to live.

The University of New Mexico will offer a series of management seminars, conferences, and symposiums to continue the executive-level educational process.

# The Executive Program Curriculum

## PHASE I

First Year

### FALL SEMESTER

	<u>Credit</u>
Strategic & Operational Planning	3
Organizational Economics I	3
Organizational Behavior	3
Semester Credit Hours	<u>9</u>

### SPRING SEMESTER

	<u>Credit</u>
Organizational Ecology	3
Financial & Managerial Accounting & Control	3
Management Science	3
Semester Credit Hours	<u>9</u>

18 TOTAL CREDIT HOURS

EXECUTIVE PROGRAM CERTIFICATE

## PHASE II

### SUMMER SESSION

	<u>Credit</u>
Quantitative Analysis I, II	6
Problems Course	2
Semester Credit Hours	<u>8</u>

Second Year

### FALL SEMESTER

	<u>Credit</u>
Accounting & Management Information Systems	3
Organizational Economics II	3
Seminar in Organizational Behavior	3
Semester Credit Hours	<u>9</u>

### SPRING SEMESTER

	<u>Credit</u>
Financial Management	3
Marketing Management	3
Operations Research & Production Management	3
Semester Credit Hours	<u>9</u>

### SUMMER SESSION

	<u>Credit</u>
Seminar in Integrative Management	3
Organizational Intelligence	3
Semester Credit Hours	<u>6</u>

32 TOTAL CREDIT HOURS

MASTER OF INDUSTRIAL ADMINISTRATION DEGREE

50 TOTAL CREDIT HOURS, INCLUDING CERTIFICATE PROGRAM (PLUS TEN HOUR WAIVER FOR MANAGERIAL EXPERIENCE)

# The Executive Program Course Descriptions

## PHASE I STRATEGIC & OPERATIONAL PLANNING

### First Year

A synthesis of planning theory and practice. The role and performance of diagnostic-prognostic audits of the resources and environment of the firm. Strategic (long-range) planning, including corporate mission, objectives, strategies, and policies. Operational (short-range) planning, including goals, work programs, budgets, action plans, and controls for detection and correction.

#### ORGANIZATIONAL ECONOMICS

A fundamental grasp of economic theory, both macro and micro, as it relates to the internal operations of the organization; relationship of the organization to the external economic environment, both national and international.

#### ORGANIZATIONAL BEHAVIOR

Intensive examination of behavioral science research and theory as a basis for understanding human behavior in organizations. Emphasis is upon a comparative approach which views every organization as a socio-technical system.

#### ORGANIZATIONAL ECOLOGY

The nature of environmental change on the structure and operation of the organization; social, political, legal, ethical and technological systems are examined as they relate to each other and to the management of small and large scale organizations.

#### FINANCIAL & MANAGERIAL ACCOUNTING & CONTROL

The use of financial and managerial accounting data as tools for executive action. This course examines accounting as a systematic approach to evaluation of the total performance and status of an enterprise and as an aid to management in making current decisions, planning future activities and maintaining operational control.

#### MANAGEMENT SCIENCE

The elements of management science as an applied quantitative approach to solution of administrative problems. Basic mathematical and statistical ideas are followed by study of determinate and probabilistic models employed in management science, and selected case studies where these models have been developed and applied. Topics include optimization models and mathematical programming, Bayesian decision theory, Markov processes, and computer simulation. Emphasis is placed on understanding of the essential elements in quantitative management science, its power and versatility as well as its limitations.

## PHASE II QUANTITATIVE ANALYSIS I

### Second Year

Mathematical foundations of quantitative analysis of administra-

tive problems. Linear systems and matrix algebra, introduction to differential and integral calculus, set theory, and probability. Applications to business and administrative situations.

## QUANTITATIVE ANALYSIS II

Statistical methods for decision making and analysis of administrative problems. Significance tests and decision procedures, Bayesian decision theory, and multi-variate statistical methods. Applications to business and administrative situations. Prerequisite B&AS 500 or equivalent.

## ACCOUNTING & MANAGEMENT INFORMATION SYSTEMS

An examination of the basic concepts, principles, and postulates of financial accounting theory and their relation to the objectives of income determination and asset valuation. Emphasis is on financial statements as a source of economic data and investor information. Topics include the financial accounting model, theories of valuation, data accumulation and analyses, and funds flow.

## ORGANIZATIONAL ECONOMICS II

Concepts, methods, and techniques of applied economic analysis to a wide range of problems and decisions of the organization; product/service competition, profits, cost, demand, price, promotion, and capital formation; benefit maximization under least cost constraints; planning, programming, and budgeting. Prerequisite B&AS 505 or equivalent.

## SEMINAR IN ORGANIZATIONAL BEHAVIOR

A critical evaluation is made of the modern systems approach to organizational decision-making. An appraisal of traditional theory followed by an examination of current theory and its relationships to policy, planning and control in light of the environmental factors of power, authority, leadership and communications within the organization.

## FINANCIAL MANAGEMENT

The finance function and its relation to other functions, and to general policy of the firm. Topics include: the finance function, analysis and budgeting of funds, management of current assets, financing short and intermediate-term needs, planning long-term debt policy and capital structure, capital costs and capital budgeting, dividend policy, valuation, mergers, and acquisition. Prerequisites: 503 and 505.

## MARKETING MANAGEMENT

Provides an understanding of the marketing decision-making process. Surveys normative models for decision-making in differ-

ent marketing situations. Various analytical tools available to the marketing executive for appraising, diagnosing, organizing, planning and formulating of marketing programs are discussed. Directed towards an understanding of the economic, social and political forces leading to change in the market place and the development of concepts that are useful in evaluating marketing situations, including the international setting.

#### OPERATIONS RESEARCH & PRODUCTION MANAGEMENT

This course builds on the mathematical and statistical foundations of B&AS 500-501 to offer a survey of the use of quantitative methods and models in the design and control of operating systems. Emphasis is on comprehension of operational problems and quantitative models in order to build a capability for intelligent management use of operations research. Prerequisite B&AS 501.

#### SEMINAR IN INTEGRATIVE MANAGEMENT

Emphasizes system-oriented, inter-functional planning and administration with an interdisciplinary approach. Applications of Information and Intelligence Systems as the basis for management action. A variety of case studies and projects are used to develop a capacity for administrative decision-making employing strategic and operational planning, and other integrative devices.

#### ORGANIZATIONAL INTELLIGENCE

An investigation of the development and applicability of intelligence system measuring and gathering techniques to organizational problems and decision-making; organizational and administrative processes of adaption to the external environment are analyzed in terms of information needs; underlying concepts and techniques related to information requirements of the external environment of the organization are explored and analyzed under situations of change, risk, and uncertainty.

## The Executive Program Faculty



**EDWIN H. CAPLAN**  
Professor of Business  
& Administrative  
Sciences

B.B.A., U. of Michigan, 1950; M.B.A., U. of Michigan, 1952; Ph.D., U. of California, 1965; C.P.A.

Major area: Management information and control systems; Behavioral implications of accounting.



**KARL CHRISTMAN**  
Associate Professor of  
Business & Administrative  
Sciences

B.S., Indiana U., 1948; M.B.A., Indiana U., 1952; C.P.A.

Major area: Accounting.

**RALPH L. EDGEL**  
Coordinator of  
Graduate Studies  
Professor of Business  
& Administrative  
Sciences



A.B., U. of Utah, 1932; M.B.A., Northwestern U., 1935.

Major area: Finance; Policy.

**HOWARD V. FINSTON**  
Professor of Business  
& Administrative  
Sciences



A.B. and M.A., Stanford U., 1948; Ph.D., Stanford U., 1953.

Major area: Organizational behavior, labor relations and organizational development.



**JAMES A. FITZSIMMONS**  
Assistant Professor of  
Business & Administrative  
Sciences

B.S.E., U. of Michigan, 1960; M.B.A., Western Michigan, 1965; Ph.D., U. of California at Los Angeles.

Major area: Management science, computer simulation techniques; application of management science in public systems analysis.



**WILLIAM H. HUBER**  
Dean of the University  
College  
Professor of Business  
& Administrative  
Sciences

A.B., Ohio State U., 1946; J.D., Ohio State U., 1947.

Major area: Law, political economic philosophy.



**ROGER H. JEHENSON**  
Associate Professor of  
Business & Administrative  
Sciences

B.A., U. of Louvain, Belgium, 1958; M.A., U. of Montreal, 1966; M. Ph., Yale U., 1970; Ph.D., Yale U., (Expected 1971).

Major area: Organizational behavior; psychology in administration; phenomenological social psychology.



**ROBERT A. LENBERG**  
Associate Professor of  
Business & Administrative  
Sciences

B.A., Brigham Young U., 1955; M.S., U. of Minnesota, 1959; Ph.D., U. of Minnesota, 1965.

Major area: Planning, organizational intelligence, integrative management, and marketing research.



**PERRY T. MORI**  
Professor of Business  
and Administrative  
Sciences

B.S.B.A., Northwestern, 1948; M.B.A., Northwestern, 1949; J.D., U. of New Mexico, 1965; C.P.A.

Major area: Accounting, law, and insurance.

**WILLIAM S. PETERS**  
Professor of Business  
& Administrative  
Sciences



B.A., Dartmouth College, 1946; M.B.A., Wharton School, U. of Pennsylvania, 1948; Ph.D., U. of Pennsylvania, 1954.

Major area: Statistical analysis, decision theory, and operations research.

**ROBERT R. REHDER**  
Dean and Professor  
of Business & Administrative  
Sciences



A.B., Depauw U., 1952; M.B.A., Indiana U., 1958; Ph.D., Stanford U., 1961.

Major area: Organizational behavior.

**RICHARD A. REID**  
Assistant Professor of  
Business & Administrative  
Sciences



B.S.M.E., Case Western Reserve U., 1962; M.B.A., Ohio State U., 1967; Ph.D., Ohio State U., 1970.

Major area: Systems analysis, operations research.



**DONALD GRANT  
SIMONSON**  
Assistant Professor of  
Business and Administrative  
Sciences

B.S., U. of Illinois, 1956; M.S., Purdue U., 1963; Ph.D., U. of Michigan, 1971.

Major area: Finance.



**DANIEL M. SLATE**  
Professor of Business  
& Administrative  
Sciences

B.S., U. of Washington, 1952; M.A., U. of Washington, 1956; Ph.D., U. of Washington, 1961.

Major area: Competitive processes of the firm.



**STEPHEN D. STOLLER**  
Assistant Professor of  
Business & Administrative  
Sciences

A.B., Harvard U., 1965; Ph.D., U.C. at Berkeley, 1971.

Major area: Economics and ecology.

**WALTON R. L.  
TAYLOR**  
Assistant Professor of  
Business & Administrative  
Sciences



B.S., Sacramento State College, 1966; Ph.D., Pennsylvania State U., (Expected 1971).

Major area: Working capital management, portfolio theory, operations research, mathematical statistics.

**LOTHAR G. WINTER**  
Professor of Business  
& Administrative  
Sciences



B.B.A., College of Trade and Commerce, Koenigsberg, Germany; M.A. (Dipl. rer. Pol.); Ph.D. (Dr. rer. Pol.), University of Freiburg, Germany.

Major area: International business management, environmental intelligence systems, marketing research and management.

**JOHN A. YEAKEL**  
Assistant Professor of  
Business & Administrative  
Sciences



B.S., Pennsylvania State U., 1957; M.S., Pennsylvania State U., 1962; Ph.D., U. of Florida, (Expected 1971).

Major area: Financial and managerial accounting theory, business mergers.

## ADMISSION

Candidates must be nominated and sponsored by their organization, have demonstrated mature administrative competence, and possess intellectual curiosity. Personal interview by the Director of the Executive Program is required. Maximum enrollment is fifty, minimum thirty. Participants working toward an M.I.A. degree must fulfill all UNM Graduate School admission and academic requirements.

Applications should be received by the School no later than June 1.

## DATE

Tentatively, the Executive Program will be offered every year and will begin on September 1. Class meetings will be held two days every other week on Friday and Saturday. Courses will be conducted from 8:30 a.m. to 5:30 p.m. including a one-hour luncheon break.

## COST

\$1800 covers tuition, materials, and supplies for the first year Executive Certificate Program. The charge for the second year M.I.A. program will consist of regular UNM fees. A limited number of scholarships are available.

## PARTICIPANTS

Managers from all functional areas of business and government in New Mexico. Minimum of 3-5 years of managerial experience in line or staff positions. Participants in the Executive Program are expected to retain full job responsibilities while in attendance.

## TEACHING METHODS

A full range of teaching methods will be used, applying each where it is most effective. The case study, group discussions, the syndicate method, simulation techniques and business games are frequently used. The courses are integrated around the concerns and responsibilities of general management. There is special emphasis on the sharing of experiences through class discussion.

*For Additional Information Contact*

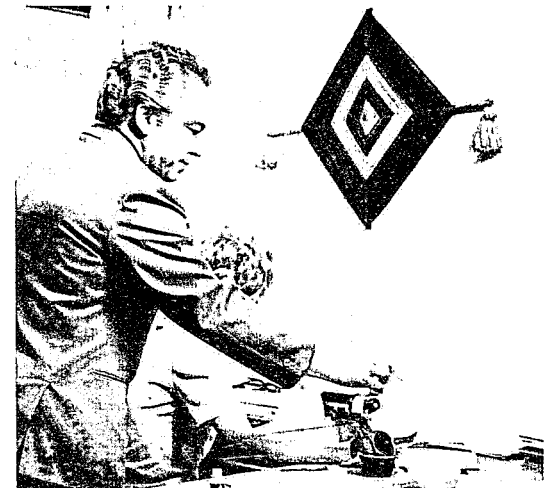
**DR. LOTHAR G. WINTER**

Executive Program Director

Phone 277-3248

School of Business and Administrative Sciences

The University of New Mexico



**DR. LOTHAR G. WINTER**  
Executive Program Director  
and Departmental Secretary.

School of Business and Administrative Sciences

THE REPORT OF THE DEPARTMENT OF ART EDUCATION  
July 1, 1970 - June 30, 1971  
Donald J. McIntosh, Chairman

I. General Department Information

A. Significant achievement during the academic year 1970-71.

In the elementary student teaching program (Art Education 400 and 401) the art center concept was extended to four elementary schools (Comanche, Yucca, Kit Carson and Barcelona) in the fall semester of 1970-71 under the supervision of Professor Richard G. Hough. Thirteen student teachers were involved in developing these elementary art centers. In the spring semester, fifteen master students structured new programs and supervised the Department's pre-student teachers' (Art Education 220) experience in the four elementary art centers. The masters internship program was in turn supervised by Professors Vogel, Townsend and McIntosh from the University and Messrs. McCulloch, Howel and Johnson, art teachers from the Albuquerque Public Schools.

In the secondary student program (Art Education 461 and 434) three new high school centers were established in the spring semester 1970-71 to extend the program developed at Highland High School in the two previous semesters. These art centers were at Sandia, Del Norte and the Institute of American Indian Arts in Santa Fe. Thirty student teachers took their secondary student teaching in these centers. Their programs were supervised by Professors McIntosh and Joplin.

The concept underlying the art center idea in reference to student teaching is the increased exchange of art teaching

experience among the University students. There is also a considerable enrichment of the art experience for the high school students. The Department has on hand and is prepared to show material including recommendations, slides, administrative reports, student diaries, etc. to testify to the enthusiastic support of the art center student teaching program from all involved. Perhaps the most evident support of the program, however, is the endorsement by the Albuquerque Public Schools' Administration of the Department's proposal for a further development and coordination of art education by the Albuquerque Public Schools and the College of Education.

The Department offered as an additional support for the pre-teaching program and intern teaching experience, an elementary art for children program on Saturday mornings and a high school art program on Thursday nights. In each semester four classes of twenty students each were offered on Saturday mornings including a pre-school section, three classes on Thursdays and four in the summer session. Professor Vogel directed this program and coordinated the Art Education 220 pre-student teaching with the children's classes and the Albuquerque Public School centers. Highlighted by semester end art shows, the program has proved popular with the children and student teachers alike.

The Art Education Department (Professor McIntosh assisted by Ivan Wright and Keith Rousseau) gave a Model Cities Filmmaking Workshop and Film Series in summer session 1970 in the Model



Cities Center. Fifty per cent of class enrollment in a fall Thursday evening high school class in filmmaking plus two extension scholarships in the fall graduate workshop in filmmaking were presented to Model Cities residents. The results were filmmaking classes being conducted by Model Cities people in the area during spring semester.

Classes in Art Education were presented in Gallup during fall and spring and in Crownpoint in the spring by Wilfred Eriacho, Department masters graduate.

Our workshops, particularly Katherine Arviso's Indian Arts and Crafts and Indian Weaving, brought cross-cultural experiences and awareness to Indian, Chicano and Anglo students alike.

A highly successful state-wide film festival was organized and run this spring semester by four Department students, Ivan Wright, Keith Rousseau, Stan Hirsch and Frank Walsh.

B. Number of students.

Seventy-two students applied to the Department in the academic year from summer session 1970 through fall 1970-71 and spring 71. Sixty-four were accepted and fifty-two out of sixty-six were accepted in the previous academic year.

The Department has sought to refine its screening procedure by requiring two further steps beyond the College test and the customary interview. All Art Education students are required to bring a portfolio of art work so that the faculty can review the potential art ability of the candidate. More important

for both student and Department is the inclusion of Art Education 220 (pre-teaching) in the screening procedure. Students are required to succeed in this pre-teaching experience before being admitted to the Art Education Department. Under faculty guidance and counseling the candidates have also the opportunity to decide for themselves the suitability of careers in art education.

There has been a noticeable increase of courses and sections offered. The student credit hours show a similar increase. Part of the increase has taken place in the area of our service program (Art Education 110, 115, 120, 121, 130, 401, etc.). The Department has limited these classes to generally thirty students as that number is the maximum number appropriate to laboratory teaching in our facilities. We have moved to diversify the 110 and 115 sequence by offering both in all three semesters. A noticeable aspect of this program was the achievement of the two sections of 115 given specifically for C.O.P. students by the Department Graduate Assistant, Jon W. Hardwick. Summer session, which is beginning to approach a properly balanced program appropriate to a college of education, also accounts for some of the growth of course and section offerings. The Masters Program has been strengthened through increased course offerings, an internship program and a general beginning on revision of the internal seminar and advisory-screening system. The improvement in the Art Education program

has been supported by the College of Education Administration with improved facilities, increased faculty and the use of supplementary part-time teachers where required. Next year's faculty for example will consist of five full-time professors, two half-time adjunct professors, four full-time masters coordinators and two graduate assistants as compared with 1969-70 two professors, two instructors and two graduate assistants. Similarly the facilities of the Department now include filmmaking capacity, a darkroom, two new kilns, including an outside gas kiln built by Professor Townsend and his students, a caged enclosure for the shop tools, three new offices with increased building supervisory capacity, increased locked storage, etc. In addition the supply situation has noticeably improved and new equipment such as wheels, grinders, looms, etc. has been obtained through the efforts of faculty, especially Professor Vogel in teaching extension classes. Better use of these facilities has been developed by the scheduling of four hour labs, of late afternoon and evening classes and by using Room 124 and other areas as well as the Art Education Building.

While the Department feels it is coming closer to offering an effective art education program it shares deep concern with the College in reference to the poor employment opportunities now existant for our graduates. 21 undergraduate students and 7 graduate students got degrees from our program this academic year.

Approximately 20% of the masters graduates were looking for employment. Most of the bachelors graduates are also looking for employment. There were as near as can be determined no more than 10 positions for art teachers available in Albuquerque over the academic year and these were due more to retirements, promotions and resignations than to new positions. The Art Education Department notes that Albuquerque has no elementary art education program in any way comparable to other major urban centers of its size. The secondary art program is also smaller and more limited than most. The Art Education Department has and will extend its efforts to improving the State art education situation, particularly in the area of opening the professional field to new and competent art teachers. For example, the Art Education Department sponsored, programmed and hosted a three day highly successful spring State Art Education Conference at the D.H. Lawrence Ranch for the New Mexico Art Education Association. Professor McIntosh is the Vice President of the Association. The Art Education Department hopes through its new program with the Albuquerque Public Schools to effectively influence and improve art education at both the elementary and secondary level.

C. Plans and recommendations.

In the Masters Program, the Department has plans for a faculty and graduate student conference early in the fall semester to review and make recommendations. Some of the areas

to be further developed are screening, study committees, advising, Department seminars, programs, student organizations, etc. The Art Education Department has then arranged to approach the Graduate School and its Deans to clarify philosophical and professional issues and to mutually develop an increasingly effective graduate art education program.

The Art Education Department will put into operation a three year proposal to further the cooperation between the Albuquerque Public Schools and the Art Education Department in developing the teaching and supervision of art in Albuquerque.

The Art Education Department proposes to present a cross-culture awareness program for art educators evolving from the workshop classes given by Katherine Arviso and supported by Paul Kravagna, Teaching Indian Arts and Crafts (summer session 1971), Teaching Indian Weaving (summer session 1970), and Teaching Southwest Weaving (spring 1970).

D. Appointment to staff.

James Srubek and Philip Peterson will be joining the faculty as Assistant Professors in August, 1971. Frank McCulloch and Richard Johnson will be two new Adjunct Professors in August. Also, there will be four Coordinators who will work with the Albuquerque Public School Art Center Program. The Coordinators are Wayne Pritchard, Joan Olson, Mary Lynn Perry and Mary Jo Shivel.

E. Separation from staff.

Richard G. Hough - July 9, 1971

II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced study:

Neal Townsend: Completed graduate level course Semester II, C&I 481, Education Across Southwest Culture.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel:

Donald J. McIntosh: Taught a Filmmaking Workshop for Model Cities. Film for Model City residents' program.

3. New scholastic honors, fellowships, etc.

Beverly S. Vogel: Promotion to Assistant Professor.

4. Publications:

Beverly S. Vogel: Co-author and illustrator for Help Them Grow, Abingdon Press, Spring, 1971 (pages approximately 75).

New Mexico State Guide for Teachers of the Trainable Handicapped, illustrator. New Mexico State Department of Education, Spring, 1971.

Illustrations for speech booklet for Mental Development Center, BCMC Fall, 1970.

5. Other research projects:

Richard G. Hough: Research Allocation Committee Research Grant in progress to determine the feasibility of using commercial painting techniques in teaching art in the classroom.

Beverly S. Vogel: Paintings and print-making. Compiling project descriptions in preparation for Department sponsored elementary art teaching guide.

Neal Townsend: In preparation for one-man show of ceramics at the Studio Gallery, Albuquerque - September 8-31, 1971.

6. Activities in learned and professional societies:

Richard G. Hough: New Mexico Art Education Association meeting in Taos.

Donald J. McIntosh: Vice President of New Mexico Art Education Association. Program Director New Mexico Art Education Association. Attended State Meeting of NMAEA in Taos and the National Convention in Dallas. During the Dallas Convention, selected and presented pre-school and nursery films and filmmakers, intermediate children's films and secondary films and filmmaking with Professor John Lidstone from Queens College, New York. Organization and hosting of the NMAEA spring convention March 26-28 at the D. H. Lawrence Ranch.

Beverly S. Vogel: Attended the New Mexico Art Education Association State Convention in Taos, March, 1971. Arranged and helped hang the accompanying art show of state art educators. Attended National AEA Convention in Dallas, April, 1971.

Neal Townsend: Attended Southwest Regional Conference of the American Craftsmen's Council, University of Utah, Salt Lake City, Utah in March, 1971. Attended the spring meeting of the New Mexico Art Education Association in Taos, March, 1971. Attended the 1971 National AEA Convention in Dallas, April.

Donald Joplin: Attended both State and National Conventions of the Art Education Association.

7. Other professional activities:

Donald J. McIntosh: Taught children's art classes at Albuquerque High School and Old Town Elementary School. Exhibited two paintings at the NMAEA Show at Taos, March, 1971. Sponsored State High School Film Festival in the spring 1971. Taught filmmaking for high school students in the fall for Continuing Education.

Beverly S. Vogel: Exhibited three paintings at NMAEA Show in Taos, March, 1971. Workshop for aide training program and Albuquerque Public School Buena Vista Center for Trainable Handicapped, Art for the Trainable Retarded, April, 1971.

Neal Townsend: Lecturer in jewelry-making and art for youth for Continuing Education Center, Semester II, 1971. Participated in group exhibition at the Mission Gallery, Taos, New Mexico as part of NMAEA Conference.

Donald Joplin: Taught art class at Albuquerque High School.

8. Non-teaching University service:

Richard G. Hough: Undergraduate Curriculum Committee, College of Education. Student advisor and member of five masters oral committees.

Donald J. McIntosh: Administrative Committee, Graduate Curriculum Committee, Committee to Investigate Graphic Arts Teacher Training (Chairman) - all College of Education.

Beverly S. Vogel: Coordinator for non-credit art courses, Continuing Education. Coordinated children's and youth art program for Continuing Education. Learning Materials Committee, College of Education.

Neal Townsend: Member of ten masters' oral comprehensive committees. Appointed to College of Education Environmental Education Committee. Acting Department Chairman June 7 to August 12, 1971.

9. Public service:

Beverly S. Vogel: Directed and taught Girl Scout troups pursuit of drawing and painting badge, September, 1970.

10. Personal information:

Richard G. Hough: Resigned position to spend 1971-72 in full-time creative work.

Beverly S. Vogel: Divorced, January, 1971.



## THE REPORT OF THE DEPARTMENT OF EDUCATIONAL ADMINISTRATION

July 1, 1970 - June 30, 1971

Ronald E. Blood, Chairman

I. General Departmental Information

## A. Significant achievements during the academic year, 1970-71

1. The Department continued its implementation of the recommendations made by the Curriculum Study Committee last year. In line with the recommendations, a course has been initiated relating to Administration and Minority Groups. As instituted, the course deals with the basic question of what different administrative behaviors are called for when the school's population is culturally diverse.
2. A new course, Survey of Educational Administration, has also been developed. This course will provide students with a sampling of the departmental faculty. Each Department member will interact with the students around the professor's basic skill area.
3. The Department is continuing to make accommodation for an increasing number of students in residence by increasing the day-time offerings. This past semester three such courses were offered and with good enrollments.
4. In order to increase the range of research skills available to students, the Department is instituting a course in participant observation as a research skill.

- 2 -

5. The Department hosted three guest lecturers during the past year: Lawrence Iannaccone, Ontario Institute for Studies in Education; Louis Smith, Washington University; and Carlos Cortes, University of California at Riverside. As in the past, we have continued the practice of providing an opportunity for the students to meet in small groups with the visiting lecturers. This is in addition to the formal presentations made by the visitors.
6. The Department has continued its efforts to increase the effectiveness of our relationships with the school districts in New Mexico. We have been pleased that during this past year the Department was requested for the first time to provide inservice training activities for Albuquerque Public School administrators.
7. The Department's relationship with the National Network of Professors of Educational Administration has continued to prosper. Dr. Burlingame completed a successful year as a staff affiliate to the University Council for Educational Administration. The Department hosted an area meeting sponsored by UCEA. In addition, Drs. Burlingame and Holemon have been appointed to the Program Committee, Division A, American Education Research Association.

B. Significant plans and recommendations for the near future:

1. Our attempts to develop an internship program have not reached fruition, but we hope that next year we will be able to bring the program into being.
2. The Department has increased its attempts to recruit students of excellence into the program. We have not as yet reached a point of satisfaction and will continue these efforts aggressively.

C. Appointments to staff:

1. Dr. Ronald Blood was appointed Chairman succeeding Dr. Richard Holemon who was appointed to the position of Associate Dean, College of Education.
2. Dr. Paul Petty rejoined the Department after two years absence during which he was employed as Chief of Party on the Columbian Project.

D. Separations from staff:

1. For the first time in some long number of years the Department lost no personnel. It is hoped that some degree of stability will be achieved in order to implement a planned and stable program.

## II. Program Report

### A. Number of Students in Program:

There was a total of 382 students enrolled in Educational Administration courses during Semester I and II, 1970-71. Student credit hours for these courses total 1,171.

### B. Selection Procedures for Students:

#### 1. Master's Program:

Students applying for the Joint Master's Program, in addition to the Graduate School requirements, are asked to supply three letters of reference and a score on the Miller's Analogies Examination. The applicants are also interviewed by a Department member. The Department forwards its recommendation to the cooperating Department, either Elementary or Secondary, who in turn assess the student's file.

#### 2. Education Specialist Program:

The applicant for the Education Specialist Program, in addition to Graduate School requirements, is asked to supply three letters of reference, a score on the Miller's Analogies Examinations. A committee of three professors interview the applicant and makes a recommendation as to his admittance into the program.

### 3. Doctoral Program:

The applicant for the doctoral program, in addition to the Graduate School requirements, is asked to supply three letters of reference, a score on the Miller's Analogies Examination and a sample of his written work. The applicant is interviewed by a committee of three professors who recommend action on the student's application.

### C. Internal and External Review:

1. The Department has undertaken a review of its doctoral programs. The review has not as yet been completed but the Department has raised basic issues, especially related to differences in the Ed.D. and Ph.D. Programs.
2. It is anticipated that in the ensuing year the Specialist and Master's Programs will also be reviewed.

### D. Follow-up of Graduates:

1. The follow-up of graduates remains on an informal basis. The Department does though recognize the need to develop a more thorough going process. It is hoped that a college-wide process would be established so that useful data could be gathered on other than departmental lines.

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E. Evidence of Teaching Effectiveness:

1. Most Department members are now utilizing formal procedures to involve students in evaluation of their effectiveness. This is not a formal requirement instituted by the Department but rather has developed in an easy and spontaneous manner.
2. The Department also receives feedback on the member's teaching effectiveness through the process of joint teaching of courses and also through direct meetings with our graduate students.

F. Class Size:

1. Class sizes are currently at a satisfactory level within the bounds of graduate level teaching.

G. Sources and Adequacy of Support:

1. Sources of support for the Department remain essentially those normally referred to as "hard" money. The resources available from the University remain inadequate, especially in relation to faculty and staff salaries. Students' support remains inadequate.
2. The Department this year was able to generate some "soft" money support but in no way does it solve the basic problems of inadequate support.

III. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study.

Paul A. Pohland: Ph.D. Washington University, St. Louis, Mo. on August 30, 1970 - "An Interorganizational Analysis of An Innovative Educational Program."

2. Sabbaticals, leaves, etc.

John A. Aragon: Secretary of Navy Guest for cruise aboard U.S.S. Kitty Hawk to Pearl Harbor. Visited all naval, marine and army installations in Hawaii. Advised Naval Pacific Command on matters of staff morale.

Richard F. Tonigan: Guest of Ford Foundations Early Childhood Conference, University of Michigan, November 1970. Consultant on Brazil's Secondary Education Expansion Program, July 1970, Rio de Janero and San Paulo. Consultant to Bureau of Indian Affairs on Development Haskell Jr. College, Lawrence, Kansas.

3. New scholastic honors, etc.

Ronald E. Blood: Selected outstanding alumni, Shasta College, Redding, California.

Martin Burlingame: University Council for Educational Administration - Staff affiliate, 1970-1971.

Richard F. Tonigan: Awarded distinguished service plaque at Council of Educational Planners Conference, Oklahoma City, October 1970.

#### 4. Publications.

John A. Aragon - Two booklets on issues confronting education in New Mexico are still underway and will be published by the Cultural Awareness Center, UNM.

Martin Burlingame - "Hispanic-American Superintendents of Northern New Mexico," in Bachelor, Vogel, Zepper (Eds) Educational Foundations: A Social View. UNM Press.

James A. Hale - "Costs and Needs of Programs for Exceptional Children." (Univ. of Wisconsin Press; Monograph, Approx 250 pp), January 1970. "Fiscal Capacity of School Districts, Regional Agencies, and States." (Univ. of Wisconsin Press; Monograph, Approx 250 pp), January 1970.

Richard F. Tonigan - Monthly articles in School Management magazine July - December 1970: (1) "Fire Prevention - The Custodians Role," (2) "The Professional Plant Superintendent," (3) "NEEDED - More Women Workers," (4) "Preparing Bid Specifications for Custodial Supplies," (5) "That Contractor is a Real Louse," (6) "Effect of Current Problems on Your Plant Program."

#### 5. Other research projects or creative work, etc.

John A. Aragon: A Video taped presentation for Southwest Regional Educational Laboratory on Cultural Conflict in the public schools.

The tape will be distributed nation wide.

Ronald E. Blood: Continued development of concepts to clarify the "Student as Organization Participant."

Martin Burlingame: University Research Allocation; OCDQ and Principal Personality; University Research Allocation; OCDQ, PCI and Teacher Personality.

James A. Hale: State System for Evaluation of Voc/Tech Education (Negotiations in progress for funding with N.M. State Dept. of



Educ. to implement 3 Year project). Monograph: Management Systems in Voc/Tech Education (Ohio State Univ.: in progress) 1970.

Paul A. Pohland: Two monographs and two research articles in progress.

Richard F. Tonigan: Vocational-Technical Education in New Mexico; The 1970 Annual Report of the State Advisory Council for V-T Education.

6. Activities in learned and professional societies.

John A. Aragon: Appointed by U.S. Office of Education to a two year term on Nat'l. Educational Task Force for La Raza (10/15/70). Appointed to H.E.W. Task Group for the Implementation of the National Origin Minority Group Policy Statement.

Ronald E. Blood: Symposium Chairman - American Educational Research Association; Conference at University of California, Riverside - The Mexican American and Educational Change; Paper given Rocky Mountain Research Association - Bridging the Gap - The Public Schools and the Ivory Tower.

Martin Burlingame: 1969 AASA Professors Seminar: Western Division: American Association of School Administrators National Convention: PDK Seminar for Educational Research; Political Science: American Educational Research Association National Convention: PDK Seminar for Educational Research; The Introductory Course.

James A. Hale: AASA, Univ. Professors Conference - Western Division. Joined: National Organization Legal Problems in Education.

Richard F. Tonigan: Spoke at the Annual Association School Business Officials meeting in Seattle, October 1970.

7. Other professional activities:

John A. Aragon: Presented two lectures at U.C.L.A. to Chicano Study Center and Faculty of Education under the auspices of Dr. Simon Gonzales, Assoc. Dean, College of Education, UCLA (11/4/70). Presented three lectures at Stanford University Community Seminar Series (1/7/71).

Ronald E. Blood: Consultant - Los Alamos Schools; Consultant - Socorro Schools; Consultant - Albuquerque Public Schools, Principal Evaluation Procedures; Conducted In-Service Workshop for APS administrators; Consultant - Haskell Indian Institute.

Martin Burlingame: Off-campus talks: Moriarty; Las Vegas, N.M.; Jemez Springs; Memphis, Tennessee, "The Great Man Approach to the Study of American Educational Leadership--Analysis of Biography," to be read at PDK Symposium on Leadership, March, 1971, and to be published.

James A. Hale: Consultant: Navajo Education Association (includes proposal writing for OEO funds). Consultant: State Voc/Tech Div.

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with Four Corners Economic Dev. Comm. Presented Workshop: PPBS to New Mexico Research and Study Council.

Paul A. Pohland: Evaluation Associate - Central Midwest Regional Educational Laboratory June 1 - August 30.

8. Non-teaching University Service.

John A. Aragon: Elected Member-at-Large to UNM Faculty Policy Committee.

Ronald E. Blood: Chairman, Department of Educational Administration; Member of Graduate Curriculum Committee, Member of Advisory Committee, Bureau of Educational Research and Development; Member of Adult Education Committee.

James A. Hale: Represent College at Ramah, N.M. Navajo School Dedication. Student Advisor and Screening Committee. Proposal writing for outside funding.

Paul A. Pohland: Undergraduate Curriculum Committee; COE-SWCEL Committee.

Richard F. Tonigan: Member UNM Research Policy Committee; Also subcommittee on patents and copyrights; Director COE Space Study; Member COE Administrative Committee; Director, Bureau of Educational Planning and Development; Director, New Mexico Research and Study Council.

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## 9. Public Service:

John A. Aragon: Elected to Board of Directors - Albuquerque Child Guidance Center. Appointed to the Sponsoring Committee of Second Annual Governor's Breakfast.

Paul A. Pohland: Member - Church Board of Education; Church Organist.

Richard F. Tonigan: Member of Every Member Canvas Committee, St. Aidans Church; Member of Albuquerque's Goals Task Force on Education.

## 10. Personal information.

None.

THE REPORT OF THE DEPARTMENT OF EDUCATIONAL FOUNDATIONS  
July 1, 1970 - June 30, 1971  
Albert W. Vogel, Chairman

I. General Departmental Information

A. Significant achievements during the academic year, 1970-71

1. The Department had two grants from the B.I.A.: one to sponsor a conference for Indian School staff, the other to evaluate the contingency management program.
2. The Department is continuing its relationship with the Concentrated Employment Program, providing tutors to that agency.
3. Other grants assigned to individual members are listed in the biographical information, Appendix A.

B. Significant plans and recommendations for the near future.

1. Because this Department provides both service to the College and service to its own students, it continues to grow, sometimes because of factors beyond its control. Appendix B indicates that growth.
2. In the very near future, additional courses will have to be offered in order to meet the demands of the College and changes taking place in the profession.

C. Appointments to staff:

1. Four staff members have been added to the Department for next year. They include Peggy Blackwell and Dan Berch as Assistant Professors. Paul Resta will be attached

to the Department as Assistant Dean for Special Projects (Research and Development) and Rodolfo Serrano will be attached to the Department as Director of the Multi-Cultural Unit.

D. Separations from Staff:

1. The Chairman, Albert W. Vogel, will go on "leave of absence" without pay. The Department is presently searching for a new Department Chairman.

II. Program Report

A. Number of Students in Program:

1. Appendixes C and D list the students in the various stages of our graduate program.

B. Selection Procedures for Students:

1. Undergraduates admitted to the A.A. Degree program are admitted on the basis of Federally funded programs in accordance with the regulations passed by the faculty. See Appendix I.
2. Students are admitted to the M.A. program on the basis of grades and, where possible, interview. Careful consideration is given to the career aspirations of the candidate.

3. Students are permitted to begin work toward their Doctorate on the basis of grades, counseling and career aspirations. Admission to Intermediate Status is a departmental matter and candidates are reviewed by the faculty of the Department. At this point they may be asked to take an M.A., withdraw from the program, take additional work or proceed toward the Doctorate.

C. Internal and External Review:

1. Appendix H is an evaluation of 16 sections of Educational Foundations 290. This evaluation has been repeated on three occasions and a pattern of stable high acceptance by the students has been observed.
2. Because of the individualistic and traditional nature of the Doctoral Program, it has been not much reviewed. Appendix G, however, lists the graduates of this Department. With one or two exceptions, they all have outstanding jobs at good universities.

D. Follow-up of Graduates:

1. Because of the small number of Doctoral graduates (14) the careers of all of them are well known to us. Appendix D indicates that only four students are "On Leave" status. This indicates that they have not completed their dissertations.

E. Evidence of Teaching Effectiveness:

1. Appendix H indicates the results of the evaluation of EF 290.

F. Class Size:

1. Efforts have been made to keep EF 290, our first course for prospective teachers, small through more effective utilization of supervised Graduate Assistants.
2. EF 300 and 310 still tend to be large, but the addition of new staff may help this situation.
3. Appendix B indicates the growth in student credit hours in this Department.

G. Sources and Adequacy of Support:

1. Within the scope of its present concerns, the Department has adequate resources. The addition of new staff should help. It should be pointed out, however, that limitations upon resources prevent this Department from doing many things traditionally done by Foundations Departments. We have no comparative education program to speak of. Our support for the Native American community is minimal. The Department particularly needs the services of an educational anthropologist. Its computer facilities, while expanding, are still minimal. These are just some of the areas that are neglected.



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2. Our greatest strengths are in educational psychology, educational sociology, educational history and philosophy, research and computer technology, in that order.

### III. Individual Biographical Supplement:

- A. Appendix A indicates the achievements of the individual members of the Department.
- B. Biographical information has not been supplied for David Bachelor who was on leave to work with the Institute of Social Research and Development and James Moore who was on leave to work with the Southwestern Cooperative Educational Laboratory. Lewis Dahmen returned from Latin American in the middle of the year.

EDUCATIONAL FOUNDATIONS  
BIOGRAPHICAL INFORMATION  
FOR  
June 1, 1970 - Dec. 1, 1970

Information was not received from the following:

David Bachelor  
James Cooper  
Lewis Dahmen  
Richard Gorman  
James Moore

Frank Angel

Sabbaticals, leaves of absence, travel, etc.:

Ecuador, Colombia, Venezuela, Costa Rica, Honduras on USAID/UNM  
Contracts, teaching in contracts, survey for Higher Ed. Seminar  
Conference, John Hay Whitney Fdn., California

Research Projects or Creative work in progress or completed:

Continuation of Ecuador Project in Teacher Ed and Textbooks  
Continuation of Colombia Project in Secondary Ed.  
Development of New Contract with Brazil

Activities in learned and Professional Societies:

Chairman, BEF Bilingual Consortium

Other Professional Activities:

1/2 time Albuquerque City Schools - Set up area administrative offices, directing  
work on research on APS inner city schools

Non-teaching University service:

Administrative Committee - UNM COE

Mary B. Harris

Publications:

"Reciprocity and Generosity", Child Development, 42, 1970, 313-328

Research Projects or Creative Work in progress or completed:

NIMH grant for \$4834 ("Models, Norms and Altruism") completed in August.  
Research on smoking, over-eating, study habits, in progress

Activities in learned and professional societies:

Secretary, UNM chapter of AAUP

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Mary B. Harris (continued)

Non-teaching University service:

COE Policy Committee; UNM Faculty Research Allocations Committee and Research Policy Committee; Ed. Fdns.-Secondary Ed. Joint Committee; Univ. College Advisor

Personal Information:

Child born Sept. 21, 1970 - Christopher Richard Harris

Wayne P. Moellenberg

Publications:

"Alienation: Some Causes and Cures," Contemporary Education, Vol. XLII, No. 1, Oct. 1970, pp. 21-24.

"Have We Decided What to Do Before We Have Decided Why?", Toward Cultural Diversity in Education, Vol. I, No. 5, Oct. 1970, 5 pp.

Research Projects or Creative work in progress or completed:

Continued study of applicants to teacher education programs, funded by Faculty Allocations Committee. On the basis of this project, presented screening proposal to Educ. Policy Comm.

Activities in learned and professional societies:

Attended Workshop for Graduate Deans in Minnesota  
Delivered paper at Rocky Mountain Conf. on Fdns. of Educ.

Other Professional activities:

Consultant - Consortium on Handicapped Child Project  
Joined with Professors Cooper, Brainerd and Nikolai in preparation of 135-page evaluation report

Non-teaching University service:

Asst. Grad. Dean; COE Policy Comm.; UNM Grad. Comm.; Entrance & Credits Comm.; Committee on Grading; Workshops Comm.; Core-courses Comm.; GSA Cabinet

Public Service:

Seminar leader - Adults; Substitute Teacher - Senior High; Board of Christian Educ.

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Albert W. Vogel

## Publications:

Educational Foundations, Albuquerque, The Univ. of New Mexico Press, 1970.

## Other Professional Activities:

Participated in numerous community action programs.

## Non-teaching University service:

Department Chairman; Chairman, CEEP

## Personal Information:

Divorced

John T. Zepper

## Publications:

"V.T. Thayer: Progressive Educator," Educational Forum, 34:495-504, May, 1970.

Book review of "The Platonic Method," Journal of Thought, 5:196-97, July, 1970.

Vogel, Bachelor & Zepper, Foundations of Education. UNM Press, 1970.

## Activities in learned and professional societies:

Speech, "Brameld: Architect of Confusion, Gadfly, or Prognosticator,"  
at SW Philos. of Educ. Soc., 11-6-70, Stillwater, Okla.

Chairman of RM Conference of Fdns. of Educ., Dec. 4-5, 1970  
Albuquerque Hilton Hotel.

## Other professional activities:

Talk at Sandia Base on "Philosophy and Recreation," 8-5-70

## Non-teaching University service:

Chairman, COE Undergraduate Curriculum Committee  
General Honors Council (chairman of search for new Director)  
COE Student Petitions Committee

APPENDIX B

## THE UNIVERSITY OF NEW MEXICO

## COLLEGE OF EDUCATION

EDUCATIONAL FOUNDATIONS DEPARTMENTTotal Number

		<u>Courses</u>	<u>Sections</u>	<u>Students</u>	<u>Student Credit Hours</u>
1968-69	Sem. I	16	56	1216	3660
	Sem. II	18	59	1252	3785
	SS	15	21	473	1442
-----					
1969-70	Sem. I	19	56	1359	4092
	Sem. II	23	67	1394	4195
	SS	16	28	535	1568
-----					
1970-71	Sem. I	20	74	1655	4952
	Sem. II	24	78	1691	4987

APPENDIX C  
MASTER'S CANDIDATES  
Educational Foundations

Currently on File:

Atkins, Amy  
Billjotti, Louise  
Bowers, James Rae  
Davis, Brian C.  
Dawson, Leland Webb Jr.  
Dempsey, Diana L.  
Deyhle, Donna Lee  
Durrance, Sidney Andree  
Eastham, Joann Tapia  
Ellison, Daniel Gene  
Eytcheson, Mary C.  
Field, Robert Jesse  
Freshley, Carol Ann  
Ghamdi, Abdullrahman M.  
Groepfer, Sandra Lee  
Hinton, Betty Ethel  
Hook, Martha  
Lathan, Alfonza  
Laufer, Diana D.  
Lies, Emily Marion  
Lonsdale, Charles W.  
Meyer, Fred W.  
Morris, Yolanda Ozuna  
Novat, Pat  
Pope, John Wayne  
Quinones, Armando Garcia  
Rouleau, Patricia A.  
Ruth, John J.  
Tang, Mary Toledo  
Tinsley, William Hanford  
Tyler, Ann I.  
Vultura, Joann Tapia  
Walker, Joyce Evelyn  
Williams, Calvit H. Jr.  
Winick, Idalee

Graduated:

Attruia, Amalia  
Beavis, Mary Hill.  
Hensolt, John  
James, John Tyler  
Pallett, Christine  
Rindone, Richard  
Sessions, Danny Lee

APPENDIX D.  
DOCTORAL CANDIDATES  
Educational Foundations

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Incomplete Folders - Graduate Students admitted by the Graduate School  
but not to intermediate status by Department; Doctorate

Ambrose, John J.	Kanner, Melvin E.	Scott, Richard M.
Annadale, Arthur D.	Kottke, Ekkehard	Snyder, Mary H.
Arnsdorf, Edward E.	Kresyman, Evelyn S.	Solis, Enrique, Jr.
Becknell, Charles E.	Kunz, Alesia	Stack, Conrad J.
Bergen, Timothy J.	Lorenzana, Noemi	Steadman, Jerry D.
Berman, Martin L.	McCann, Judith	Thongutai, Utumporn
Clingain, Ben	McConnell, James I.	Tiano, Tony
Daffa, Ali A.	Mallory (Holt), Lois Kathryn	Timpson, William M.
Davis, Bethal I.	Miller, Joyanne D.	Tower, Gail W.
Ellis, Mary E.	Mills, Gary K.	Trusch, Howard
Falkowski, Marlene G.	Nodacker, Milton W.	Vandenbergh, Marie
Farnsworth, Melvin T.	North, Carl H.	Verlhulst, William M.
Ferrel, Walter A.	Oliver, Hollis G.	Vernardos, Marlene G.
Fleming, Granville E.	Parks, Robert Jr.	Walls, Doyle Glen
Gloege, George	Parks, Robert S.	Weber, Robert A.
Guanco, Maria	Pavlos, Arnold G.	Wells, Elmer E.
Hamel, Patricia Jane	Paralta, Frederick A.	West, James D.
Henderson, Judith E.	Riddle, Ella E.	Williams, George L.
Hubbart, Gerald W.	Rowland, Hershel	Winograd, Samuel
James, John T.	Schena, George A.	Ziergiebel, Nicholas W.
Johnson, Richard W.	Scoski, Robert M.	

Complete Folder-  
Being held by Dept.

Ball, Sharon Smith  
Huang, Lily Chu  
Joniak, Andrew J.  
Labodda, Roger A.  
Lewis, John P.  
Ludwig, Peter  
Peralta, Alex C.  
Rindone, Richard C.

Admitted to Candidacy:

Arellano, F. Jaime  
Blanchard, Joseph D.  
Brisk, Maria  
Bruckner, Donald G.  
Bruner, Carol Mowbray  
Craig, James Lewis III  
Donofrio, Rosalie S.  
Duquette, Gail P.  
Frieder, Andrea H.  
Gambone, James V., Jr.  
Grieshop, James  
Griffin, Gloria  
Grossman, Charles  
Hedberg, Patricia J.  
Hiat, Albert B.  
Lester, Stanley K.  
Liguori, Ralph  
McOlash, Bryan  
Murphy, Raymond P.  
Nelson, Karen Belgrade  
Perinpanayagam, G.  
Price, Vincent B.  
Ramsey, Margaret A.  
Reedy, Richard L.  
Rothberg, Carole I.  
Scoon, Annabelle R.

On leave:

Hagen, Vern Charles  
Lopez, Thomas R.  
Phillips, Orrell A.  
Wallace, Rose Ann

Graduated:

Abrahamson, John T.  
Croft, Don C.  
Desai, Harikhai G.  
Glatt, Charles  
Grillo, John P.  
Gustafson, Tom  
Hassatt, Irene D.  
Johnson, Dale M.  
Long, Michael T.  
Muller, Douglas  
Merz, William  
Sutton, Kenneth R.  
Wangler, David  
Wu, Chien-Sung

UNIVERSITY OF NEW MEXICO  
College of Education  
June 16, 1971

TO: Department of Educational Foundations  
FROM: Albert W. Vogel, Chairman, Department of Educational Foundations  
SUBJECT: Revised Committees on Studies and Dissertation Committees

F. Jaime Arellano (Phil.)

Vogel (Chmn.), Angel, Alexander (Phil.), Zepper

Joseph D. Blanchard

Maria Estella Brisk (I-LP)

Bills (M-CL) (Chmn.), Ulibarri, Bachelor

Donald S. Bruckner (Research)

Fashing (Soc.) (Chmn.), Finston (Bus. Adm.), Dahmen, \_\_\_\_\_

Carol Mowbray Bruner (Psych.)

Harris (Chmn.), Moore, Moellenberg, Berch

James Lewis Craig (Anthro.)

Bachelor (Chmn.), Vogel, Gorman, Chavez

Rosalie Donofrio (Soc.)

Bachelor (Chmn.), Vogel, Fashing (Soc.), Moore

Gail Duquette (Commun.)

Goldhaber (Sp.) (Chmn.), Burlingame (Ed. Adm.), Gorman, Vogel

Andrea H. Frieder

James V. Garbone, Jr. (History)

James Grieshop



Gloria Griffin (L-LP)

Spolsky (L-LP) (Chmn.), Bachelor, Vogel, Bills (M-CL)

Charles Groffman

Jean Hedberg (Phil.)

Zepper (Chmn.), Vogel, Fashing (Soc.), Tuttle (Phil.)

Vern Charles Hagen (Econ.) - On Leave

Albert Hiat (Psych.)

Moellenberg (Chmn.), Rosenblum (Psych.), Vogel, Harris

Stanley Lester (Phil.)

Vogel (Chmn.), Bahm (Phil.), Zepper, Gorman

Ralph Liguori

Thomas Lopez (History) - On Leave

Vogel (Chmn.), Nash (Hist.), Wagar (Hist.), Zepper

Brian McOlash (Psych.)

Moore (Chmn.), Gorman, Harris, Vogel

Raymond Murphy (L-LP)

Spolsky (Chmn.), Vogel, Bills (L-CL), Zintz (Elem. Ed.)

Karen Belgrade Nelson (Phil.)

Vogel (Chmn.), Bachelor, Loughlin (Elem. Ed.), Fleming (English)

G. Perinpanayagam

Bills (L-CL) (Chmn.), Zepper, Spolsky, Brodkey

O. A. Phillips (Research) - On Leave

Vincent Price (Anthro.)

Vogel (Chmn.), Bachelor, Cooper, Brody (Anthro.)

Margaret Ramsey (Anthro.)

Dahmen (Chmn.), Backnell, Chavez, Vogel

Richard Reedy (Research)

Gorman (Chmn.), Vogel, Moellenberg

Carole Rothberg (Psych.)

Harris (Chmn.), Moore, Gorman, K. Koenig (Psych.)

Annabelle R. Scoen (L-LP)

Cooper (Chmn.), Spolsky (L-LP), Vogel, Zintz (Elem. Ed.)

Rose Ann Wallace (L-LP) - On Leave

Spolsky (Chmn.), Vogel, Bachelor, Pickett (Eng.)

Estimates Pertaining to Graduate Enrollment  
in Unit for Fall Semester, 1971

	CoE Service Response	Dept. of Ed. Edns. Response
1. Total number (i.e., "body count") of graduate students currently enrolled (spring, 1971) in your unit:	377	24 Dec. Submitted to Candidates 6-8 Dec. Inquiries or taking exam 8 Dec. Taking courses (Full- 2-4 P.M. Full-Time + Part-Time)
2. Number of your current graduate students whom you expect to continue in fall semester:	377 plus CoE Enrollment Increase	20 Dec. Submitted to Candidates 5-8 Dec. Inquiries or taking exam 8 Dec. Taking courses (Full- 2-4 P.M. Full-Time + Part-Time)
3. Total number of new graduate students you intend to take in for fall semester:	277 plus CoE Enrollment Increase	10 Dec. Submitted to Candidates 10 Dec. Submitted to Grad. Prog.
4. Maximum number of graduate students you expect for fall semester (i.e., sum of No. 2 and 3):	377 plus CoE Enrollment Increase	10-15 M.A. Candidates 12-15 All Categories
5. During fall semester, number of FIE faculty members available and qualified:		
(a) to supervise Master's theses:	NA	NA
(b) to supervise doctoral dissertations:	0	13 + 2
6. During fall semester, how many students do you expect to be working on:		
(a) Master's theses:	0	0
(b) Doctoral dissertations:	0	15

Name of Unit: Department of Educational Foundations, College of Education

Name of Chairman; Dean, or Director: Albert W. Vogel  
Chairman

Date: 6/17/71

Please return to Graduate Office by June 18, or as close to that date as possible.

EDUCATIONAL FOUNDATIONS  
Doctoral Graduates

Dr. John Abrahamson  
Dept. of Ed. Fdns.  
University of Kentucky  
Lexington, Kentucky 40506  
Ed. Sociology--Manpower

Dr. Don C. Croft  
New Mexico State University  
Las Cruces, New Mexico 88001  
Ed. Psych.--Research--Statistics

Dr. Harilal G. Desai  
Saurashtra University  
Krishnanagar  
Bhavnagar 2 (Gujarat)  
India

Dr. Charles Glatt  
Ohio State University  
Columbus, Ohio 43210  
Ed. Sociology--Ed. Philos.

Dr. John P. Grillo  
Research

Dr. Tom Gustafson  
Dept. of Behavioral Science in Ed.  
Sacramento State College  
Sacramento, California 95819  
Ed. Sociology

Dr. Irene D. Hassett  
Brooklyn College  
Brooklyn, New York  
Ed. Psych.

Dr. Dale M. Johnson  
College of Education  
Dept. of Grad. Studies  
University of Tulsa  
Tulsa, Oklahoma  
Research

Dr. Michael Long  
University State College at Buffalo  
Buffalo, New York 14222  
Ed. Sociology

Dr. Douglas Muller  
New Mexico State University  
Las Cruces, New Mexico 88001  
Ed. Psych.--Research

Dr. William Merz  
Dept. of Behavioral Science in Ed.  
Sacramento State College  
Sacramento, California 95819  
Ed. Psych.--Research

Dr. Kenneth R. Sutton  
Faculty for Professional Education  
Eastern Illinois University  
Charleston, Illinois 61920  
Ed. Philos.

Dr. David Wangler  
University of Alberta  
Alberta, Canada  
Ed. Sociology

Mr. Chien-Sung Wu  
Comp. Educ: China

Strongly disagree	Disagree	Agree	Strongly agree	
27	65	227	101	1. This course is intellectually valid as an introductory course.
27	56	160	177	2. My tutoring experience sensitized me to problems of students as humans.
20	59	194	147	3. Personal experiences, relevant to the course, were introduced by the instructor.
67	142	155	56	4. Class discussions amplified on the readings from the text.
61	165	134	55	5. My social outlook changed as a result of the readings.
13	91	254	58	6. Overall, the course components were integrated.
11	27	14	268	7. The instructor encouraged classroom discussion.
34	74	211	101	8. The content of the Vogel, Bachelor, Zepper textbook is significant.
36	66	171	117	9. The instructor encouraged dissent in class discussion.
31	75	224	90	10. I read the material in the textbook seriously.
6	17	163	234	11. The instructor was willing and available to talk with me after or outside of class hours.
19	45	205	151	12. The process by which I achieved my grade was understood by me.
21	82	204	113	13. Tutoring was discussed in class.
44	133	170	73	14. My attitudes toward education changed as a result of the readings.
20	63	200	137	15. I prepared for the examination by reading the material in the text.
9	55	212	144	16. I accomplished all other assignments seriously.
95	209	65	51	17. This course overemphasizes minority group problems.
18	63	246	99	18. Assignments were relevant to the material covered in the course.
14	54	206	146	19. The instructor appeared to be well prepared for class.
14	54	206	146	20. The content of the Heresies textbook is relevant.
58	104	176	82	21. The instructor shows enthusiasm for his subject.
15	37	194	174	22. This course made me more aware of critical issues in American education.
36	94	168	122	23. My tutoring assignment gave me insight into social problems.
33	78	166	143	24. "Non-academic" class activities (role play, games, uses of media, guest lectures, etc.) were introduced into the course.
34	57	210	119	25. This course is effective as an introduction to education.
31	117	195	77	26. Provisions are made to meet individual interests and needs.
11	36	161	212	27. I fulfilled my tutoring assignments conscientiously.
7	21	183	269	28. The instructor appeared to be well prepared academically.
1	57	245	108	29. I consider myself a B (1), C (2), B (3), A (4) student, generally.
45	187	134	54	30. My social outlook changed as a result of the instructor.
28	105	213	74	31. Stimulation (and assistance) provided to me helped define my future role as "an educator."
25	65	195	135	32. My tutoring experience provided me with some orientation to teaching.
110	173	114	23	33. I could have been required to do more reading and other assignments for a three hour course.
13	58	181	168	34. The instructor appeared to be well experienced in education.

Strongly disagree  
Disagree  
Agree  
Strongly agree

32	128	177	83	35.	I made meaningful contributions to class discussions.
38	122	201	59	36.	Lectures and discussions were related to the readings.
5	45	178	186	37.	I rate my general performance in this course: F or D (1), C (2), B (3), A (4)
9	15	215	181	38.	The examinations tested the material in the textbooks.
25	118	204	73	39.	Attempts were made by the instructor to integrate tutoring with other aspects of the course.
28	122	209	41	40.	Stimulation (and assistance) was provided to me to help me define my role as a "learner."
27	135	167	91	41.	My attitudes toward education changed as a result of the instructor.
44	145	165	66	42.	The instructor served as a model for my own teaching.
16	82	237	85	43.	The class helped me gain sensitivity to social problems.
22	95	206	95	44.	This course made me more aware of critical issues in American Society.
7	15	201	197	45.	The instructor answered questions seriously.
18	35	208	159	46.	Grading is fair in this course.
205	86	71	58	47.	Overall, I rate my tutoring experience A, B, C, D, F.
20	39	134	227	48.	I look forward to becoming an educator.
32	90	184	113	49.	There was sufficient class involvement in setting up the structure and direction of the course.
4	48	210	158	50.	My grade in this course probably is: F or D (1), C (2), B (3), A (4).
6	33	150	231	51.	I fulfilled my responsibility for regular class attendance.
7	29	215	169	52.	Personal experiences, relevant to the course, were introduced by other "students."

ASSOCIATE OF ARTS DEGREE IN EDUCATION

## THE DEPARTMENT OF EDUCATIONAL FOUNDATIONS

## I. NEED FOR PROPOSED PROGRAM

For the past two years, the College of Education has been involved with several programs (WIN, COP, New Careers) designed to educate and credential educationally under-privileged people eighteen years of age and over. These experiences have shown both the need for an organic A.A. program of education for an over-eighteen population not otherwise served by the College and developed the experience necessary for the success of the Program.

The past few years have also witnessed a growing interest in, and support of, the field of early childhood education strongly sociological in content. Continued support and growth of this important field is likely. It is also likely that personnel for such programs will continue to be recruited from educationally disadvantaged groups. The College would do well now to consider and decide how it can best prepare paraprofessionals to serve in this important field.

## A. PROBABLE CLIENTELE

Prospective students will be registered in the University and will consist of adults eighteen years of age or older, who have a high school diploma or its equivalent. Usually, the equivalent will be formal (i.e., GED.) In some cases, though, informal experiences and attainments of an individual will be such that there is a reasonable expectation that the individual can profit from University work. The Department Chairman will suggest suspension of formal diploma requirements in such cases. If the program is "outside" funded, the Director of the program will be consulted.

## B. NECESSARY ADDITION TO DEPARTMENTAL WORK

A variety of courses offered throughout the College of Education (i.e., Educational Foundations 290 and Art Education 110) have provided special sections in order to serve the needs of paraprofessional training programs. Two years of experience have shown that there is a need to fit these "specialized" sections into an integrated degree granting scheme.

The "new" portion of this scheme is on-the-job training. The purpose of this training is to move (beginning with the EF 300, 310 Block offered in conjunction with on-the-job-training at the clientele's place of work)<sup>1</sup> as much of the formal education

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<sup>1</sup>See attached schedule concerning arrangement of specific courses.

as is feasible as close as possible to the clientele's work situation and work experiences. The clientele will typically come from educationally disadvantaged areas. Generally, they will have many educational deficiencies to make up. However, they have had, and will continue to have had, experiences in common with their charges and, therefore, possess an unique potentiality to communicate with the children in their care.<sup>2</sup>

Since this will be a program attempting to accomplish a very difficult task (maintaining and developing "native" communication skills while providing formal education,) this initial document will not be able to provide for all contingencies. Therefore, two adjustments and review mechanisms have been provided to deal with program difficulties:

## 1. COURSE STRUCTURE

It is probably unwise and destructive of the aims of this program to assume that the people enrolled in it will immediately be able to handle standard college and university courses. The varieties of course structures available to help candidates for the AA degree to successfully do university work can be thought of as constituting a continuum from "sheltered" courses to "standard" courses. Whether the course is "sheltered," "semi-sheltered" or a standard course supported by tutoring, these terms describe the starting points of the course work. In all cases, the work, by the end of the course, will be equivalent to that done in standard university courses.

The director of the government program will recommend the best combination of course structures in any one semester. The final decision and arrangements to implement them will be the result of consultation between the chairman of the degree granting department and the Director of the funded program, should there be one.

## 2. WORKSHOPS

Provision has been made in the schedule for at least three, critique, evaluation and adjustment, workshops. These sessions would permit students in the Program to meet with staff of the supported programs and of the degree granting department in order to air grievances, suggest changes and prepare

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<sup>2</sup>Bennett, W.S., Jr., and R. Frank Falk, New Careers and Urban Schools (NY: Holt, Rinehart and Winston, 1970.)

Riessman, Frank and Arthur Pearl (Ed.) New Careers for the Poor (NY: The Free Press, 1965.)



for future class work. The workshops have a much more important function than criticizing; that function is to make the students feel they are members of the University community and that their views are listened to.

Specific dates of the workshops, and frequency, should be established by the chairman of the degree-granting department in accordance with University regulations and, if appropriate, after consultation with the Director of funded programs. Final decision as to dates and advisory personnel asked to attend will be made by the department chairman.

## II. GENERAL OBJECTIVES OF THE PROGRAM

- A. To develop in the prospective aid an awareness of cultural diversity and its meaning for education.
- B. To prepare adults for a career in child development centers, nursery schools, and kindergartens.
- C. To develop the ability in adults from educationally disadvantaged areas to continue their educational development.
- D. To develop in the prospective paraprofessional an understanding of the educational process.
- E. To prepare students to work effectively with public school teachers as paraprofessionals as defined in the literature.
- F. To develop an awareness of early child development and rearing.
- G. To develop an ability to use the "public" language of the children as a foundation upon which to build "formal" language competence.<sup>3</sup>
- H. To develop an ability to use the "survival skills" of poor children as a foundation upon which to build competence in utilizing abstractions.<sup>4</sup>
- I. To prepare students to understand evaluation data, interpret them and modify program material accordingly.
- J. To help develop an integrated though flexible philosophy of education.

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<sup>3</sup>Bernstein, Basil, "Social Class and Linguistic Development" in Halsey, et. al., Education, Economy and Society, 297-311.

<sup>4</sup>Riessman, Frank, The Culturally Deprived Child. (NY: Harper and Row, 1962.)

These objectives are congruent with the general aims of the College of Education and the Department of Educational Foundations. Specifically, they are designed to preserve the unique experiential and communication potential strengths of the clientele while giving them general education and technical skills.

### III. CONTENT OUTLINE FOR NEW COURSES AND RELATIONSHIP WITH EXISTING COURSES

New Courses: On-the-job training component presently being formally developed by the Department for presentation to Committee A.

Relationships: Concept I

On-the-job training<sup>5</sup> in conjunction with EF 300 and 310 will emphasize:

- A. General child development, variation from "norm."
- B. Spotting and responding to "abnormal" deviation from "norms."
- C. General Classroom management and behavior modification.
- D. Interpreting and utilizing of test data in diagnostic ways.
- E. Instruction and practice on observational and record keeping skills.
- F. Observation and evaluation of the adults for the on-the-job training credit will be carried out by a faculty member of Educational Foundations and does not necessarily have to be the instructor of the EF 300-310 Block. It is expected that the course instructor and the on-the-job training evaluator will have to work closely together.

Relationships: Concept II

On-the-job training in conjunction with Sociology courses will emphasize:

- A. Community study and analysis in order to better understand child's background and motivation.

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<sup>5</sup>The scheduling of the on-the-job training work will include classroom instruction supplemented by additional hours of "lab" type work. The classroom work will consist of lecture and discussion of new material and of assignments, observations, and evaluations of the "lab" experiences.

- B. Study of home life of children, comparison with that of other groups, identification of the affective and cognitive weaknesses and strengths of the population.
- C. Study of peer group influences in community.
- D. Study of children's social activities in classroom settings.
- E. In general, the purpose of this segment of on-the-job training is to specify sociological tools and data to the specific population of children being served.
- F. Observation and evaluation of the adults for on-the-job training credit will be carried out by a faculty member of Educational Foundations and does not necessarily have to be the course instructor.

Relationships: Concept III

On-the-job training in conjunction with an elective course.

- A. Health, nutrition instruction.
- B. Speech and organization of instruction.
- C. New Mexico culture and history.

#### IV. BIBLIOGRAPHY

This is a general bibliography and will be supplemented by materials appropriate to each section of the on-the-job training offering.

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Manuel, Herchel T., Spanish-Speaking Children of the Southwest. Texas, University of Texas Press, 1965.

Miller, S. M. and F. Riessman. "The Working Class Subculture; a New View," Social Problems, Vol. 9 (Summer, 1961) 86-97.

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SWCEL, The American Indian High School Graduate in the Southwest.

SWCEL, The American Indian High School Dropout in the Southwest.

V. INAPPLICABLE

VI. DESIRED IMPLEMENTATION DATE

Semester II, 1970-1971

VII. IMPLICATIONS FOR STAFFING AND BUDGET

Since the persons served by this AA program will usually be in federal and state supported programs, it is assumed that financial arrangements will be worked out in accord with University regulations.

VIII. CERTIFICATION

Upon successful completion of this program, with an overall G.P.A. of 2.0 and upon the recommendation of the program director, if there is one, to the chairman of the degree granting department, students' names will be submitted to the state for certification.

SCHEDULE

Orientation to University, study habits practice  
and explanation of A.A. Program.

January 1971

<u>SEMESTER</u>	<u>COURSES</u>	<u>CREDIT HOURS</u>
1st	EF 290*	3
	EF 447	3
	(Local community emphasis)	
Interim	Critique and Evaluation Period	
2nd	Elementary Education 100, 200, 129 or 229	3
	(On site)	
	Art Education 110 or 115	3
	General Educ Course**	3
Interim	Critique, Evaluation and Program Adjustments (if necessary)	
3rd	English 101	3
	General Educ. Course**	3
4th	Music Education 293	2
	Elective	3
5th	English 102	3
	General Educ Course**	3
Interim	Critique, Evaluation and Program Adjustments	

\*Substitution of listed courses can be made on the basis of college guidelines. The director of the program, if there is one, initiates requests for substitutions. Approval is given by the Chairman of the degree granting department.

\*\*The group of General Education courses will be expected to constitute an integrated course of study. Some suggested groups are attached. Other groups will be developed by the director of the program, if there is one, with the advice of the Chairman of the degree granting department.

<u>SEMESTER</u>	<u>COURSES</u>	<u>CREDIT HOURS</u>
6th	EF 300	3
	EF 310	3
	On-the-Job Training	4
7th	Sociology 101**	3
	Sociology of Childhood <sup>1</sup> **	3
	On-the-Job Training	5
8th	General Educ Course**	3
	Elective	3
	On-the-Job Training	5

Attendance for 8 Semesters  
 5 Regular  
 3 Summer

Hours Earned: 64  
 Regular Courses Taken: 20  
 On-the-Job Training Sessions: 3  
 Overall G.P.A.: 2.0

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<sup>1</sup>Under development by Department of Sociology.

## SAMPLE ELECTIVE GROUPS

### COMMUNICATIONS

1. Speech 101. Fundamentals of Speech
2. Speech 102. Fundamentals of Speech
3. Speech 256. Public Speaking for Teachers.
4. Elementary Education 341. Techniques at Literary Presentations.

### OR

1. Speech 256. Public Speaking for Teachers.
2. Anthropology 292. Introduction to the Study of Language.
3. English 277. Southwestern Literature.
4. Elementary Education 341. Techniques of Literary Presentations.

### SPECIAL EDUCATION

1. Special Education 250. Introduction to Special Education.
2. Special Education 371. Education of the Exceptional Child.
3. Special Education 429. Workshops in Special Education.
4. Guidance 431. Mental Health.

### HUMANITIES

1. English 277. Southwestern Literature
2. Spanish 292. Introduction to Spanish Literature.
3. Spanish 337. Spanish Literature in Translation.

### OR

2. Black Studies
3. Equivalent Courses
4. History 380. History of the Southwest.

These samplings are intended only to illustrate the possible groups of electives and the integration of courses to be striven for. Specific groups of electives and courses should result from conferences between the federal program director and the chairman of the degree granting department.

# THE REPORT OF THE DEPARTMENT OF ELEMENTARY EDUCATION

July 1, 1970-June 30, 1971

David Darling, Chairman

## General Departmental Information

The activities of the department have continued to expand in scope and quantity during the 1970-71 academic year. The decision to limit undergraduate enrollment has been the most difficult decision to implement this year. The decision to recast our undergraduate program into a different structural setting and develop a program based on different assumptions about both teacher education and elementary education is clearly the most exciting but unsettling decision the department made this year.

The rapid growth in the number of projects supported by "outside" funding agencies continues. These programs have enabled us to work on significant educational problems that are particularly relevant to the southwest. We are heavily involved in bilingual-bicultural teacher education programs and working closely with the public schools and the State Department of Education in all aspects of bilingual-bicultural education including teacher training, curriculum development, and materials development. To some extent we have related this work to our "regular" programs but not to the extent that could and should be done. The major barriers to further integration of these activities in the "regular" programs are practical rather than conceptual or philosophical. More time and personnel are needed to effect the needed changes.

### 1. The Undergraduate Program

a. The integration of the foundations courses, methods courses and student teaching in the junior module was more effective during Semester II, 1970-71 than it has been in the past. This is due primarily to the return of Professor Louis Dahmen and his assignment to Education Foundations 300 and 310.

b. This year another dimension was added to the junior module. The Guidance Department provided advanced doctoral students to work with small groups of juniors who were enrolled in the junior module. The juniors attended unstructured small group sessions that were designed to help them deal with some of the personally stressful situations that junior students typically encounter when they begin their practice teaching. We feel this was very helpful to our students and plan to continue this joint venture.

c. The instructional media course (C & I 432) was integrated into the senior module this year. Thus the senior students had a practical laboratory in which to develop and later use instruction materials. The course was taught in the afternoon during the first eight weeks of the semester, thus coinciding with the social studies and science methods blocks.

d. One of the structural changes in the professional semesters decided upon for the coming year was to shift all methods instruction to the junior module, thus making possible the use of senior module as an internship semester. The



department is currently in the process of determining the content of the new junior module.

e. The senior internship semester will make possible new arrangements in which cooperative teacher education programs can occur. We are implementing a new plan cooperatively with A.P.S. in the S.Y. Jackson Elementary School during 1971-72 school year. The S.Y. Jackson school program was conceived by Dr. Keith Auger and five Clinical Supervisors who are returning to A.P.S. this year after teaching and supervising junior and senior modules. The Clinical Supervisors involved in this venture are Sheldon McGuire, Jeanne Knight, Zelda Maggart, Linda Yguado, and Pete Zeigler. The instructional program will be an open education model. A differentiated staffing pattern is being implemented including the use of interns (senior students) and practice teachers (junior module students). Parent and community involvement is being emphasized in the design and implementation of the school program. The school is attempting to become a truly comprehensive education center, seeking to both use and educate all who come into contact with it. We anticipate that we will model almost all of our undergraduate field experiences in the structural pattern that grows out of our work with the S.Y. Jackson school this coming year.

f. We have experienced a significant increase in the number of our students who are minoring in early childhood study or bilingual education. Approximately ten (10) students completed their senior student teaching experience in a kindergarten classroom during the past semester. One student completed her student teaching in a bilingual school. We anticipate that we will be able to accommodate these students, and others with special interests, better when a senior internship becomes completely operational.

g. The undergraduate enrollment limitation was put in effect this year. During Semester I, 1970-71, 125 students applied for admission to the elementary teacher education program. Ninety-eight, or 78.4 percent, were admitted while 27, or 21.6 percent were not admitted. During Semester II, 1970-71, 121 students applied. Sixty-six, or 54.4 percent, were admitted while 55, or 45.5 percent were not admitted. The department established a level of 220 students to be admitted each year. A quota has been set for each screening session. The quota allows for 108 admissions for Semester I, 66 for Semester II, and 46 for the summer session. These figures were established after studying the application and admissions patterns for the past five years. These quotas will have to be reevaluated each year to determine their adequacy in regulating our undergraduate enrollment.

h. The department established an Associate in Arts in Education (Elementary) degree during the past year. Three groups of students are pursuing this degree. Sixty-two students are enrolled in the federally funded Career Opportunity Program. A similar number of headstart teachers and aides working in Indian Headstart classrooms are enrolled in the program and receiving training funded through special federal grants. Some teacher aides in federally funded bilingual education projects are pursuing the A.A. degree. To date, only persons who are employed in federally funded projects and whose training is being paid for by federal grants have been permitted to pursue the A.A. degree program. Dean Lawrence has agreed that additional support will be needed to see these persons

through a four-year degree and teacher certification program. The A.A. candidates will not be counted in our enrollment limitation discussed previously. The richest supply of ethnic minority students, Black, Chicano and Indian is enrolled in these programs.

1. Dr. Catherine Loughlin has been working with personnel in the Department of Home Economics to establish a joint major program of study in early childhood education. Perhaps the two departments will have a joint proposal to present to the college for consideration during the 1971-72 academic year.

## 2. The Graduate Program

a. There was a significant increase in the graduate student enrollment and graduate credit hour production this past year. This was due primarily to the increased activity in bilingual-bicultural professional teacher training in our special projects and in the inservice training of cooperating teachers who work with our undergraduate program rather than a significant increase in the enrollment of regularly scheduled graduate classes. Generally we find that graduate study that is associated with these special projects and with inservice education to be superior in that the students see a high degree of relevance related to their study.

b. We are in the process of establishing admission procedures for persons interested in pursuing the Master's degree. This is a difficult problem and will require careful study and analysis so that appropriate data are considered in making such judgments. The department's Graduate committee will study the matter during the coming year.

c. The idea of including an internship or a form of practical field related experience as a part of the graduate programs was partially implemented this year. It was possible to make such an experience operable in many instances, particularly in the doctorate and education specialists programs as well as in our work with cooperating teachers. However, the "regular" summer session Master's students or those taking one or two courses during the school year find it difficult to integrate such an experience in their program.

d. Dr. Paul Tweeten was able to obtain a grant from the National Science Foundation to improve science instruction in the public schools. This was a graduate level program in which he worked closely with our undergraduate program to improve both the teaching of science and the science curriculum at the elementary school level. This is mentioned here because of its close linkage with our undergraduate program.

e. The field school at the Universidad Autónoma de Guadalajara continues to be an important component in our efforts to train teachers for bilingual-bicultural education at the graduate level. The quality of facilities and the cooperation of the personnel of the Autónoma, particularly Lic. Humberto Davalos, and the cultural setting provide an excellent base for training New Mexico's teachers for bilingual-bicultural education. The summer of 1971 will be the third consecutive summer we have used this field school and we plan to be in Guadalajara again next summer.

f. Much of the research that is done as a part of graduate degree programs is connected in some way to studying education problems that have their greatest incidence in New Mexico and the southwest. This is to say that these research interests are often related to the education of Chicano and Indian students or programs designed for these students. However, research projects are not totally limited to this area.

### Special Projects

Special projects have continued to expand in scope and quantity. Following is a listing of specially funded projects that were directed by members of the department during this year.

1. Bilingual Materials Production Institute
2. Bilingual Professional Teacher Training Institute
3. Bilingual, Title VII, ESEA projects, Grants and Albuquerque
4. Career Opportunity Program
5. Early Childhood Education Specialists for Spanish Speaking Children
6. National Science Foundation Teacher Training Project
7. Navajo Reading Study
8. Navajo Social Studies Project
9. Reading Resources Network Center (ERIC-CRIER)

Attached as an Appendix is a memo from Professor Zintz which provides additional information about these and other projects in which department members have leadership responsibilities.

The Bilingual Education Programs are under the direction of Dr. Dolores Gonzales.

a. The Bilingual Materials Production Institute, Dr. Dolores Gonzales, Director, trained eight specialists in the preparation of bilingual (Spanish-English) instructional materials. The EPDA Institute was funded again for the 1971-72 academic year.

b. The Bilingual Teacher Training Specialist project was a cooperative project with the State Department of Education. A six week summer institute was held in Guadalajara, Mexico, in the summer of 1970 for 30 bilingual teachers. Mr. Henry Pascual and Mr. Cecilio Orozco directed the institute. Mr. George Gonzales provided follow-up instruction for the participants during the academic year. This EPDA institute was refunded for the 1971-72 year, including a 1971 summer institute in Guadalajara.

c. The Bilingual, Title VII, ESEA projects were sub-contracts between U.N.M. and the local school districts (A.P.S. and Grants). The projects provided training for teachers and aides working in Title VII funded classrooms. Dr. Dolores Gonzales and Mr. George Gonzales directed these projects. The A.P.S. contract has been renewed and expanded to several new schools. The Grants contract has been renewed. New contracts for bilingual teacher training have been signed with Las Vegas (East and West), Taos, Santa Fe, and Espanola.

d. The Career Opportunity Program, a cooperative project designed to bring people into education through different programs, trained 62 persons at the A.A. degree level during the past year. Dr. Mary Ann Stone and Mr. Bob Aragon (ISRAD) coordinate U.N.M.'s efforts in the program last year. Mr. Bob Doyle is the project coordinator for A.P.S. The program was operated through ISRAD last year but will operate through the Department of Elementary Education in 1971-72.

e. The Hughes Project (Early Childhood Specialist for Spanish Speaking Children) was successfully implemented in Old Town School this year. This is a cooperative project (A.P.S., U.N.M., J.F.K. Center, The University of Colorado, and California State, Los Angeles) designed to train educational leaders in the Hughes early education model so that they might implement the model in school programs under their leadership.

Professor Marie M. Hughes is the director of this EPDA project. Other staff members are Mrs. Halene Weaver, Dr. Joanne Woods, and Miss Vicki Mills. Ten advanced TTT specialists were trained in this project. One participant was a post doctoral fellow, four participants were recommended for admission to the doctoral program, one for admission to the education specialists program, and three will complete the course requirements for the Master's degree during the summer.

The program was refunded for another year at a higher level of funding. Thirteen TTT fellows have been selected for the program for the 1971-72 academic year. All of these fellows have completed at least the Master's degree.

f. The N.S.F. teacher training and curriculum development project was directed by Dr. Paul Tweeten. The project operated in the senior student teaching centers. The cooperating teachers in the center schools participated in training sessions and curriculum development sessions under the direction of Dr. Tweeten and the senior module staff.

g. The Navajo Reading Study continues to focus careful attention on basic concerns that are related to young Navajo children learning to read the Navajo Language (see the Zintz Memo). This research project is generating important data on the Navajo child's language. The project is funded by the B.I.A., and received a supplementary grant from the Ford Foundation to further pursue the research phase of the project. Professor Bernard Spolsky is the director of the project. The project has been carefully planned to continue while Professor Spolsky is on his sabbatical leave in Israel next year.

h. The Navajo Social Studies Project is in its final stages. Adequate funding from B.I.A. has been assured in order to complete the printing and delivery of the Navajo culture based social studies units to the B.I.A. offices in Window Rock, Arizona. Professor LeRoy Condie is the project director.

i. The status of the Reading Resources Network Center is in doubt for the coming year. The cutback in graduate assistants and the need to use special project graduate students in other ways leaves the center without staff. This past year the center served as an effective communications link between ERIC-CRIER

and the public schools. Mrs. Blair Hysmith worked in the center under the direction of Professor Miles Zintz, Director. The equipment purchased to initiate the center will be retained in the event funding becomes available.

### Cultural Diversity

The implementation of the November 1969 policy statement on cultural diversity in education received conscious and deliberate attention in all of the department's programs, undergraduate, graduate, special projects and research.

In order that all undergraduates receive a minimum of instruction related to cultural diversity several procedures are in existence. The Educational Foundations courses 300 and 310 which are integrated into the block are considered to be related to learning and growth and development within and across cultures. Professor Dahmen's efforts to bring appropriate cultural and social information and experiences into the junior module have been relatively effective. In addition the methods courses associated with the blocks, particularly reading, social studies, and especially language arts, each deal with the matter of cultural diversity. The requirement to have one student teaching experience in the heights and one in the valley remains in effect.

In order to make it possible for those who want to emphasize multicultural education at the undergraduate level we have in existence a composite bilingual education minor. This minor is gaining in popularity quite rapidly.

We have no common requirement at the graduate level that insures that students will receive a minimum of instruction in this area. This is due primarily to the rather extensive flexibility of programs at the graduate level that makes it possible for students and their committees to have wide latitude in developing individualized graduate programs. However, I think it is safe to say that 80 percent to 90 percent of our graduate students who complete a program have elected at least one course dealing directly with multicultural education. Clearly the most popular single graduate level course is C & I 481, Education Across Cultures. In fact this course is taken by more graduate students than any single required course in either our undergraduate or graduate program.

It appears to me that this portion of the policy is being met voluntarily by graduate students, thus eliminating the need to legislate students into meeting the requirement. This makes me very pleased.

It is possible for a student to emphasize bilingual-bicultural education at the Masters, Education Specialist and Doctoral level. At the Masters level the area of reading with a minor emphasis in bilingual education is the single most popular area of specialization.

Attention has been given to recruiting students from minority ethnic groups. During this past semester special consideration was given to Chicanos and the one Black student who applied for admission to the program. No Indian students applied.

The COP and Indian Headstart training programs promise to be a rich source of Black and Indian students--two groups of minority students that have been obvious in their absence from our program.

Many Chicano students have been attracted to our program through the special projects in bilingual-bicultural teacher training. Since most of these projects are quite recent, it will be a year or two before the effects become visible to a significant degree.

It is my judgment that the department is implementing the policy most successfully. Undoubtedly, the most significant factor in the successful implementation of the policy in the department is the professors' attitudes toward the concern. I think that the current activities of the department's faculty reflect the historical commitment that the department has had in this matter and I am personally pleased to be a part of this history.

#### Appointments to Staff

Miss Carolina Acosta, Assistant Professor (Temporary), joined the department to work in the bilingual-bicultural projects with Dr. Dolores Gonzales. Miss Acosta is presently completing her dissertation at Pennsylvania State University.

Mr. George A. Gonzales, Lecturer (Temporary), joined the department from the text book writing project in Ecuador. Mr. Gonzales is working with Dr. Dolores Gonzales in the bilingual-bicultural projects.

Dr. Marie M. Hughes, Professor, joined the department to direct the TTT project in Early Childhood Education for the Spanish Speaking. Professor Hughes comes to the department from the University of Arizona where she had developed and implemented the "Tucson Model" Follow Through program being used as one of the eighteen approved Follow Through models.

Miss Vicki Mills, Instructor (Temporary), joined the department as a staff member in the Hughes project at Old Town School. Miss Mills completed her Bachelor's degree in Psychology at the University of Arizona.

Dr. Mary Ann Stone, Assistant Professor (Temporary), was added to the staff to teach the graduate level, co-training, portion of the COP program for the 1970-71 year. Dr. Stone completed her doctorate at the University of Illinois and taught at the University of Chicago.

Mrs. Halene Weaver, Assistant Professor (Temporary), was appointed to work with Dr. Hughes in the TTT projects at Old Town School. Mrs. Weaver has completed her graduate study beyond the Master's degree.

Dr. Joanne Woods, Assistant Professor (Temporary), joined the department as a member of the staff of the Hughes project. Dr. Woods completed her doctorate at the University of Southern California in Los Angeles.

### Separations from Staff

Dr. Mary Ann Stone, Assistant Professor (Temporary), was not reemployed. The graduate level instruction portion of the COP project was eliminated from the program, thus eliminating this position.

### Faculty Contributions

Miss Carolina Acosta edited the Bulletin Para El Maestro Bilingue (Bulletin for the Bilingual Teacher) published by the EPDA Bilingual Materials Institute.

Dr. Keith Auger was on an Association of Supervisor and Curriculum Development national planning committee and was very active in the Teacher Education section of the annual ASCD Conference. He is on the Board of Directors of the New Mexico Department of Elementary School Principals. He served as the liaison person between U.N.M., Albuquerque Public Schools, and the Albuquerque Classroom Teachers Association on matters of mutual concern related to teacher education programs operating in the public schools. He also served as a consultant to various schools, educational and industrial groups.

Dr. Dean Brodkey presented a paper at the annual conference on the Association of Teachers of English as a Second Language. He was a participant in the conference on University Governance.

Dr. LeRoy Condie published the 1971 Navajo Calendar. He continues to direct the Navajo Social Studies Project which is in its final year of operation. Dr. Condie served as a consultant to the Navajo Community College and the Committee of Jicarilla Apache Social Studies Curriculum. He was a member of the planning committee for the annual Navajo Education Conference.

Dr. David Darling was heavily involved in the planning and negotiations for the many bilingual education projects founded for the coming year. His article on "Why a Taxonomy of Affective Learning?" was selected for publication in a book of readings for the fourth time. He made a presentation at the state meeting of Teachers of Mathematics. He worked closely with the State Department of Education personnel and public school personnel on educational concerns of minority group children in New Mexico. Dr. Darling was elected to the U.N.M. Policy Committee as the COE representative. He served as a consultant to the public schools in Santa Fe and Silver City. He was elected President of the Albuquerque High School Parent-Teacher-Student Association.

Dr. Harold Drummond published an article in Theory Into Practice. Professor Drummond served as Chairman of the Review Council of the National Association for Supervision and Curriculum Development. He is a member of the Editorial Advisory Board of Childcraft. He served as a consultant to the State Department of Education and to public schools in New Mexico and other states. He served on various university and college committees including the Academic Freedom and Tenure Committee. He was chairman of the COE Policy Committee and several department committees.

Dr. Dolores Gonzales published a translation of Deserts by Delia Goetz. She directed the bilingual-bicultural projects in the department. Dr. Gonzales served as a consultant in bilingual education at the state, national and international levels. She is a member of several curricular advisory committees in Language Arts and cultural awareness. She is a member of the College Undergraduate Curriculum Committee.

Dr. Catherine Loughlin was on a Sabbatical leave for Semester I, 1970-71. She traveled to Nepal to provide leadership for the NEA/USAID Teacher Corp project to improve instruction in Language Arts and Social Studies in Nepal. Dr. Loughlin holds office in the National Association for Education of Young Children. She is very active at the local, state, and national level in the area of Early Childhood Education. This includes consulting as well as serving on various committees and policy boards.

Dr. Bernard Spolsky presented a paper at the request of the Centre for Information on Language Teaching in London, England. He has published numerous articles and reviews in publications such as Language Sciences, Britannica Review of Foreign Language Education, and Teaching English as a Second Language: Current Issues. Professor Spolsky is directing the Navajo Reading Study and has several related studies underway in Navajo language maintenance, the language of six-year-old Navajo children, and the like. He is chairman of the Coordinating Committee for the Program in Linguistics and Language Pedagogy. He coordinated the efforts of the Danforth Committee that studied the graduate linguists programs during the past year. He also served on other important college and university committees. Professor Spolsky will be on a Sabbatical leave/Guggenheim Fellowship to study and work in Israel during the 1971-72 academic year.

Dr. Mari-Luci Ulibarri published an article "Cultural Difference Revealed through Language." She has a third monograph in press and is doing contract writing for Harcourt, Brace & Company. She has been recorded on video tape for a nationwide broadcast on television by one of the three major commercial broadcasting companies. She is very active as a consultant and lecturer at the state, national, and international levels. Dr. Ulibarri is also active in a leadership capacity in state and national organizations concerned with multi-lingual-multicultural education.

Dr. Richard Van Dongen completed his Ph. D. in August of 1970. Dr. Van Dongen is on the State Textbook Adoption Committee and the Department of Education Committee on the Improvement of Reading Instruction. He is President of the Local Council of the International Reading Association.

Dr. Helen Walters has remained active in various professional associations. She also served on the college Manzanita Center Committee.

Mrs. Lenore Wolfe served as a consultant and teacher in New Mexico, Texas, and Arizona in the area of early childhood education. She attended the annual meeting of the National Association for the Education of Young Children in Boston and was the New Mexico Delegate. Mrs. Wolfe will teach in Nepal during the summer of 1971 in the NEA/USAID Teacher Corp program in Nepal.



Dr. Miles V. Zintz is in the process of revising his book Corrective Reading, William C. Brown Publishing Company. He has also published articles on bilingualism and reading for the bilingual child in various newsletters and journals. He has served as a consultant at the state, national, and international level. Professor Zintz served as director of the Reading Resources Network Center, ERIC/CRIER in the COE and is a Board Member of the Albuquerque Association for Children with Learning Disabilities. Professor Zintz will be on a Sabbatical leave next year and will study in Central and South America.

#### Growth in Student Credit Hour Production

The department has been responsible for a considerable increase in student credit hour production over the past three years. Table I shows the credit hour production for the past three academic years.

TABLE I

#### Student Credit Hour Production

	Sem. I & II 1968-69	Sem. I & II 1969-70	Sem. I & II 1970-71
El. Ed.	4,306	4,898	7,045
C & I (El. Ed.)	600	1,392	1,702
Total	4,906	6,290	8,747

Student credit hour production increased by 28 percent in 1969-70 over the 1968-69 enrollment. Credit hour production in 1971-72 was increased by 39 percent over the 1969-70 level. Although the summer credit hour production figures are not recorded in the table, the rise in credit hour production is comparable to that indicated for the academic year. There was a 26 percent increase between the 1969 (1,201) and 1970 (1,515) summer session credit hour production figures.

Although a good portion of the growth can be accounted for by enrollment in special projects, not all of the growth can be accounted for in this manner. If the department is to maintain the quality standard that we have in the past then we must make a significant number of new additions to our faculty.

Memo to: Dr. David W. Darling

from : Miles V. Zintz

subject: Special Activities of the Department of Elementary Education

In the ten diagrams that follow, I have tried to describe the special activities which I could identify in the department.

1. Bilingual Programs and Preparation of Bilingual Materials;
2. International Elementary Education - Quito, Ecuador;
3. Navajo Reading Study;
4. Navajo Social Studies Project;
5. Early Childhood Education Specialists for Spanish-Speaking Children;
6. College English Tutorial Program;
7. Reading Resources Network Center (ERIC/CRIER);
8. Schools for student teaching: 9 center schools; 2 non center; 14 intern schools;
9. In-service credit courses for teachers working with student teachers;
10. Manzanita Center provides tutoring services for reading disability cases from 26 schools in Albuquerque;
11. The Career Opportunities Program in Elementary Education.

If there are omissions, I'm sorry. I will give each person responsible for his diagram a chance to make any corrections.

THE UNIVERSITY OF NEW MEXICO  
COLLEGE OF EDUCATION  
Department of Elementary  
Education

Dr. David W. Darling  
Chairman

BILINGUAL EDUCATION PROGRAMS  
Dr. Dolores D. Gonzales, Director  
Mery Alonso, Secretary

CONSULTANTS:

Dr. LeRoy Condie  
Dr. David Darling  
Mrs. Caroline Davis  
Dr. Harold Drummond  
Mr. Cecilio Orozco  
Dr. Bernard Spolsky  
Dr. Mari-Luci  
Ulibarri  
Dr. Miles Zintz

MATERIALS PRODUCTION  
INSTITUTE

Dr. Dolores Gonzales,  
Director  
Staff:  
Miss Carolina Acosta  
Mr. George Gonzalez  
Graduate Assistant:  
Francesca Banuelos

Participants:  
Robert Gallegos  
Lorraine Gutierrez  
Orlando Lucero  
Leroy Ortiz  
Donna Rykema  
Richard Johnsen  
Albert Sandoval  
Antonio Vigil

ANITA GSUNA CARR  
COLLECTION/ LNC

Dr. Dolores Gonzales,  
Director  
Graduate Assistant:  
Wendy Hassemer

TITLE VII, IN-  
SERVICE TRAINING  
(Grants, Coronado)

Mr. George Gonzalez,  
Director  
Staff:  
Miss Carolina Acosta  
Dr. Dolores Gonzales

FOLLOW-UP  
GUADALAJARA  
INSTITUTE  
SUMMER, 1990

Mr. George  
Gonzalez,  
Director  
Staff:  
Mr. Cecilio  
Orozco,  
Part-time

Latin American Projects  
College of Education  
Dr. Frank Angel, Director

Department of Elementary Education  
Dr. David W. Darling, Chairman

Ministry of Education  
Quito, Ecuador  
National Textbook Program  
Improvement of Instruction  
in Normal Schools

UNM Staff in Ecuador

Mr. Joe Gandert  
Chief of Party

#### Elementary Education Staff

Dr. Dolores Gonzales, Assoc. Prof.  
1967- 1969 (Textbook Specialist)  
Mr. George Gonzalez,  
1968 - 1970 (Teacher Education,  
Textbook Specialist)  
Miss Eustolia Perez,  
1970 - 1971 (Teacher Education,  
Textbook Specialist)

#### Short Term Consultants

Dr. Mari-Luci Ulibarri 1966, Quito  
1967, Guayaquil  
1970, Quito  
Dr. Miles V. Zintz 1966, Quito  
1967, Quito  
1970, Quito  
Dr. Keith Auger 1968, Quito  
1970, Quito  
Dr. Willie Sanchez, 1967, Guayaquil  
1970, Quito  
Mr. Arturo Chapa 1970  
Mr. Roberto Gallegos, 1970  
Mr. Auscencio Romero 1970

University Programs  
Linguistics and Language  
Pedagogy  
Dr. Bernard Spolsky, Director

Department of Elementary  
Education  
Dr. David W. Darling, Chairman

Navajo Reading Study  
Dr. Bernard Spolsky, Director

Wayne Holm, Co-Director  
Judy Benedetti, Secretary

Language Census (1) (2) (4)

Wayne Holm  
Paul Murphy (Analyst)  
Irene Silentman (interviewer)  
Marlene Bennally (interviewer)  
Theda Harrison (interviewer)  
Priscilla Arthur (interviewer)

Language Analysis (2) (4)

Wayne Holm  
Babette Holliday (transcriber)  
Jock Embry (programmer)  
Judy Harvey (native linguist)  
Irene Silentman (analyst)

Bibliography (4)

Agnes Holm  
Fenny Murphy

Materials Preparation (2)

Wayne Holm  
Judy Harvey (writer)  
Richard Johnsen (Materials  
expert)

Dialect Study (3)

Bernard Spolsky  
Garland Bills  
Wayne Holm  
Eddie Thompson  
Babette Holliday

- (1) Funded in part, summer 1970, by Nuveen Foundation.  
(2) Funding awaited from BIA and Ford Foundation.  
(3) Funding requested from UNM Faculty Research Grants.  
(4) Funded 1969-1970 by BIA.

4

THE UNIVERSITY OF NEW MEXICO  
COLLEGE OF EDUCATION  
Department of Elementary  
Education  
Dr. David W. Darling  
Chairman

THE NAVAJO SOCIAL STUDIES PROJECT

Dr. Le Roy Condie  
Director

PILOT SCHOOLS

Bureau of Indian Affairs  
Navajo Area  
Division of Education  
Wm. J. Benham, Director

Aneth Elementary School  
Dzilth Na O Dithle School  
Many Farms Elementary School  
Many Farms High School  
Toadlena Elementary School  
Tuba City Elementary School  
Wingate Elementary School  
Wingate High School

Staff

Jane Wiley, Manuscript Editor  
Juanita Cata, Writer  
Laura Lee Sharp, Writer  
Patricia Booth, Writer  
Carol C. Stout, Writer

PILOT SCHOOLS

Public and Mission Schools

Cuba Elementary School  
Fence Lake Elementary School  
Lybrook Elementary School  
Magdalena Elementary School  
Navajo Elementary School  
Navajo Methodist Mission  
Elementary School  
High School  
San Juan Elementary School

THE UNIVERSITY OF NEW MEXICO

SCHOOL OF EDUCATION

Department of Elementary  
Education

Dr. David W. Darling  
Chairman

ALBUQUERQUE PUBLIC SCHOOLS

Dr. Tom Wiley  
Superintendent

Albuquerque Public Schools

Area South

Mr. E. A. Garinsek  
Superintendent

EARLY CHILDHOOD EDUCATION SPECIALISTS  
for

SPANISH-SPEAKING PEOPLE OF THE SOUTHWEST

Dr. Marie Hughes  
Director

Staff

Dr. Joanne Woods, Asst. Prof. of Educ.  
Mrs. Helene Weaver, Asst. Prof. of Educ.  
Miss Victoria Mills, Instructor  
Mrs. Marian Donaldson, Secretary

Participants

1. Archuleta, Nathaniel B.
2. Armstrong, Sister Josephine
3. Bassore, Bill
4. Cantu, Ernesto
5. Henry, Ida Bell
6. Kaprosy, Gerald
7. Lucas, James D.
8. Mena, Charles
9. Wallace, George
10. Werschke, Jeanne

OLD TOWN ELEMENTARY SCHOOL

David Syme, Principal

Laura Atkinson  
Program Coordinator

Staff:

Selma Cohen, Kindergarten  
Sarah Gaston, Kindergarten  
Eleanor Valdespino, Kindergarten  
Patricia Basil, First  
Jeanine Bissetti, First  
Cheryl Dushane, First  
Carmen Ruth, First  
Adele Saavedra, First and Second  
Barbara Adolph, Second  
Eloise Arrellanes, Second  
Susan Bergstrom, Second  
Margaret Lebya, Second  
Deborah Bergquist, Third  
Mary Esquivel, Third  
Donna Herbolich, Third  
Annette Perno, Third  
Patricia Hammond, Third and Fourth  
Norberta Almeraz, Fourth  
Deborah Brown, Fourth  
Nancy Graham, Fourth  
Nancy Spittle, Fourth  
Evelyn Hand, Secretary

THE UNIVERSITY OF NEW MEXICO  
 The University College Teacher Education Center  
 Dr. William Baker  
 Director

Dr. William Baker  
 Director

THE COLLEGE ENGLISH TUTORIAL PROGRAM  
 Dr. Dean Bridges  
 Director

English Division  
 Dr. James Baker  
 Director

College English  
 Tutoring Program  
 Staff:  
 Graduate Assistants:  
 Betty Jo Dabbs  
 Marlene Gill  
 Charles Funkhouser  
 Jane Kerker  
 Paul Murphy

All-Indian English  
 Tutoring Program  
 Staff:  
 Graduate Assistants:  
 Douglas Stevenson  
 Bertrude Norris

English-as-a-Second-  
 Language Coordinator  
 Dr. Gina Harvey  
 E. S. L. Program for  
 Foreign Students  
 Staff:  
 Graduate Assistants:  
 James Karl -  
 English 103P  
 Harriett White-  
 English 101P  
 Gnake Perinpanavagam-  
 English 102P

Dr. Dean Bridges holds professional rank and is appointed to all primary education.



THE UNIVERSITY OF NEW MEXICO

COLLEGE OF EDUCATION

Department of Elementary  
Education:

Dr. David W. Darling  
Chairman

READING RESOURCES NETWORK  
CENTER

Miles V. Zintz, Director

ADVISORY BOARD

1. Mr. Aragon, Shiprock
2. Dr. Phil Barck, Santa Fe
3. Mrs. Blanche Collie,  
Santa Fe
4. Mr. Edward deJarnett,  
Roswell
5. Miss Rosina Espinosa,  
Espanola
6. Dr. Mildred Fitzpatrick,  
Albuquerque
7. Dr. Dolores Gonzales,  
Albuquerque
8. Mrs. Veronica Honaker,  
Albuquerque
9. Mrs. Mary Keith, Las Cruces
10. Dr. Mavis Martin, Albuquerque
11. Mrs. Faye Meyer, Albuquerque
12. Dr. Ruth Mattila, Las Vegas
13. Mr. Henry Pascual, Santa Fe
14. Dr. Jerry Rainwater, Portales
15. Dr. Verna Vickery, Albuquerque
16. Mr. Walter Weir, Santa Fe

Caroline Davis,  
Librarian,  
Learning Materials  
Center

Blair Hysmith,  
Graduate Assistant  
ERIC/CRIER/ RRNC  
Organization  
Cataloging  
Dissemination  
Newsletters  
Meetings

Consulting  
Dr. Dolores Gonzales  
Dr. Bernard Spolsky  
Dr. R. Van Dongen  
Dr. L. H. Walters  
Dr. Robert White  
Dr. M. L. Ulibarri

Department of Elementary Education  
Dr. David W. Darling  
Chairman

Elementary Education  
Student Teaching Programs  
Dr. Keith Auer, Director

Junior Block Schools

Acuña  
Alvarado  
Aspen  
Bel Air\*  
Chelwood\*  
Hawthorne  
Kit Carson

Senior Block Schools

Armijo  
Collett Park  
Montgomery  
Navajo

Schools for Intern Teaching

Alameda  
Alamosa  
Aztec  
Eubank  
Inez  
Kirtland  
La Luz  
MacArthur  
McCollum  
Mitchell  
Sandia Base  
Sierra Vista  
Wherry  
Zuni

\*Non-Center Schools

Department of Elementary Education

Dr. David W. Darling, Chairman

In-service Education in Student-  
Teaching Centers

Dr. Keith Auger, Director

Semester	Course	Schools	No. Enrolled
I, 69-70	El. Ed. 429: Suprvn of Student Teaching	Alvarado Aspen	25
II, 69-70	El. Ed. 429: Non-graded Schools and Team Teaching	Navajo Collett Park Comanche Armijo	45
	El. Ed. 429: Suprvn of Student Teaching	Acoma Bel Air	25
I, 70-71	El. Ed. 429: Non-graded Schools and Team Teaching	Montgomery Aspen	30
II, 70-71	El. Ed. 453: Science in the Elem School	Senior Centers	50
	El. Ed. 461: Mathe in the Elem School	Junior Centers	50
	El. Ed. 429: Suprvn of Student Teaching	Hawthorne	25

College of Education  
The University of New Mexico  
Dr. Richard Lawrence, Dean

Department of Elementary Education  
Dr. David Darling, Chairman

Department of Guidance and Social Education  
Dr. Louis Bernardoni, Chairman

Manzanita Center  
Dr. Louis Bernardoni, Director

# Remedial Reading Services

Dr. Richard Van Dongen, Supervisor

School	Client	C. A.	Reader Level
Adams Jr Hi	1	12	second grade
Albu Ind Sch-Voc Rehab	2	20	pre-primer
Alvarado	3	9	first grade
Bandelier	4	11	second grade
Bellhaven	5	11	primer
Cleveland Jr Hi	6	13	second grade
Duranes	7	11	first grade
Duranes	8	10	first grade
Eubank	9	11	second grade
Harrison Jr Hi	10	13	sixth grade
Hodgin	11	8	second grade
Hoover Jr Hi	12	14	second grade
Jefferson Jr Hi	13	14	third grade
La Mesa	14	9	pre-primer
La Mesa	15	7	pre-primer
Lutheran Parochial	16	8	pre-primer
McKinley Jr Hi	17	12	sixth grade
Mission Ave	18	10	primer
Mitchell	19	8	pre-primer
Nativity Parochial	20	11	first grade
Sandia Base	21	10	third grade
Van Buren Jr Hi	22	12	fourth grade
Yucca	23	7	foreign language problems
McKinley Jr Hi	24	13	fifth grade

Continued:

School	Client	C. A.	Reader Level
Laguna	25	9	Pre-primer (brain injury)
Los Salinas	26	13	First grade (foreign language)
Heights Catholic	27	12	Second grade
Navajo	28	11	Second grade
Adult	29	30	Third grade (brain injury)

Mr. Robert Aragon  
Director  
Career Opportunities Program

Dr. David W. Darling  
Chairman  
Department of Elementary Education

Dr. Mary Ann Stone  
Assistant Professor of Education  
Education Director

General Education	Program Development	On-The-Training	Classroom Instruction	Cooperating Teachers
<p>English 101 - 3 sem hrs credit all students enrolled*</p> <p>Sociology 101 - 3 sem hrs. credit or Ed. Fdns. 290 - 3 sem hrs credit</p>	<p>Production of syllabi Involvement of the community in planning the COP program</p> <p>The plan necessitates a three-year college program - new courses where required - participants will be enrolled in regular university courses the third year.</p>	<p>El. Ed. 100 - Directed experiences with children in classrooms - Level I all students enrolled. 2 sem hrs credit each semester</p> <p>Second year, Level II, El. Ed. 200</p>	<p>El. Ed. 129 - Workshop - assisting teachers in class- rooms - Preparation and use of instruc- tional materials in the classroom. 2 sem hrs credit each semester.</p> <p>Second year, Level II El. Ed. 229</p>	<p>El. Ed. 429 - 2 sem hrs credit - Efficient use of COP participants. 4 principals in attendance '70-71.</p> <p>Elem. Schools: John Marshall East San Jose Longfellow Eugene Field Riverview</p>

\*Note: 61 young people from the Model Cities Area (75% Spanish-surnamed, 25% Black) are enrolled in a three year program designed to get them through two years of college and an A. A. degree in two years. The third year of the program is designed so that they may be registered as "regular" juniors in college working toward the degree of bachelor of science in education.

Of the 61 enrollees, twenty-three are male and 38 female, about 75% are from the Model Cities Area.

Thirteen are Vietnam veterans and two are handicapped individuals. About 25% are "middle-aged."

The Report of the Department of Guidance & Special Education

July 1, 1970 - June 30, 1971

L. C. Bernardoni, Chairman

I. General Departmental Information:

A. Significant achievements during the 1969-70 academic year:

1. New courses added:

- a. Guidance 430: Dynamics of Human Behavior, Guidance 540: Counseling in the Elementary School, Guidance 610-611: Internship I and II.
- b. Special Education 383: Education of the Mexican-American, Special Education 419: Special Education in the Regular Classroom, Special Education 610-611: Internship I and II.

2. Workshops:

- a. Guidance: During the summer, two workshops were conducted. One was a workshop in Vocational Guidance conducted in conjunction with the National Alliance of Businessmen, the other a workshop in Counseling conducted in association with the State Department of Vocational Rehabilitation. In the fall, a workshop "Guidance Greats" was conducted in conjunction with the Albuquerque Public Schools. This workshop was taken for credit by over 350 participants. During the spring, a workshop was conducted on the Dynamics of Human Behavior.

- b. Special Education: During the summer, workshops were conducted in Learning Disabilities, Special Education in the Regular Classroom, and Motor Skills Learning for the Handicapped. During the fall, a workshop was offered for the Upward Bound students.
3. In-service Training Projects: During the spring semester, in-service training was conducted with the counselors from the Division of Services for the Blind on a weekly basis. Throughout the year, Special Education personnel conducted in-service training sessions with teachers in the Albuquerque Public Schools involving informal seminars, the showing of a film produced by the department, and cooperative efforts in selected Special Education classes.
4. Special Education Materials Center: In cooperation with the Albuquerque Public Schools and the State Department of Education, a learning materials center was operated at the Santa Barbara School throughout the year.
5. During the summer, three classes of Special Education students were held in Manzanita Center in conjunction with the EPDA Institute. In the spring semester a small class of children with learning disabilities was also housed and conducted in Manzanita Center. Throughout the year, practicum students counseled with people under the supervision of the staff.
6. Field experiences for the practicum students in counseling have been expanded during the year. Practicum students have been placed in the following facilities: The

Albuquerque Public Schools, selected parochial schools, the Mental Health Center, Nazareth Hospital, Veterans Administration Hospital, Division of Vocational Rehabilitation, Child Guidance Center, Child Development Center, the Health Services, the Counseling Center, Rehabilitation Center, Goodwill Industries, Presbyterian Hospital, the Detention Home, Job Corps, Youth Services Center, Los Lunas Hospital, YWCA, Alcoholic Treatment Program, Catholic Social Services, Convulsive Disorder Unit, and Technical & Vocational Institute. Arrangements were made with the Health Center and the Counseling Center at the university for the employment of four interns for the following year. Special Education practicum students have been involved with Special Education in the Albuquerque Public Schools, the Mental Development Center, Los Lunas Hospital, and selected private schools.

7. The department cooperated with the formulation and initial planning for an EPDA Institute in training Pupil Personnel Services workers headed by Dr. Louis Dahmen. Continued participation in this program is anticipated for the next year.
8. Training Grants received by the department are listed below:
  - a. A training grant in Rehabilitation Counseling from the Rehabilitation Services Administration was received which included five advanced trainees and two beginning trainees.
  - b. A training grant in Emotional Disturbance was



received from the Bureau of the Handicapped for five year-long trainees.

c. Traineeships in Mental Retardation were received from the Bureau of the Handicapped and included 3 year-long fellowships and 20 junior and senior year-long traineeships

d. A training grant was received from the State Department of Education for ten fellows during the summer and one fellow during the academic year.

e. An EPDA grant in Special Education involving the training of teachers of Special Education children in the regular classroom involved receiving thirty trainees for the summer, and fourteen for the academic year.

In addition to the above training grants, two members of the department had NDEA fellowships and one had a university scholarship.

9. During the year, a major in Special Education at the undergraduate level was approved by the college and university faculties, and an undergraduate minor in Special Education was approved by the College of Arts & Sciences.

B. Student Population:

1. Guidance: The following figures are approximate in many cases since it is impossible to verify exact numbers. At the present time, there are 40 persons in the doctoral program in guidance, 15 of whom were in residence during the past year. This corresponds to 46 in the doctoral program last year. During the year, five doctoral degrees were granted, versus eight for the past year. At the doctoral level, hence, there

is a slight decrease in students. The level of students in the doctoral program is anticipated to remain constant; this is feasible since there are a number of opportunities for the doctoral students to contribute to the program as well as achieve an education. Next year there will be four doctoral students in internship, and six, probably, in assistantships. This, then, accomodates most of the people who need financial help at the doctoral level. Currently most of the doctoral students are heavily involved in internship or practicum-type activities which contribute to the education of the master's level students as well as affording them an opportunity to supervise activities at a high professional level. At the master's level, there are 200 persons in the program - 150 of whom are in residence during any one semester. During the past year, sixty persons were awarded Master's Degrees which compares with sixty-five the previous year, indicating, again, a slight decrease at this level. In addition, there are ten people in post-master's programs that are not admitted to the doctoral program. The screening procedure at the doctoral level is the same used by all departments in the College of Education. In addition, all doctoral candidates are required to visit the campus and be interviewed by staff members before they are accepted by the department. During the selection process, past experience and the results of personal interviews are heavily weighted in addition to other sources such as past academic records, the Millers Analogy Test score, recommendations, samples of writing, and autobiographical data.

At the master's level, the department has restricted incoming master's students to sixty per year which should maintain the current level. At the present time, all applicants must be admitted by the Graduate School, must fill out a departmental application, present autobiographical data, and be interviewed by the department staff before they are accepted. Currently the department is turning down four-fifths of the people who apply, and all those admitted have excellent potential according to past experience, grade point average, and preparation appropriate to the counseling area. Because of selective admissions, there appears to be an intense increase in the number of students who wish to enroll in guidance courses. These include individuals from other areas who wish to minor or take electives in the guidance area, persons who wish to be certified in counseling, and a large number of persons who have been denied admission to the program but wish to take courses with the possibility of being accepted in the future. During the past year, enrollment in guidance has increased approximately 40% over the previous year despite a reduction in the numbers of persons accepted in the master's or doctoral program.

During the past year, the department members in the guidance program have met weekly for half a day to completely evaluate the program. This has resulted in the restructuring of many of the courses as well as the experiences involved in the total program. Much of the experience afforded to our students is not reflected in the transcript since they are required to

engage in six hundred hours of supervised practicum experiences at the master's and doctoral level for which they only receive six hours credit.

The last external review was the NCATE review which was very favorable toward the program but indicated a need for more staff.

Most of the doctoral students who graduate from our program are teaching at colleges and universities throughout the country. The other doctoral graduates hold a variety of jobs, including jobs in clinical settings such as mental hospitals, mental health clinics, counseling centers, or are in private practice. The majority of the master's students are working in agencies other than schools. These include rehabilitation agencies, employment services, and a variety of government programs.

The evaluation of teaching effectiveness in guidance is based primarily on a systematic student input. Student representatives meet with the guidance faculty weekly and express the evaluation of the students concerning the program. In addition each year all students in the guidance program are invited to a meeting whereby they may submit either verbal or written evaluations of the program. At the termination of their program, after students have completed the comprehensive examinations, they are also asked to evaluate the teaching effectiveness involved in the program.

Class sizes vary tremendously in the program depending on the nature of the course. Introductory courses which are open

to students who have not been admitted to the program tend to be large and, frequently, involve forty to sixty students. The classes which are open only to students who have been admitted to the program have been reduced in size due to selective admission and the reticence of instructors to allow students not in the program to enroll in these courses. The size of the course at the master's level has decreased in succeeding semesters and is approximately twenty-five people. At the doctoral level, most of the seminar courses are composed of about fifteen students.

The guidance staff includes seven full time professors and five part time professors which results in the full time equivalency of approximately nine professors. One full time professor and part of the part time instruction is financed by a grant from the Rehabilitation Services Administration. Last year this grant was in the amount of \$40,758.00.

2. Special Education: At the present time, there are ten doctoral candidates in Special Education, approximately five of whom are in residence. Two doctorate degrees were awarded during the past year. Most of the students pursuing doctorate degrees are graduate assistants. There are ten people pursuing post-master's work who are not in the doctoral program. At the master's level, approximately 150 people are pursuing the master's degree, 100 of whom are in residence at any one given semester. This figure is grossly misleading in that, due to the lack of opportunities in traditional teaching areas and the opportunity in Special Education, a

large number of individuals are taking courses hoping to become certified. While only thirty-eight persons were awarded master's degrees during the past year, the student enrollment in Special Education has increased very rapidly. With the possibility last year of a Special Education undergraduate major, many students have flooded into courses that are open to undergraduates. The student credit hour figure has increased from 2,332 for Semester I and II of 1969-70, to 4,453 from Semester I and II of 1970-71. These figures would indicate slightly over 190% increase in a one-year period.

Students admitted to the doctoral program are admitted on a highly selective basis and usually only after the individual has exhibited extreme competency locally in the academic or work situation in which he is involved. Students admitted to the master's program are interviewed and screened on the basis of academic excellence and work experience. Since a new undergraduate major is now possible, these students will be involved in the screening program at the College of Education, using the ten criteria evolved by the college. At this point, a specific quota has not been indicated, but it will be necessary to decline admission to many students who are qualified, based on the College of Education criteria.

A review of the Special Education program is accomplished in much the same way as outlined above for Guidance. Evidence of the worth of the program, in addition to those outlined previously, is accomplished by a follow-up of the

graduating students. The graduates have had no trouble in obtaining employment in either university or school settings and reports from employers indicate that these individuals are performing at an excellent level.

The size of the classes in Special Education vary from the advanced classes which are limited to an approximate 15-student enrollment, to extremely large classes which are open to undergraduate students. Many classes have been closed out to students with enrollments of from 60 to 80 students. With the addition of an undergraduate major, the department will assume greater control of admission into classes and soon may have to limit enrollment to those individuals who are pursuing a major.

The source of support for the Special Education program is entirely inadequate as far as internal monies are concerned. Most of the program is financed by outside sources which include:

- a. A Mental Retardation grant from the Bureau of the Handicapped for \$41,700.00.
- b. An Emotional Disturbance grant from the Bureau of the Handicapped in the amount of \$21,200.00.
- c. An EPDA grant for the amount of approximately \$100,000.00.
- d. A State Department of Education grant in the amount of \$14,500.00.

Because of the need for Special Education personnel, and the desire of many people to enter this field, an increase

on the part of the university of expenditures in this area is entirely justified.

C. Significant Plans and Recommendations for the Near Future:

1. The Department of Guidance & Special Education strongly urges a separation of the department into two departments at this time. The major factors entering into this plan are that (a) the large number of funded programs within the department render this department unwieldy as far as a single administrative unit is concerned, (b) if the department were split and Special Education became a separate department, a dramatic increase in funding from the Washington level would be feasible, (c) the size of both programs are sufficiently large so they warrant department status.
2. Due to the stabilization of the need for counselors in the region, and an increase in the need for rehabilitation counseling, the department is expending more effort in training rehabilitation counselors than school counselors.
3. The department has continued to expand its program in Learning Disabilities in Special Education and hopes to continue in this direction within the next year.

D. Appointments to the Staff:

1. Dr. Clifford Abe appointed to Guidance & Counseling, September, 1970.
2. Dr. Gary Adamson appointed to Special Education, June, 1971.
3. Dr. James Everett appointed to Special Education, June, 1971.



4. Dr. W. C. Moony appointed to Special Education, September, 1970.

D. Separations from the Staff:

1. Dr. George Amerson, June, 1971.
2. Dr. B. L. Brooks, June, 1971.
3. Mrs. Zee Swearengin, June, 1971.

II. Composite of information requested on individual biographical supplements:

1. Advanced Study:

Clifford Abe

The prediction of academic achievement of Mexican-American students (Doctoral Dissertation, University of Arizona).

Ann Arbor, Michigan: University Microfilms, 1970.

George T. Amerson

Investigation of the social, economic, and educational adaptation of an instate population (Doctoral Dissertation, University of Oregon).

Louis A. Bransford

Advanced study in Chicanismo - 3d World Humanitarian Institute.

William R. Fishburn

Private practice Certificate in Psychology, Indiana.

Robert Hicali

Awarded Diplomate Diploma, School Psychology, American Board of Professional Psychology.

2. Sabbaticals, etc.

Louis A. Bransford

Program coordinator, Mental Retardation: Janan, Utah, Oregon, Colorado, Washington, D.C.

George L. Kenners

Visiting professor of Guidance, Winona State College, Winona, Minnesota, summer session.

3. New Scholastic Honors:

Louis A. Bransford

President's Committee on Mental Retardation, Who's Who in the West, Rosemary Dybwad International Award in Mental Retardation, Outstanding Educators in America.

Benjamin L. Brooks

Biographical sketch in Leaders in Education, 4th edition.

George L. Konners

Who's Who in the West, Dictionary of International Biography, 1971-72.

4. Publications:

Louis C. Bernardoni

Book accepted for publication, 1971.

Louis A. Bransford

"Doctoral Programs in Mental Retardation: A Biased Perspective," T.E.D. Division of C.E.C. Newsletter.

Benjamin L. Brooks

Articles (3) submitted for publication in professional journals.

Marion J. Heisey

Articles (3) submitted for publication in professional journals.

5. Other Research Projects or Creative Work in Progress:

George T. Amerson

Co-author, HEW proposal for Emotionally Disturbed, funded.

Louis C. Bernardoni

Evaluation of Rough Rock Bilingual-Bicultural Education Program sponsored by U.S.O.E.

Louis A. Bransford

Director of Chicano Studies Program; Director, Unward Bound Program; Director, College Enrichment Program.

Benjamin L. Brooks

EPDA Institute "Ungrading Special Education in the Regular Classroom", 2 year funding approved. Production of 32 minute film "Ungrading Special Education in the Peculiar Classroom."

Marion J. Heisey

"Cultural Enrichment for Navajo Children." Title I project through Bloomfield, New Mexico public school system.

George L. Kenner

"Early Indications of the School Drop-Out," co-director with Eva Lynn Rollins in Albuquerque public schools. University Research Grant #260, 1970-71 academic year.

Marion H. Marks

Research on non-verbal communication in preparation for writing a grant.

6. Activities in Learned & Professional Societies:

Clifford Abe

Participant: National Rehabilitation Association Annual Convention, San Diego, California.

Louis C. Bernardoni

Board of Directors, New Mexico Rehabilitation Association, presented paper to New Mexico Rehabilitation Association meeting, participated in meetings of Project Directors in Emotional Disturbance.

Louis A. Bransford

C.E.C. Board of Governors, past local president; A.A.M.D. Region VI Chairman; Interstate Board of A.A.M.D.

Benjamin L. Brooks

American Association on Mental Deficiency, Region IV; E.P.D.A. Regional Meeting, Kansas City; E.P.D.A. Research Institute, Oregon; Board of Directors, Lourdes Half-Way House.

William R. Fishburn

President, New Mexico Group Psychotherapy Association.

Marion J. Heisey

Attended National Convention of A.P.G.A., New Orleans.

Robert Micali

Participant, New Mexico Psychological Association.

Zee M. Szwarcman

Program Chairman, New Mexico Association for Children with Learning Disabilities; participant in California Association for Children with Learning Disabilities Conference, North Dakota Association for Children with Learning Disabilities Conference, National Association for Children With Learning Disabilities Convention.

Marian N. Works

Attended convention of Council for Exceptional Children.

Gordon A. Zick

Attended A.P.G.A. Convention, New Orleans; participant, Group Symposium, Athens, Georgia.

7. Other Professional Activities:

George T. Aronson

Guest speaker concerning modification of behavior of children with

behavioral disorders. New Mexico and Idaho public schools and mental health agencies.

Louis C. Bernardoni

Consultant to Social Security Administration, Consultant to Regional Office concerning Adult Basic Education.

Louis A. Bransford

Guest speaker, local, state and national levels.

Benjamin L. Brooks

Consultant to Albuquerque Indian School, Consultant to Bureau of Professional Development, Model resource rooms implemented in Albuquerque public schools, in-service training in Albuquerque public schools concerning "Multihasic Approach to Integration of Exceptional Children into Regular Classroom."

William R. Fishburn

Training Consultant to New Mexico Division of Vocational Rehabilitation, New Mexico Blind Services, and Presbyterian Hospital Center, conducted Introductory Sensitivity Sessions for Sociology and Secondary Education Departments, UHII.

Marion J. Heisey

Conducted workshops (3) in Northern New Mexico, summer, 1970, Consultant to Special Education program, Farmington, N.M., Lecture, New Mexico Institute of Technology, conducted Group Dynamics sessions, directed a Retreat for elementary teachers at Lawrence Ranch.

George L. Kenners

Director and instructor, Vocational Guidance Institute, summer, 1970, Speaker, "Women's Liberation", New Mexico Society of Farm and Ranch

Managers, Panel Member, Job Clinic for Mature Women, Consultant to Volt Technical Corporation (Head Start), member, Evaluation Board, M.C.A.T.E., 1970-74.

William C. Moeny

Consultant for Special Education program, Albuquerque Indian School.

Zee H. Swearingin

Consultancies: Montreal Association for Children with Learning Disabilities; Special Education program, Veracruz, Mexico; Grants Public Schools, Title I, Socorro Public Schools, Title I; Lovelace Clinic.

Marian H. Works

Conducted workshops in Santa Fe and Bernalillo; supervised individual studies, Los Lunas Hospital & Training School; guest speaker, Albuquerque public schools.

Gordon A. Zick

Conducted Vocational Rehabilitation Workshop, guest speaker for Vocational Rehabilitation Association meetings.

8. Non-teaching University Service:

George T. Amerson

Ad Hoc Committee: Special Education Administrative Regulations.

Louis C. Bernardoni

Department Chairman, Guidance & Special Education; Director, Manzanita Center; University Committee on Rehabilitation; Administrative Committee in College of Education; Advisor to numerous graduate students.

Benjamin L. Brooks

Faculty Advisor, Student Council for Exceptional Children; Co-Director, E.P.D.A. Institute, proposal writing, PL85-926, Title V.

William R. Fishburn

Advisor, U.H.H. student group "Letting Go"; Faculty consultant, AGORA; COE Graduate Curriculum Committee, COE Drug Education Workshop Committee.

Marion J. Heisey

Secretary, Undergraduate Curriculum Committee; Secretary, Guidance faculty meetings.

George L. Keppers

Member, University Entrance & Credits Sub-committee and COE Administration Committee, Petitions Committee; advisor to M.A. and doctoral students.

Marian H. Works

Director, Special Education Materials Center.

Gordon A. Zick

Secretary, Athletic Council; member, New Mexico Research & Study Council; member, Research on Human Subjects Committee.

## 9. Public Service:

George T. Arneron

Member, AGORA, University of New Mexico.

Louis A. Pransford

Consultant to Black Berets.

Marion J. Heisey

Director, Navajo Brethern in Christ Mission, Hospital & School; Secretary, National Board of Ministerial Credentials, Brethern in Christ Church.



George L. Kenners

Sunday School teacher, Central Methodist Church.

Marian H. Works

Working with un-wed mothers, Old Town.

Gordon A. Zick

Vice President, Immanuel Lutheran Church, Sunday School instructor.

10. Personal Information:

Zee H. Swearncin

Divorced.

## ANNUAL REPORT

## DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND RECREATION

July 1, 1970 - June 30, 1971

Richard L. Holemon, Acting Chairman

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GENERAL DEPARTMENTAL INFORMATION:

During the reporting period, the department awarded 64 B.S. degrees, 20 masters degrees and 9 doctoral degrees. There was an overall enrollment of 11,436 students in departmental professional and service courses offered at either the undergraduate or graduate level.

The year was completed with several major personnel changes,-- two retirements, and a change in departmental administration. Professor Mercedes Gugisberg retired from the University after 26 years of effective service. Her last several years were devoted to the development of the Junior Block program in Physical Education. Professor Harold E. Kenney, Visiting Professor in Physical Education, retired on June 6, 1971. After eleven years of energetic leadership of the department, Professor Armond H. Seidler stepped down from his position of departmental chairman. He will continue to serve the department as a full professor in Physical Education. Professor Richard L. Holemon, who was appointed Acting Department Chairman, will serve in that position until the arrival of the permanent chairman in August, 1971.

## I. HEALTH EDUCATION

Ella May Small, Assistant Chairman

### A. Curriculum Development

- 1) Continued development and study of both professional and service curricula was carried out by the Health Education faculty and professional students. Evaluation of the undergraduate major, recently completed, resulted in several revisions. Plans for a similar evaluation of graduate programs are underway.

### B. Staff

- 1) Because of limited staff, no effort to recruit professional students has been made. A slow but consistent growth pattern was evident through the year. If the demands facing the department as the result of actions taken at the state level are to be met, this pattern will have to change. By 1975, health education, taught by certified health educators, will be required in all junior and senior high schools. By 1973, all elementary classroom teachers must be qualified to teach health education. Implications for teacher education are obvious.
- 2) At the end of Semester I, 1971-72, Mr. George Petrol will retire, leaving us with only two full-time health educators.
- 3) The greatest need in the Health Education program is additional staff. Until this

need is met, more students cannot be accepted. Neither can the demands for health educators in New Mexico by the 1973-75 target dates be met. At present, this field is one of the few in which the positions open (nationally) far exceed the personnel available.

C. Program Involvements

- 1) Health Education faculty were involved directly or indirectly in
  - a) College of Education Drug Education Committee
  - b) College of Education Adult Education Committee
  - c) University of New Mexico Drug Education Committee
  - d) College of Education Associate in Arts Program
  - e) Planning with a variety of Albuquerque, State and Federal agencies for field work opportunities
  - f) The Mid-Rio Grande Comprehensive Health Planning Agency
  - g) The Regional Medical Program: Professional Personnel Committee
  - h) The State Department of Education: planning for Comprehensive Health Education and Certification
  - i) Organization of a New Mexico affiliate of the American School Health Association
  - j) American Public Health Association, Division of Indian Health

- 2) During the summer session, 1970, through contacts with the Office of Economic Opportunity, thirty Pueblo Indians working in Head Start came to the campus for special training in health education.
- 3) An added first for Health Education was the Health Fair held in the Martineztown area. Fifty-three booths, featuring health education exhibits, were set up at Santa Barbara Center. Approximately 500 adults and children visited the fair.

## II. PHYSICAL EDUCATION

Lloyd R. Burley, Assistant Chairman

### A. Curriculum

- 1) The greatest effort and accomplishment was in the Junior Block-Curriculum Committee project. The curriculum was designed so that major students begin teaching in their junior year. To qualify them for teaching sooner, it was necessary to insure that they had mastered the essential skills of activities to be taught, therefore major curriculum revision was required. The methods and materials courses were taught at a time when the students could put them to the test in the teaching laboratory. This resulted in rearranging class schedules in blocks of time so the student teaching experience became a coordinated effort. A two-year junior block

experiment was conducted using women only. When the program proved successful, the men were to be included. This has been postponed until 1972-73. The coordination of theory and practice led to greater proficiency in teaching as determined by observation. More sophisticated research is planned to test the results of the experiment empirically.

- 2) New Curricula:
  - a) A new curriculum for Athletic Training was developed and is in operation.
  - b) Departmental approval was given to a new course "Systems of Motor Control."
- 3) Upper division courses are being scheduled on a rotating basis in summer session.

#### B. Staff

- 1) During the 1970-71 school year, the Physical Education Department had 21 faculty members, four of whom were shared with the Athletic Department.
- 2) Special Assignments:
  - a) Nine members of the Physical Education faculty carried special assignments, some of which involved released time. These people were responsible to the Chairman of the Department of Health, Physical Education and Recreation for this portion of their time. Those faculty were as

follows:

Hunt: Intramurals and Student/Faculty Recreation and assignment of facilities

Clements: Assistant Chairman Basic Instruction (Direction of Service Program)

Piper: Coordination of Carlisle Gymnasium Programs

Atterbom-McGill: Operation of the Human Research Laboratory

Locke: Editor of Quest

Estes: Sponsor of Women's Interscholastic Programs

Bond: Sponsor of Women's Intramural Programs

Gugisberg: Chairman of Junior Block-Curriculum Committee

1) Faculty Needs:

- a) Two full professors have been retired. These must be replaced by full time staff. A person is needed to plan a curriculum for training elementary school physical educators, work with the junior block program, and direct independent graduate student research. A second person is needed to aid in the women's activity program, teach professional academic courses, and direct independent graduate student research.
- b) A qualified person is needed to aid in the development and operation of the therapeutic program.
- c) With the completion of a new swimming pool, expert help will be needed to conduct the expanded program effectively.

- d) The area of administration of physical education is popular with graduate students. This area needs development.
- e) A full time woman was lost in 1969. She was replaced by Dr. Boaz half-time. When Dr. Boaz joined the recreation program full time, a shortage of one person resulted in the physical education staff operating the women's program.

C. Committees

- 1) Two standing and three ad hoc committees functioned during the year. The standing committees were:
  - a) Long Range Planning, Mechem, Chairman
  - b) Junior Block-Curriculum Committee, Gugisberg, Chairman

The ad hoc committees were:

- a) Committee to Investigate the Use of Credit Option, Estes, Chairman
- b) Committee to Establish Policy for Screening Major Applicants, McGill, Chairman
- c) Committee to Establish Needs and Priorities in Filling Departmental Vacancies, Burley, Chairman

D. Accomplishments

- 1) Progress was made toward greater faculty specialization in academic areas. Areas tentatively designated and now being developed by one or two persons are: Therapeutics, Physiology-Physiology of Exercise, Anatomy-Kinesiology, Sociological,



and Psychological-Motor Learning aspects of Physical Education.

- 2) A reorganization of activity courses was made which allows students not majoring in Physical Education to specialize in aquatics, gymnastics, dance, team sports, or individual and dual sports. This involved the organization of beginning, intermediate and advanced level courses in each area. This was a marked departure from the previous policy of offering mainly beginning courses in the activity program.

#### E. Human Performance Laboratory

##### 1) Staff:

- a) During the 1970-71 academic year, the personnel associated with the Human Performance Laboratory were:  
Hemming A. Atterbom, Director  
Frances McGill, Associate Director  
Peter Maud, graduate student, part-time laboratory assistant

A number of graduate students, most of whom specialize in the area of work physiology.

- b) The activities in which this personnel have been engaged during the year are classified as follows:
  - 1) Academic instruction
  - 2) Applied research
  - 3) Special programs
  - 4) Consultation services

## 2) Applied Research:

This area includes

- a) Completed research
- b) Research in progress
- c) Publications
- d) Research in preparation
- e) Grants or proposals
- f) Grants received

## 3) Completed Research:

- a) A study on metabolic and cardiovascular responses to graded treadmill exercise was completed last summer and the results are used as a part of the information pool necessary for a planned Cardiac Work Evaluation Center.
- b) A large project on normative physiological responses to various exercise stresses is just being completed on children ages 8-14 and adults 18-78 years of age.
- c) Three studies on exercise metabolism by graduate students
- d) Six studies related to work at altitude

## 4) Research in Progress:

- a) Study on the relationship between exercise duration and intensity with regard to training effects
- b) Study on cardiovascular and metabolic responses to submaximal work and recovery during transcendental meditation
- c) Study on reciprocal innervation in mentally retarded children attempting to seek an explanation for their clumsiness

## 5) Research in Preparation:

- a) A dissertation study involving use of the altitude chamber up to 20,000 feet
- b) Projects on cardiovascular and metabolic responses to various occupational and recreational activities
- c) Project on cardiac evaluation during rest, work, and actual occupational activity of Albuquerque fire and police personnel
- d) Study on use of  $\text{NaHCO}_3$  as an ergogenic aid in athletic competition

## III. BASIC SERVICE PROGRAM

W. W. Clements, Assistant Chairman

## A. Physical Education Requirement

- 1) Although the all-University requirements for physical education was dropped during the past year, academic credit is now given. It was felt that this loss of requirement might seriously curtail the enrollment, which, in turn, would have an effect on staff and facility needs for the future. Apparently this will not be the case. Although there was a drop during the past semester (this being the first time the nonrequired physical education rule was in effect), it was much less than anticipated. One hundred and one sections were offered with but one section in women's gymnastics, one section in men's tumbling, one in volleyball and one in badminton failing to fill. Subsequently they were deleted.

## B. Purpose

- 1) The Basic Service Program, taught partially by fifteen fulltime faculty and seventeen graduate assistants, serves not only the Department of Health, Physical Education and Recreation. It is an all-University program. Even though most of the Colleges of the University have dropped the requirement in Physical Education Activity Programs, students from all areas of the university enroll and participate in the classes. The enrollment in activity classes for the past semester was over 3000. This program is truly an all-University service.

## C. Curriculum

- 1) The service area engaged in study regarding ways to improve the schedule of activities offered. It was apparent that greater emphasis should be put on intermediate and advanced courses. This was presented to and approved by the departmental faculty. Beginning with the Fall Semester, 1971-72 academic year, courses in intermediate and advanced golf, tennis and swimming are scheduled.
- 2) Needs:
  - a) Specific courses indigenous to the State of New Mexico, such as Mexican and New Mexican Dance should be offered.

## D. Facilities Needs

- 1) An adequate swimming pool is a great need. Such a facility is presently in the process of bid.

#### E. Men's Intramural Sports

David H. Hunt, Director

- 1) The Intramural Sports Program began on the 16th of September, 1970, and concluded with its annual awards presentation on the 25th of May, 1971.
- 2) A total of twenty-nine different sports activities were sponsored and administered by intramurals. Of these, nine were team sports, seven were individual team sports, eight were dual sports, and five were individual sports.
- 3) There were approximately 66,000 different participations with approximately 6,000 different participants.
- 4) Ronald E. Jacobsen has been named Director of Intramural Sports effective June 1, 1961.

#### F. Student-Faculty Recreation

David H. Hart, Director

- 1) Open recreation occupies a very important place in the lives of many individuals, whether they be student, staff and dependent, or faculty and dependent. Open recreation allows participants to engage in numerous activities of their own choosing. Equipment is issued when proper credentials are left with the equipment room personnel.
- 2) From Monday through Friday, during the 11:30 a.m.-1:30 p.m. period, the facilities are used by many faculty and staff members, as well as students. The most popular activities appear

to be:

- a) Swimming
  - b) Handball or Paddleball
  - c) Jogging
  - d) Volleyball
  - e) Basketball
- 3) Open recreation is also conducted evenings (Monday through Friday), and on Saturdays and Sundays, including vacation periods. The facilities are closed only on special holidays, such as Thanksgiving Day, Christmas Day, New Year's Day, and Easter Sunday. The facilities were open 273 of the approximate 280 days which were possible during the school year 1970-71.
- 4) During recreation hours, many clubs use the facilities. Organized clubs include karate, square dancing, fencing, and yoga.
- 5) It is estimated that an average daily participation of 700+ individuals is a realistic figure. There were approximately 200,000 different participations for Student/Faculty Recreation in Johnson Gymnasium. There are no accurate records to determine how many persons used the adjacent fields and tennis courts during recreation hours.

#### G. Women's Intramurals

Beverly Bond, Director

- 1) This program had five principal activities in intramurals with 277 students participating in team and individual sports. They are:
- a) Volleyball - 6 teams                      50 students
  - b) Basketball - 8 teams                      75 students

- c) Softball - 6 teams 100 students
- d) Tennis singles 14 students
- e) Tennis doubles 12 students
- f) Badminton singles 14 students
- g) Badminton doubles 12 students

Unless interest calls for more variety, the same sports will be offered next year. There is an indication that these sports should be most successful.

## 2) Budgetary Implications

- a) The intramural budget is appropriate at this time for the number of students presently participating. It is felt a head official who could organize officials for each sport and substitute when necessary would benefit the program. The head official would be paid a higher fee than the regularly scheduled participating officials.

## H. Women's Sports

Linda Estes, Director

### 1) Women's sports were held in the following ten areas:

- a) Basketball
- b) Field Hockey
- c) Golf
- d) Gymnastics
- e) Skiing
- f) Softball
- g) Tennis
- h) Track and Field
- i) Volleyball
- j) Swimming

Participants competed in eight different states. Five of the ten teams qualified for and competed in national championships.

- 2) Intercollegiate sports involved more than 200 women. All teams excepting the ski team were coached by members of the department.
- 3) Budgetary needs:
  - a) The Women's Sports Program was allocated \$3950 from the University President's budget to supplement its regular budget. This permitted the most extensive and successful program ever held. It is hoped that additional funding equalling at least this sum may be made available again this academic year.

#### IV. RECREATION EDUCATION

E. A. Scholer, Assistant Chairman

##### A. Curriculum

- 1) During the past year the revised recreation curriculum as drafted by the state-wide Curriculum Study Committee was initiated after being approved by the Undergraduate Curriculum Committee of the College of Education. During the year it has become evident that additional changes must be made if the recreation curriculum is to reflect the current trends in the field.
- 2) During this year, a policy was established and approved regarding remuneration and field work. This policy has been included in the written field work manual which was drafted this past year.



- 3) Plans are presently being prepared for the establishment of a Graduate Curriculum Study Committee.

B. Community Services

- 1) Relationships were established with various community agencies and the field work was extended to additional agencies or organizations.
- 2) Staff members assisted in the planning and conducting of the Southwest Regional Outdoor Education Conference at New Mexico State University in January. All faculty participated in the New Mexico Recreation and Park Association annual meeting in Socorro as well as meetings of various state and local organizations, such as the Middle Rio Grande Travel Committee, the Council of Governments, State Planning Office, and the Albuquerque Public Schools.
- 3) The faculty cooperated with Albuquerque Public School officials in the establishment of a new course - Practicum in School Camping - to be held this summer. In addition, the faculty served as consultants to the APS in the planning for the camp development as well as the camp program.
- 4) Two programs were conducted for the Careers Opportunity Program of the Albuquerque Public Schools. One, a four-day workshop, was held during the Christmas holidays. The other, a

ten-day regular University class, Recreation 290, 2 semester hours, was conducted between the spring and summer semesters.

- 5) The faculty worked on many projects of the Center for Leisure and Recreation. Several of these activities were:
  - a) Planning for a National Forum on Minorities in Parks and Recreation
  - b) Recreation Workshop for Armed Forces Personnel
  - c) Operation and Maintenance of Swimming Pools Conference
  - d) Conservation in Recreation and Youth Camp Conference
  - e) Evaluation of Parks and Recreation in Belen
  - f) Feasibility Study of Tourism on the San Juan Pueblo
  - g) Special Olympics

#### C. Faculty

- 1) Faculty members attended several conferences during the year. such as the International Leisure Research Conference; the American Association for Health, Physical Education and Recreation National Convention; the National Recreation and Park Congress; the Family Camping Conference; the State AAHPER Conference and the National Conference on Indian Outdoor Recreation and Tourism. At all conferences, the faculty either presented papers or were on one or more committees.

V. Composite of Information Requested on Individual Biographical Supplements

1. ADVANCED STUDY:

Hemming A. Atterbom, Ph.D., University of Oregon, final exam: 12/16/70, passed

Jacquelyn Boaz, Doctor of Philosophy, 6/13, 70, University of Minnesota

2. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING, ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD:

Jacquelyn Boaz, Summer travel in Minnesota visiting State & Municipal recreation facilities and programs, i.e., State Hospitals, Minneapolis Park System, etc.

Lloyd R. Burley, attended Southwest District of AAHPER Convention in Hawaii. Represented N.M. in the Executive Board at meetings held at the convention

Woodrow W. Clements, attended Southwest District of AAHPER Convention in Hawaii. (two weeks)

Linda K. Estes, attended Southwest District of AAHPER Convention in Hawaii. Travelled in West, Southwest and Midwest. Tennis Institute, Lamar Tech, Beaumont, Tex.

Sharel A. King, leave of absence, Semester II, 1969-70 (maternity)

Frances McGill, Study with Dr. Ulrich Lufft, Lovelace Foundation for Medical Education and Research

Russell D. Mitchell, 1) Rome-International Coaches Course; 2) Switzerland "National Team" Coaching Session; 3) Russia - Coach U.S.A. Gymnastics Team; 4) Nat'l High School Rules Comm; 5) U.S.G.F. Advisory Board; 6) U.S.Olympic Comm.; 7) Nat'l Coaching Staff, Olympic Gymnastics Team; 8) U.S.G.F. Foreign Relations Committee; 9) Co-Director Western Gymnastic Clinic

Janice K. Olson, taught summer workshop, Western New Mexico University, 6/70

Frank E. Papcsy, Trip #1 - Austria, Germany, Italy; Trip #2, Holland, Poland, England; Trip #3, Germany, Austria

Charlotte L. Piper, Southwest District of AAHPER, Kauai, Hawaii

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.:

Lloyd R. Burley, Fellow, AAHPER

Woodrow W. Clements, Recipient of the New Mexico Assn for AAHPER Honor Award for the year 1970

David H. Hunt, nominated as a member of the President's Council on Physical Fitness and Sports

Lawrence F. Locke, Pi Lambda Theta Award for Outstanding Books in Education; Education Book List selected Research in Physical Education as one of Twenty Outstanding Books in Education for 1969-70

Frances McGill, Fellow, American College of Sports Medicine

Frank E. Papcsy, Fellow, American College of Sports Medicine

Charlotte L. Piper, 15-year recognition award, American Red Cross

Armond H. Seidler, Distinguished Service Leadership Award, UNM HPER Alumni Banquet, Detroit, Michigan, 1971

4. PUBLICATIONS:

Lloyd R. Burley, developed a "Resident's Report" for presentation at the state meeting of the NMAHPER

Lawrence F. Locke, "Heterosexuality of Women in Physical Education", The Fall, Winter, 1970, with Mary D. Jensen; Review of J. Scott, Athletics for Athletes (see previous supplement) reprinted in Quest XV, Winter, 1970.

Frank E. Papcsy, "Over & Under" publisher, AAHPER Journal - Challenge, Pages 4-5, May-June, 1970

E.A. Scholer, "Indian Lands Welcome Campers," Better Camping, Vol. 11, No. 10, Issue 85, October 1970, P. 20-25; "Indian Reservations Offer Top Recreation," Albuquerque Journal, NM Vacation Edition, Sunday, May 10, 1970, H-I, pp. 22; "Camping with the Indians,

Santa Clara Canyon Recreation Area," The Campfire Chatter, Vol. XIV, No. 5, September 1970, pp. 18-19

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD:

Hemming A. Atterbom, 1) Intragastric  $\text{NaHCO}_3$  as an ergogenic aid in athletics; 2) Attitudinal Modification of the Astrand-Rhyming Nomogram; 3) Classification of treadmill and ergometer exercises

Jacquelyn Boaz, development of a Field Work Manual for Recreation students

Lloyd R. Burley, restructuring the Physical Education curriculum at UNM

David H. Hunt, National Summer Youth Sports Program, Research connected in this Federal Project was initiated and funded by the researcher; In the process of writing two chapters for a book with Dr. Kenney and Dr. Seidler

Lawrence F. Locke, Completed chapter accepted for revised edition of AERA handbook of Research on Teaching, with John Nixon. Costs of one-year project underwritten by UNM and Stanford University; completed and disseminated draft booklet containing standards for research proposals; continued work on several projects described in previous Supplement; AAHPER Scholarly Directions project, TM Follow-up, P.E.T.E. project.

Frances McGill, Effects of a season of field hockey on resting and working heart-rate; Text on Organization of Sports Program (in progress)

Frank E. Fapcsy, "Effect of Motor Skill Learning on Adolescent Mentally Retarded" funded by State Dept. of Vocational Rehabilitation \$25,000, termination of grant, August, 1970

E. A. Scholer, "An Evaluation of Park and Recreation Programs and the areas and facilities of Belen, NM."

## 6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

Hemming A. Atterbom, 1) American College of Sports Medicine, read paper: "Effects of Intragastric  $\text{NaHCO}_3$  on the Capacity for Brief Maximal Work"; 2) Medical Convention, Juarez, Mexico, invitational lecture on exercise rehabilitation of cardiopulmonary disease (in Spanish)

Jacquelyn Boaz, NM Outdoor Education Conference; NM Assn for HPER convention; NM Parks and Recreation convention; Membership - National Recreation and Parks Assoc; Amer. Assoc. for Health, Physical Education

Lloyd R. Burley, President NM Assn for HPER; Member Representative Assembly AAHPER; member Executive Board Southwest District AAHPER; President, Executive Board NMAHPER; Editor, Newsletter NMAHPER.

Woodrow W. Clements, attended National Meeting of HPER; Chairman, Health Section, NMEA; Membership in Local, State & National Professional organizations; Major for approximately 35 undergraduate students; Adviser for several graduate students; member of both Masters and Doctoral Committees

Phyllis Douglass, attended National Meeting of American Public Health Assn; American School Health Meeting, Houston, Texas (10/76); attended National AAHPER convention, Special pre-convention Research Session for Health Education, Detroit, Michigan (4/71)

Linda K. Estes, attended Southwest District AAHPER Convention in Hawaii; National Assoc. of PE for College Women in Minnesota; Intermountain Conference for College Women in PE Utah; Western Society for College Women in PE, California

Judith B. Hall, attended: USGF Congress of Coaches; Intermountain Conference, NMAHPER; Vice-Chairman, USGF Women's Comm.

Fred Hinger, Attended NM AAHPER Conference; NM Consultant for Elementary Physical Education

David H. Hunt, attended the NSYSP Seminar in Washington, D.C.; As Committee Chairman, I was responsible for synthesizing group comments and reporting to the entire group; spoke on my program regarding the innovations and statistics of its operation

Sharel A. King, attended N.M. Assn for HPER

Lawrence F. Locke, "The Design and Theory of Research on Teaching" read at Research Section, NCPEAM National Convention; "What Research says about Teaching Physical Education," Keynote Address, EAPECW convention

Frances McGill, Chairman, National Commission on Intercollegiate Athletics for Women; Governing Council, U.S. Gymnastics Federation; Executive Council, Division for Girls' and Women's Sports; Program Committee, Western Society for P.E. of College Women; Intermountain Conference for P.E. for College Women; National Assn for P.E. of College Women Workshop; Commission on Intercollegiate Athletics; U.S.G.F. Governing Council

John H. Mechem, Coach, UNM, NCAA Swimming Team; attended all Rules Meetings at Ames, Iowa

Janice K. Olson, NMEA-NM AAHPER, NM State Membership Chairman; NM Board of Women's Officials-Volleyball, Chairman; DGWS-National Volleyball Rules Committee; NM State AAU Women's Basketball & Softball Tournaments All-Star Selection Committee;

Frank E. Papcsy, Chairman, Therapeutic Council; Nat'l Assn of HPER -- meetings in conjunction with this responsibility at Chicago, Cincinnati, Philadelphia, New York, San Diego, Los Angeles, Las Vegas, London, England; Galveston, Texas; U.S. Representative of Nat'l Assn of Retarded Children to the International Assn of Retarded Children, The Hague, Netherlands, 8/17/70; Delegate to XVII World Congress of Sports Medicine, Oxford, England, September, 1970; Delegate to Perceptual Motor Learning Seminar, Cincinnati, Ohio

Charlotte L. Piper, Speech presented at Southwest District AAHPER, Kauai, Hawaii; Winter Conference of NM P.E. Women; American College of Sports Medicine Conference; Southwest District AAHPER Nominating Committee (AAHPER-American Assn of Health, Physical Education & Recreation)

E. A. Scholer, "Society for Park & Recreation Educators; Chairman, Constitution & By-laws Comm; Member, nominating committee, AAHPER; Member Council

on Outdoor Education & Camping; Member, Commission on Research & Evaluation; Member International Relations Council; Family Camping Federation-Chairman Education Committee; member Research Committee, American Camping Assn & Phi Delta Kappa; N.M. Recreation & Park Assn, Chairman, Standards Committee; National Park & Recreation Assn Congress, Philadelphia; Conference on Outdoor Education, N M State University, Program Planning Committee & paper presented "Family Camping Activities as an integral part of Outdoor Education"

Armond H. Seidler, attended NMHPER Annual Convention, Seattle, Washington; NMEA Convention, Abq; American College of Sports Medicine joint meeting in Toronto, Canada; Five-State Conference in Techniques & Methods in PE for M/R, Physically Handicapped & Neurologically Handicapped, Indian Wells, Calif.; NMAAHPER convention, Detroit, Michigan

Ella May Small, American School Health Assn National Convention, Houston 10/70; American Public Health Assn National Convention, Houston, 10/70; Planning Committee for a State Assn of American School Health Assn

7. Hemming A. Atterbom, 1) Postgraduate course for Intensive Care Nurses, lecture on exercise rehabilitation of cardiac patients + laboratory practical instruction on work testing of patients; 2) TV appearance, Channel 5, The Golden Years, talk on physical activity for the retired

Jacquelyn Boaz, Consultant-Tracks Committee Meeting of New Mexico Horse Council; Consultant-N M-West Texas Armed Forces Recreation Society Workshop

Phyllis Douglass, Vice-President for Health Education of New Mexico; Member, Executive Board of N M HPER

Judith B. Hall, Consultant to NM Girl's Division

Fred Hinger, delivered two commencement addresses

David H. Hunt, made several radio and TV appearances related to NSYSP; served as consultant for the Kirtland Air Force Base invitational paddleball tournament



Sharel A. King, Folk Dance exhibition group performed at Kirtland Air Force Base; Four Seasons Nursing Home 12/10/70; Abq Music Club 11/10/70; Terrace Trailer Park, 10/16/70; Basketball Half-time 12/12/70; Boys Home 12/18/70

Lawrence F. Locke, represented UNM at TTT Conference at University of Miami; served as Resource Specialist for Columbia University Post-Doctoral Symposium on Motor Learning and Performance. Served second year of four-year appointment as Editor of Quest

Frances McGill, National Sports Medicine Committee, AAUC, Co-Director, Tucker Golf Tournament

John H. Mechem, made two television appearances

Russell D. Mitchell, numerous performances & exhibitions for charitable organizations; numerous assembly programs, clinics

Janice K. Olson, Abq High Schools weekly Officiating Clinics, 11/70-5/71; Eastern NMU Officiating Clinic 1/9/71; Univ. of Abq Officiating Rating Clinic 3/20/70; 4/17/71

Frank E. Papcsy, Consultant-University of Illinois, Cheney State College, Westchester State on Motor Learning for the Handicapped

Charlotte L. Piper, Banquet speech at NMAHPR Convention; Program of Recreation Section for NMAHPR

E. A. Scholer, television interview - Center for Leisure & Recreation, 1/7/71, Channel 5; Director Summer Adventure Program, 1970; Director, Action Program for Exceptional Children 1970; Member Advisory Board, Navajo Park & Recreation Commission; Summer Recreation Program Canuncito Navajo, in cooperation with Abq Public Schools; Member New Mexico Outdoor Writer's Assn-Chairman Membership Committee; Consultant work with Indian tribes in Recreation and Tourism; assisted Abq Inter-Tribal Dancers in organization and administration of all-Indian Pow Wow; Consultant and Director of six-day Workshop for Abq Public Schools Career Opportunities Program; Member, Advisory Board State Office of Bureau of Land Management

Armond H. Seidler, two TV appearances;  
consultant, facilities design - two universities

Ella May Small, consultant on informal basis in  
Health Education for State Department of Education,  
Health Education - Job Corps and A. P. S.

8. NON-TEACHING UNIVERSITY SERVICE:

Hemming A. Atterbom, Director Human Performance  
Laboratory; Director, Adult Fitness Program;  
Director, Summer Sports Fitness School for Children

Jacquelyn Boaz, Education Committee of Family  
Camping Federation; Professional Preparation  
Committee of New Mexico Assn for HPER; University  
Committee on Human Subjects; Faculty advisor to  
undergraduate students; advisor on two problems  
courses; committee member on three doctoral  
committees; supervisor of two Ed. Foundation 611

Lloyd R. Burley, member Research Policy Committee;  
Chairman Ad Hoc Committee on Student Financial Aid;  
Member, Junior Block Committee (P.E. Dept);  
Assistant Chairman, Physical Education

Woodrow W. Clements, Member, Junior Block  
Committee; Assistant Chairman for Basic Service  
Program in Physical Education

Phyllis Douglass, Member, HPER Departmental Long  
Range Planning Committee

Linda K. Estes, Director of Women's Sports;  
Coach of Women's Tennis Team; Departmental Honor  
Awards Committee; Dept. Chairman Evaluation  
Criteria Committee; University College Advisor

Judith B. Hall, Coach, Women's Gymnastics Team;  
Women's Junior Block Committee

Fred Hinger, member HPER Junior Block Committee;  
member, COE Undergraduate Curriculum Committee

David M. Hunt, Director, Student-Faculty Recreation  
and Intramural Sports; Coordinator of Johnson Gym  
facilities; Supervisor of Equipment Room Staff;  
membership on several assigned Departmental  
Committees and Ad Hoc Committee

Sharel A. King, Advisor, University College

Lawrence F. Locke, Graduate Curriculum Committee, Chairman; Ad Hoc Committee on Selection of Associate Dean; Ad Hoc Committee on Research in COE (Policy Committee); Ad Hoc Committee on Graduate Study in HPER; COE Research Committee (Position Paper only)

Frances McGill, Associate Director, Human Performance Laboratory; PE Curriculum Committee; Chairman, Human Research Review Committee

John H. Mechem, Junior Block Committee; Curriculum Committee (Revision) HPER; Short Term Faculty Needs Committee

Russell D. Mitchell, member, HPER Junior Block Committee

Janice K. Olson, Women's Junior Block Committee; Overall Junior Block Committee; UNM Women's Inter-collegiate Volleyball Coach

Frank E. Papcsy, Director, Therapeutic PE Programs for academic year; served under Dr. Gay, UNM Medical School on Committee established by Vice President Travelstead to coordinate all health sciences; member, Departmental Curriculum Committee; College Evaluation Committee member; advisor 30+ graduate students - 30-40 undergraduate students

Charlotte L. Piper, Special Counselor at Counseling Center; Coordinator of Women's Programs; COE Appellate Salary and Advancement Committee; Recreation Curriculum Committee; Women's Swim Coach

E. A. Scholer, Chairman University Committee on Rural Land; Member, Ad hoc Committee, COE, to establish a frame-work for an AA Degree; member, COE Cultural Diversity Task Force; Director, Center for Leisure and Recreation, a program of ISRAD; member, Committee for Development of Socialization Activities and Counseling for the Disabled; participant, Urban Observatory; faculty advisor graduate and undergraduate students; Assistant Chairman for Recreation

Armond H. Seidler, Intramural Board; UNM Facilities Committee

Ella May Small, Director, Health Education Programs; Chairman, COE Drug Education Planning Committee;

member, COE Adult Education Committee; Regional Medical Program-Personnel Committee; Comprehensive Health Planning-State and Regional; advisor Health Education graduate and undergraduate students; Assistant Chairman for Health Education

9. PUBLIC SERVICE:

Jacquelyn Boaz, work with NM Quarter Horse Association; work with Minnesota Quarter Horse Association; Coaching three women in Track and Field; Work with Rio Grande Horse Association; Work with NM Branch of American Horse Show Association

Lloyd R. Burley, First Aid Instructor, American Red Cross; First Aid Merit Badge Counsellor B.S.A.

Woodrow W. Clements, member, Trinity Methodist Church

Linda K. Estes, Active in NM Democratic Council; New Democratic Coalition; Vice Chairman of Precinct 461

David H. Hunt, assisted in organization and administration of two projects at Kirtland Air Force Base, gave several underprivileged children (30%) the opportunity to attend University and Albuquerque events (mainly sports oriented) at no charge through the N.S.Y.S.P.

Sharel A. King, First Counselor in Las Lunas Relief Society (Women's Group LDS Church)

Frances McGill, Water Safety Instructor-Trainer, American Red Cross

Janice K. Olson, volunteer Multiple Sclerosis Fund Raising Committee

Frank E. Papcsy, Board of Directors, Abq Assn for Retarded Children; Board of Directors, Special Education Center; member, Learning Disabilities Association; Fund Collector - various organizations

E. A. Scholer, Board member, Bernalillo County Chapter American Red Cross; Open Space, Agriculture, Recreation and Tourism sub-committee, Council of Governments

Armond H. Seidler, member Metropolitan Parks & Recreation Advisory Board

## 10. PERSONAL INFORMATION

Sharel A. King, daughter, Dianne King, born  
2-2-70

John H. Mechem, daughter, Kaiann, born 8/26/71

## THE REPORT OF THE DEPARTMENT OF HOME ECONOMICS

July 1, 1970 - June 30, 1971

Ednell M. Snell, Chairman

## I. General Department Information

## A. Significant achievement during the academic year 1970-71.

Freshmen who intended to be majors in home economics were introduced to the new curriculum. Basically the curriculum is built on a foundation in anthropology, psychology, sociology, and economics rather than physical and natural sciences. Twenty-four semester hours from these areas are required. A core of home economics courses will be required on all programs. It is only partially developed due to lack of staff and resources. It will include 16 semester hours. This year a Freshman Seminar with field experiences with a professional home economist, and the course Food For Man were started. Next year Clothing Behavior and Marriage and Personal Development will be added at the sophomore level. Additional home economics courses will be selected or required to meet professional certification.

Attempts are still being made to get a better balance of socio-economic backgrounds in the nursery school. The major problem has been related to transportation of the children, and the two hour sessions.

The home management house kitchen was remodeled. The individual carrels for food science laboratory are built and Mrs. Harris is busy developing materials to use with students in an open lab.

Home economics education classes worked with the WISH Program in Model Cities; and, child development classes continued to interact with Model Cities Child Development Programs. Summer School classes in management of nursery school worked with children and families in Model Cities. Home management students worked with individual families of nursery school parents and some welfare parents. Lack of student and faculty time prevented this from being as helpful as we might like. Advanced nutrition students participated in helping with food stamp program.

The course Secondary Education 310 has been dropped making it necessary for the Department to add three hours of professional education. The class experimented with a three hour weekly pre-student teaching experience, and two class periods on campus. Students were extremely enthusiastic about this experience.

Teaching effectiveness was a topic for faculty discussion. Three faculty members participated in the campus-wide evaluation. In addition, five of the six evaluated each class. Faculty members had in-service meetings with Dr. Cooper to improve use of research findings in teaching. Four faculty members attended workshop type meetings in their area of specialization.

The Department receives outside funds from the Allied Medical Health Grant and the State Vocational Education funds. Even with these grants, there is need for additional resources

for faculty and space. Faculty in the Department have from three to seven different preparations each year and have 12-15 actual credit loads a semester. With this teaching load faculty have little time for creative scholarship and research. Additional resources to lighten teaching loads will do much to improve quality of teaching and improve morale.

B. Number of students.

Twenty-two students graduated receiving a B. S. in Home Economics Education and four MAT's in Home Economics were awarded. One of the Bachelors degrees was a double major in education and dietetics.

Six students applied for dietetic internships. Four of these people completed requirements in B.U.S. One was a masters degree candidate also completing requirements for the internship.

All but one student have received and accepted internships. The sixth student is considering an internship at this time. Last year three students finished and accepted internships for an increase of a hundred percent. These students should satisfactorily complete these internships by August.

One hundred students were home economics majors taking courses this year. In addition, probably an equal number of freshman and sophomores still in University College were enrolled in courses in the Department.

The number of majors in home economics is staying comparatively constant with an increase of two or three students a year. However,



the number of students taking classes increased 200 from 1968-69 to 1970-71. The increase seems to be in the number of minors and the number of students electing courses in home economics.

The dietetic program has 10 sophomores, 9 juniors and 6 seniors. Most of these students are also double majors in home economics education.

One, two and three hundred courses were closed prior to the close of registration both semesters this year. Specialized classes at the four and five hundred level were the only ones not filled to capacity.

The Department screens students primarily on grade point average. Home Economics majors take 5 to 7 courses in the Department prior to screening and faculty advise students in relation to continuing in the program. Attention needs to be given to identifying more definite criteria.

There is no formalized follow-up of graduates. Records are kept informally as faculty and other students report. When additional staff and resources are available, formal procedures should be developed.

C. Plans and recommendations.

The Department plans to work to complete revisions of the curriculum at the junior and senior year to continue to provide more field experiences. Areas that need strengthening are family life and housing and home furnishings.

Screening at both the graduate and undergraduate level will be a focus of faculty study.

Hopefully, second semester will see the beginning of open labs in food science.

D. Appointment to staff.

Mr. Terrance Olson will join the staff in September, 1971.

Mr. Olson is a specialist in family life and will complete his doctorate at Florida State University during the year.

E. Separation from staff.

None.

II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced study:

Carolyn M. Hill - Two classes (6 hours) Pacific Oaks College, Pasadena, California.

Mary M. Smith - Six units, Michigan State University; and three units UNM.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel:

Florence M. Schroeder - Taught continuing education course at Santa Fe Indian Institute, June 1970.

Ednell M. Snell - Taught eight weeks summer session Oregon State University graduate and undergraduate courses.

3. New scholastic honors, fellowships, etc.:

None

4. Publications:

None

5. Other research projects:

None

6. Activities in learned and professional societies:

Ruth B. Harris - President, New Mexico Home Economics Association; attended national meeting of American Home Economics Association.

Carolyn M. Hill - Attended NAEYC National Conference; project chairman Albuquerque Home Economists.

Florence M. Schroeder - Secretary NMAEYC, 1970-72; Member Committee Child Development Center Planning Mental Health Association; Policy Advisory Committee Program for Children, Bernalillo County.

Mary M. Smith - Attended Western Regional Conference of College Teachers of Home Management.

Ednell M. Snell - Western Regional Workshop Home Economics Teacher Educators; Chairman Elect of group; State Advisory Committee State Department of Vocational Education, National Meeting State Supervisors and Teacher Educators, invitational.

7. Other professional activities:

Ruth B. Harris - Speeches to community groups on nutrition.

Carolyn M. Hill - Consultant for equipment Israel Child Development Program.

Florence M. Schroeder - Presented twenty minute TV for NMSU Extension Service.

Mary M. Smith - Talk on credit to Model City Community Home Economics Program.

8. Non-teaching University service:

Ruth B. Harris - Advisory Committee on Bureau of Educational Planning, Nutrition Planning Project Committee, UNM Medical School; Kappa Omicron Phi advisor.

Carolyn M. Hill - Undergraduate Curriculum Committee, College of Education; Co-advisor UNM AHEA.

Florence M. Schroeder - Manzanita Committee Member; UNM Insurance and Retirement Committee.

Mary M. Smith - Learning Materials Center Committee, College of Education; Co-advisor UNM AHEA group.

Ednell M. Snell - Administrative Committee, College of Education; ad hoc Associate Arts Degree Committee; ad hoc Vocational Education Committee.

9. Public service:

Ruth B. Harris - New Mexico Council on Food, Nutrition, Health.

Carolyn M. Hill - Alter Guild, church.

Imogene McMurray - Vocational talk and chairman nominating committee for "Woman of the Year" El Segundo Chapter ABWA.

Ednell M. Snell - WISH Board, Model City Project; Altrusa Vocational Committee.

10. Personal information:

None

ANNUAL REPORT  
DEPARTMENT OF SECONDARY EDUCATION  
July 1, 1970 - June 30, 1971  
Dr. Robert J. Doxtator, Chairman

Introductory Statement

The 1970-71 Annual Report for the Department is in three parts. Part I involves general departmental information as has usually been presented. Part II is new in the format for the Annual Report and is entitled Program Report. Included by the Chairman and departmental Program Heads in Part II is information formerly included in Part I (e.g., number of students choosing to enter departmental programs, additions to and separations from staff, etc.). Part III is the composite of biographical information customarily submitted.

In a very real sense the 1970-71 Annual Report for the Department involves attempted clarification of departmental identities, acceptance of the demands for increased accountability with response in presentation of increased statistical information, and explanation of, if not clarification of, departmental organization and function -- or dysfunction.

PART I

General Departmental Information

INTRODUCTION

The department entered the year 1970-71 with numerous temporary personnel arrangements and contracting of new personnel. Two major changes

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of personnel occurred mid-year. Business Education was hardest hit at the beginning of the year with several part-time personnel employed to handle students and programs and a new effort, with Professor Heemstra being on leave. Industrial Education had a one-year replacement at the beginning of the year with Professor Warner on leave plus employing part-time personnel for some new efforts as well. General Secondary Education had one temporary appointment within its faculty and lost a faculty member to extended leave (Stoumbis) plus losing to sabbatical a faculty member who is also chairman. General Secondary Education sought to move on some new fronts as well. Large numbers of students, instability of personnel, new demands and desires on the part of faculty, students, and public were an underlying source of difficulty throughout the school year.

Injection of new elements into the arrangements between Albuquerque Public Schools and the University produced uncertainty about financing several of the department's student teaching programs as well as other aspects of the relationship, involving participation of the department's students in the public school programs. More specifically, it was necessary to cancel all plans for preparation of APSCOE cadets in both the Prouse and Howard projects for next year. Whether the department continues APSCOE-type projects, or professional semesters, or divided professional semesters, with or without budget arrangements with APS, or whether the department will venture into new geographical situations and educational settings is unknown at present. Discussions are

underway at this time for a professional semester-type arrangement for the Mid-School Center at Hoover Junior High (Howard).

The so-called teacher oversupply, the Regents' action in limiting enrollment, the Graduate School's concern with quality in graduate education, all present the department with matters for thought and concern as the year 1970-71 ends and the year 1971-72 begins.

A. Significant Achievements during the Academic Year 1970-71

1) In an effort to stabilize personnel and to provide more for accountability for the year 1971-72, a significant action taken in the department and college 1970-71 has been the shift from the present heavy reliance of planning to employ part-time and temporary instructors to a policy of filling the Stoumbis' position with a permanent appointee possessing strong credentials in mathematics and science and a second, new position with a permanent appointee having strong preparation in teaching of modern foreign languages and language in general.

2) The addition of 1/2 personnel each to Business Education and Industrial Education is a significant step. Business Education hired a full-time person as Professor Reva requested half-time status. Greater stability seems possible in Business Education for 1971-72. Industrial Education hired two graduate students- special assistants and more manpower is available for use in a tight program, albeit part-time personnel are still heavily represented in Industrial Education for 1971-72.

3) The entry of the department into Adult Basic Education

via Professor White's efforts (and the Chairman of the department in administrative aspects) continued to move the department in the direction of new opportunities for service.

4) The Department maintained its activity in the Job Corps, in the Albuquerque High School Spanish Project, in the block programs in Industrial Education and Business Education, and continued development of the junior core course, Sec. Ed. 361. The APSCOE block programs were brought to conclusion without total disaster. Professor Tweeten continued development of the professional semester in sciences.

#### B. Significant Plans and Recommendations

1) More by way of recommendation than plan, Business Education and Industrial Education personnel wish to explore the possibilities of developing more definitive vocational education programs, specifically AA program possibilities at the undergraduate level and graduate-level vocational education program possibilities. The matter needs examination by the total department.

2) More by way of recommendation than plan, General Secondary Education faculty wish to explore the more effective use of departmental personnel than by direct assignment of personnel to supervision of student teachers. The matter needs examination by the total department.

3) More by way of recommendation than plan, there has been comment about the need for coordinators within the department (e.g., coordinator of undergraduate programs, coordinator of graduate programs). The matter needs examination by the total department.



4) It is assumed that the department will continue to move in the direction of block programming at the undergraduate level with attention to field experiences and curricular development opportunities for undergraduates. The foregoing brings into focus the question of what the departmental graduate programs emphasize. The latter matter needs attention by the total department.

## PART II

### PROGRAM REPORT

#### Introductory Statement

Directions for completion of the program report are listed below:

To the extent possible each program report should deal with the following:

- a. number of students in each phase of the program
- b. Selection procedures for admission of students into programs
- c. results of internal and external review
- d. follow-up of graduates
- e. evidence of teaching effectiveness
- f. class size
- g. sources and adequacy of support (inside and outside)

The department can be said to have three major components: Business Education, Industrial Education, and what the Chairman of the Department identifies as General Secondary Education. Separate program reports will be found for Business Education and Industrial

Education attached to this section which will deal with General Secondary Education. Professors Albert Giordano and Chester Brown are identified in the Fall '71 schedule and in the 1971-72 University catalog as Program Heads of Business Education and Industrial Education. They are the respective authors of the attached reports for Business Education and Industrial Education.

### General Secondary Education

#### a. Some Parameters

As the Chairman of the Department sees matters, faculty members in General Secondary Education are specialists in curriculum and instruction in the secondary school. The faculty members are also students of the setting within which secondary schools reside. Course, workshop, seminar, and institute titles and outlines corroborate the foregoing, at least somewhat. The graduate level course, S. E. 501, The High School Curriculum, suggests the range of faculty concern as "total". The undergraduate level course, S. E. 432, Teaching the Social Studies in the Secondary School, suggests a more specialized concern. S. E. 429, Workshop, Language Arts for the Disadvantaged, suggests sociological interest. Units, or discussions and readings, in S. E. 361, Pre-Student Teaching in the Secondary School, dealing with adolescent behavior, learning theories in application, the organization, and function -- and dysfunction -- of secondary schools, objectives and measurement, suggest aspects of faculty "total concern". Interdisciplinary interests are perceivable as running through GSE faculty

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thinking and teaching, evidenced by S. E. 546, Economic Education, the proposed undergraduate and graduate Humanities major and minor, and other offerings and activity.

The placement and supervision of student teachers (undergraduate students) and interns( graduate students) in field settings, and faculty visitation, observation, counselling with such students, are considered by GSE faculty to be important matters of practical application of theory. With respect to internships, opportunity is available for training and experience for those who wish to prepare to work with pre- and in-service education of teachers.

At the undergraduate level, supervision of student teachers by the faculty is limited to areas of math, science, language arts, social studies and foreign language. Put another way, at the undergraduate level, the General Secondary Education faculty is primarily and almost entirely concerned with "the academic areas" of the curriculum. The General Secondary Education faculty supervises, with a few exceptions, no undergraduate student or graduate intern in art, music, PE, home economics, business education, or industrial education.

The work of the General Secondary Education faculty is primarily with upper division undergraduate students and with graduate students. Regular budget monies are drawn from state and national tax funds, fully 80% or more. General Secondary Education secures few grants as "outside support". Except for some salary complaints, the monies have been adequate and have allowed for employ-

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ment of part-time personnel to keep pace somewhat with enrollments.

b. The Faculty

For 1971-72 University Account Number 015-009-110 lists four and one-half faculty members under the heading of Business Education. University Account Number 015-009-210 lists four and one-half faculty members under the heading of Industrial Education. University Account Number 015-009-010 lists the following faculty members and they are the ones whom the Department Chairman has in mind when he refers to the faculty of General Secondary Education: Doxtator, Ivins, Crawford, Runge, Prouse, Howard, Tweeten, White, Hirshfield, Esparza, plus replacements for Drs. Engman and Ronan. Sigmund Mierzwa has already been hired to replace Dr. Engman for 1971-72. A modern language educator is being sought as a replacement for Dr. Ronan.

The above twelve faculty members teach the courses and other offerings involving the number of students to be described on the following pages, advise undergraduate and graduate students in the College of Education, advise undergraduate and graduate students interested in teacher preparation but who are enrolled or will enroll in other departments and colleges of the university. The twelve GSE faculty members serve on committees on studies and on dissertation committees, often as chairman of a committee; have served and do serve as elected members of college and university committees, major ones requiring much time; serve as consultants to the State Department of Education and to

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schools, sometimes to schools out-of-state, as well as serving as consultants to organizations (e.g., the Principals' Association); serve as officers and in other capacities in local, state, and national organizations; are active on civic, religious and social fronts; write research and speak; and live private lives.

The figure twelve is misleading in the foregoing. In order to understand the work load of the General Secondary Education faculty, the figure 10 should be used. Tweeten is 1/2 time elementary education, Doxtator is 1/2 time chairman of the department. The equivalent of a full faculty member is not available for teaching classes or supervising student teachers or interns. Crawford is 3/4 New Mexico State Chairman of the North Central Association and Runge is 1/4 time placement and administration of student teachers in the secondary schools plus coordinating and administering vocational education matters. The equivalent of another full-time staff member is not available to GSE for teaching classes and supervising a seminar of student teachers. It is true that Doxtator, Crawford, Runge and Tweeten do serve on committees on studies and dissertation committees, sometimes as chairmen, and do advise university students of all kinds and at all levels. However, ten full-time faculty members is a more realistic view of faculty available for the staffing of classes and seminars of student teachers at the undergraduate level, and the staffing of classes, plus the supervising of interns, problems, and master's and doctoral students in examinations, theses, and dissertations at the graduate level in General Secondary Education.

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c. Faculty Changes, 1969-70, 1970-71, 1971-72

(Manpower and the Departmental Budget)

All twelve of the positions for the General Secondary Education faculty mentioned previously were carried on the departmental budget 1969-70 and 1970-71. General Secondary Education acquired a staff addition fall '69 with all department members (Business Education and Industrial Education included) participating in the allocation decision. Fall '70, General Secondary Education acquired a second staff addition through a prior commitment tied to an AID contract, entered into willingly by all contracting parties spring, 1968.

Fall, 1969, Drs. Prigmore and Kline joined the General Secondary Education faculty. The former was a one-year replacement for Dettre, former member of the GSE faculty. The latter was technically attached to the department and taught no courses for the department under the heading of Secondary Education, listed in the schedules printed and distributed three times a year and listed and printed in the University catalog. Mid-69-70 Prigmore became 3/4-time Administrative Assistant to the Dean of the College and 1/4-time teaching on assignment by the Dean, "at the pleasure of the Dean". Howard, former Administrative Assistant to the Dean, was returned to the department as a full-time faculty member in General Secondary Education. 70-71 Prigmore was carried on the departmental budget by name, with no salary figure recorded. The budget for 71-72 carries neither the names nor

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salaries of Drs. Prigmore and Kline. The point of the foregoing is that some supplemental manpower was available to General Secondary Education, 69 to 71. Dr. Prigmore taught some courses for GSE and Dr. Kline taught some lessons (or units) in GSE courses staffed by GSE personnel. Both men served on committees on studies and on dissertation committees for GSE. Additionally, Dr. Kline taught courses enrolling students from a wide variety of departments, units and programs, including GSE. Parenthetically, the Chairman of the Department expects to have added to the department budget for 71-72 two personnel, one primarily for Library Science education courses and the other for A-V courses. The point being made is that additional manpower will continue to be available to some degree to GSE.

#### d. Faculty Load

The General Secondary Education faculty is on a twelve-hour load per semester. Formulas issued by former Dean Travelstead serve as standards to gauge a faculty member's work load. One three-credit class represents 1/4 load. Supervision of six student teachers (2 student teachers = 1 credit hour) represents 1/4 load. Advisement of 30 undergraduate students (University College and others) represents 1 credit hour (the foregoing will vanish from the criteria for figuring load as the new registration and advisement scheme goes into effect). Advising 15 graduate students equals 1 credit hour. Supervising 1 doctoral student in the active writing stages of his or her dissertation

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equals 2 credit hours to be claimed no more than two semesters by a faculty member. Supervising students signed for 5 credit hours of Problems equals 1 credit hour on load. Serving as chairman of 1 master's thesis committee equals 1 credit hour. No credit on load has been given to General Secondary Education faculty members for service on committees at departmental, college or university level.

In figuring faculty load in General Secondary Education for Semester I, 70-71, three faculty members in GSE were judged to have 13-hour loads, one a new faculty member and the other a new faculty member and one-year appointee. One had a 24-hour load. The remaining eight clustered around 17 hours as a load figure. (Parenthetically, the average load for all personnel in the department, Business Education and Industrial Education included, was 17). The Chairman of the Department was told that his load was 17 hours. Faculty members in GSE have had loads higher than 12 credit hours, derived according to formulas, for the past four years.

A view held by the GSE faculty is that undergraduate courses ought to be held to 25 students. 15 graduate students to a course is thought ideal. In practice, the undergraduate figure has been held to with more success than the graduate figure over the past four years. A faculty member dealing in one semester with four undergraduate courses (full load) would be apt to be dealing with 100 students (at 3 student credit hours each, total 300 student credit hours for that faculty member). That same faculty member might be dealing with 2 undergraduate



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classes (50 students) and 2 graduate classes (30 students), total 80 students or 240 student credit hours, a second semester.

e. Admissions

All students in General Secondary Education (as well as all University students intending to prepare for certification for teaching) attend the college-level screening meetings. GSE faculty then receives transcripts and other data, conducts interviews with the applicants, and the various faculty recommend to the Chairman of the Department "admit", "do not admit", or "admit with stipulations".

1. Undergraduate

As can be seen in Figure 1 which follows, over a three-year period, fall, spring, and summer in each of the three years, 1459 undergraduate students applied for admission. The foregoing averages to approximately 486 students applying for admission per year. 265 were denied admission, an average of approximately 88 per year, leaving an admit per year of approximately 398 students to GSE undergraduate programs. Over the three-year period the admits year-by-year were 379, 417, and 389. Probably the 417 figure SS 69 to Spring 70 reflects some "panic enrollments" of persons seeking their way into education and teaching, with the American economy fluctuating due to close out of jobs on other fronts. The figures were forwarded to the department chairman by personnel in the office of the Dean. Not shown are 85 applicants for admission to Summer Session 71. The figures for SS 68, 69, 70, 71 indi-

FIGURE 1  
SECONDARY EDUCATION  
SCREENING

<u>SESSION</u>	<u>ADMITTED</u>	<u>NOT ADMITTED</u>	<u>TOTAL APPLIED</u>
SS 1968	55	20	75
Fall 68-69	168	40	208
Spring 68-69	156	51	207
SS 1969	69	23	92
Fall 69-70	194	40	234
Spring 69-70	154	26	180
SS 70	71	12	83
Fall 70-71	186	38	224
Spring 70-71	132	15	156

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cate, therefore, requests for admission numbering 75,92,83,85 respectively. Analyzed in a larger context, all of the foregoing figures suggest little if any "levelling off" of undergraduate enrollment for GSE in the semesters immediately ahead because of any so-called teacher surplus.

Current body count for GSE (II, 70-71) indicates 1 freshman, 92 sophomores, 159 juniors, and 184 seniors for a total of 436 students. The 436 figure exceeds the 398 average admit figures by 38. Probably a backlog or "pool" of admits always contains "sleepers" who suddenly appear a semester later.

## 2. Graduates

Enrollments were requested by the Graduate School of the number of graduate and non-degree students in GSE courses, spring 71. The body count in Figure 2 which follows was submitted, along with body count for Business Education and Industrial Education, in a complete report forwarded June 23, 1971, and not attached herewith. Class rolls were used to derive the figures, eliminating duplications.

As will be noticed in Figure 2, GSE classes enrolled 306 graduate and non-degree students (the latter post-baccalaureate). The figure 306 includes graduate and non-degree students in A-V courses and Library Science courses, both listed under C&I and/or Library Science. The Chairman of the Department has been responsible for several years for staffing courses in those areas, scheduling, etc. No attempt was made to total the number of formally recognized graduate students

## FIGURE 2

## (General Secondary Education)

(Body count, no duplicates, enrollments of graduate and non-degree students in courses carrying graduate credit)

1. Total number of graduate students currently enrolled (Spring, 1971) in your unit: 306
2. Number of graduate students whom you expect to continue in fall semester: 240
3. Total number of new graduate students you intend to take in for fall semester: 30
4. Maximum number of graduate students you expect for fall semester (i.e., sum of 2 & 3) 270
5. During fall semester, number of FTE faculty members available and qualified
  - a) to supervise master's theses: 12 (Plan II followed primarily)
  - b) to supervise doctoral dissertations (there is no doctoral major in Business Education or Industrial Education) 11 (Plus 1 Business Education and 1 Industrial Education)
6. During fall semester, how many students do you expect to be working on
  - a) Master's theses: 0 (Plan II followed primarily)
  - b) Doctoral dissertations: 12 (Includes students with "strong minors" in Business Education and Industrial Education)

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and the total number of non-degree students in all courses being called herein GSE graduate courses.

The figure 240 for expected repeat enrollment for GSE Fall 71 assumes 60 students terminating annually (graduate or non-degree and on formal or or somewhat formal certification and/or degree plans). Total  $240 + 60$  approximates the 306 figure.

The figure 30 for "refill" (and new graduate students and non-degree students) in GSE assumes a 30-30 new enrollment semesters I and II for the 71-72 school year, students on formal or somewhat formal certification and/or degree plans.

The figure 270 was derived by adding 240 and 30 mentioned before. The so-called maximum number of graduate and non-degree students expected for Fall 70 (270) is unrealistic unless one thinks in terms of formal or somewhat formal certification and/or degree plans to be pursued by such students. Obviously one hundred and fifty new students could "show up" one semester or another for a particularly valuable A-V offering, or a valuable Adult Education workshop (GSE) and negate the validity of any prediction at this time, unless deliberate effort was made to curb in-service enrollments for teachers. Teachers, incidentally, are often non-degree students enrolling for an occasional 3-credit, valuable, in-service experience and beside them are non-degree students in a formal or somewhat formal certification plan over several semesters, and beside them are formally recognized graduate students, all profiting from the same hypothetical, 3-credit experience.

The figure 12 (faculty) to supervise master's theses for GSE represents the GSE group identified earlier. However, very seldom does a master's candidate opt for Plan I, Thesis. Eleven of the twelve GSE faculty possess the doctorate and are deemed qualified to supervise dissertation work. One faculty member each in Business Education and Industrial Education possess the doctorate each and since there is no doctoral major in Business Education or Industrial Education, those two faculty are counted as GSE at this point for supervision of dissertations, total 13.

The figure 12 (students) represents a "name count" of students writing or apt to be writing dissertations in the semester immediately ahead. They are posted by name for GSE on a master list, Doctoral Students, maintained in the Department Chairman's office. They are listed under respective faculty apt to be in charge of each student. There are 23 such students. According to formula, that is 46 credit hours or almost four full faculty member loads, GSE.

Figure 3 attached indicates the number of graduate students admitted to graduate programs in GSE over the past three years and for SS '71 (to July 1). The figures were issued by the Graduate School. Presumably the figure for each semester labelled "Education Doctorate" includes some doctoral level students for whom GSE faculty have responsibility. "Education Doctorate", of late, has come to mean "college level operation". Presumably the figures for "Secondary Education" are primarily master's level figures.

The figures in Figure 4, following the page for Figure 3, give a much sharper and clearer picture of departmental count of current graduate students in GSE.

Figure 4 gives number of students GSE personnel identify as graduate students in GSE programs. Note that the average figure or the departmental count figure are both below the figures mentioned earlier for GSE -- 306 or 270, enrollments for II 70-71 and contemplated total enrollment of formally programmed non-degree or graduate students.

#### f. The Courses

Not all of the courses listed under the headings of Secondary Education are taught by GSE faculty identified previously. Personnel other than GSE faculty teach methods courses in languages, biology, speech, drama, journalism, and at least one section of an English methods course, plus the math methods course and math institute courses (there are no science or language institute courses at present).

Courses for undergraduates, taught by GSE faculty, listed in the catalog and carried in one or the other or all printed schedules three times a year, are: S. E. 351, 361, \*429, 430, 431, 432, 436, \*442, \*443, \*447, 461, 462, 463, 497, total 14 courses. Four of the foregoing carry graduate credit, 429, 442, 443, and 447. 351 is "Problems". 461-62-63 is student teaching (6 credits) sometimes combined with 361 (6 credits) and/or a special methods course (e.g., a "block" of 9-12-

FIGURE 3

Sem. I, 1968-69	Secondary Education	* 74
Sem. II, 1968-69	Secondary Education	* 74
	Education Doctorate	109
Sem. I, 1969-70	Secondary Education	* 106
	Education Doctorate	110
Sem. II, 1969-70	Secondary Education	* 109
	Education Doctorate	123
Sem. I, 1970-71	Secondary Education	* 154
	Education Doctorate	121
Sem. II, 1970-71	Secondary Education	* 185
	Education Doctorate	174
Summer Session, 1971	Secondary Education	* 27
Sem. I, 1971-72	Secondary Education	* <u>5</u>
Total		* 734

Average yearly 245 approximately



FIGURE 4

Master's Degree (currently enrolled as of Semester II 1970-71)

Joint master's with Ed. Adm.	28
MATE (English)	25
MATM (Mathematics)	64
MATS (Science)	16
English, Comm. Arts, Reading	16
Social Science	17
Sociology	2
Spanish	3
Library Science	4
TESOL	8
Diversified	7
Miscellaneous	11

Doctoral Students in C&I (as of Semester II 1970-71)	30
--	----

No active Ed. Specialists	
---------------------------	--

Total currently	231
-----------------	-----

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15 credits in one semester).

Courses for graduates, taught by GSE faculty, listed in the catalog, and carried in printed schedules three times a year are: S. E. 500, 501, 502, 503, 504, 508, 510, 520, 521, 527, 528, 529, 530, 540, 546, 549, 550, 551, 552, 590, 599, 601, 610, 611, and 699. Total 25 courses, plus four shared with undergraduates mentioned previously. 551-552 are problems. 599 is selcomd signed for by a student (thesis). 610-611 are internships of various kinds. 527 and 528 have been taught by professors of English. 510 is sometimes taught by professors of Business Education or Industrial Education.

In summary, the GSE faculty over the course of two semesters and a summer session is apt to deal with six on-campus undergraduate courses plus four student teaching and/or combined classroom-field work courses, plus workshops (on-campus type or varied), problems, honors, and topics. The GSE faculty over the course of the same two semesters and a summer session is apt to deal with sixteen on-campus graduate courses plus two field work courses, and workshops (on-campus and varied), plus thesis, problems, topics, and dissertation. 508 may be viewed as a seventeenth course or as a workshop type endeavor. In practice 351, 361, 429, 432, 442, 447, 461-62-63, 497, 551, 552, 599, 610, 611, and 699 are offered as constants in both semesters and summer session. The remainder, undergraduate and graduate, are alternated.

## g. C &amp; I

Customarily Sec. Ed. 500 and 601 are cross-listed under Curriculum and Instruction and Secondary Education. \*429 and 529 are listed under C & I (stock numbers "across departments" for workshops) as well as Secondary Education carrying those numbers under its heading. 610 and 611 are listed under C & I as is 547. The former are listed under Secondary Education heading as well, although 547 is not. When the chairman of the Department of Secondary Education schedules courses for Secondary Education and cross-lists under C & I or schedules courses for C & I (e.g., 541), he tallies student credit hours to the Department of Secondary Education (and GSE). The chairman of the Department of Elementary Education does the same for elementary education courses under his jurisdiction when he schedules his faculty. All A-V courses are cross-listed under C & I and Library Science. All Library Science courses are listed under Library Science with a few cross-listed under C & I, and those usually under the jurisdiction of the chairman of Elementary Education. Except for Children's Literature, Elementary School Library, and special A-V production sections (for Elementary Education majors), the chairman of the Department of Secondary Education tallies student credit hours to the Department of Secondary Education (and GSE). The chairmen of the other departments, presumably, follow the same guidelines when occasional offerings (and personnel) under their control are cross-listed under C & I (e.g., Ed. Ad., Supervision of Instruction, Adult Education, and "stock courses", 429, 529, 610, 611 used by various departments plus an occasional HPER offering).

#### h. Internal-External Evaluation of the Program

April 28 - May 1, 1969, the College of Education was evaluated by the National Council for the Accreditation of Teacher Education. Comments regarding the Department of Secondary Education were favorable generally. There was concern expressed that the department might not have as much control of its program as it ought to have, having dependency upon the College of Arts and Sciences, especially for content courses and with little input into those from General Secondary Education personnel. Additionally, a number of methods courses were noted by NCATE as not being under General Secondary Education's control. The cooperative relationships existing between A&S personnel and General Secondary Education personnel were mentioned as a strength in the total program. Composite majors under the control of General Secondary Education were described as "well planned". Faculty was credited as being good in degrees held, General Secondary Education especially. NCATE comment was that there were no clear guidelines for end goals (unstated) to be reached by GSE in its graduate programs.

At least four General Secondary Education faculty participated voluntarily in student evaluation of faculty, Spring 71. With respect to "Agree" and "Agree Strongly" responses of students, the four faculty members fared well in the student evaluations.

Spring 71 Peter Prouse was given quarter time to conduct an evaluation of the departmental graduate programs. Fall 71, faculty

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expect to receive and discuss his report.

Each semester and summer session student teachers have been asked to evaluate their total programs as well as student teaching experience. Suggestions received have been used to modify programs for subsequent students.

#### i. Credit Hours

Credit hours for General Secondary Education are noted in Figure 5.

The figures for the Secondary Education Department do not include enrollments for Business Education and Industrial Education. As will be noted, there is the suggestion that a drop in credit hours occurred for GSE 68-69 to 69-70, fall, spring, summer session in each case. Initial credit hours for GSE for summer session 71, which should be added to the total of 5643 for 70-71, are 1056, making a total of 6699 at this point for the year 70-71. The Semester II 70-71 figure is in error, as will be noted below. The Semester I 70-71 figure is equally suspect.

The pattern of credit hours for Library Science has varied over a three-year period but in general enrollments and credit hours have tended upward. A-v enrollments definitely are on the increase over a three-year period.

"Errors" in official credit hours for GSE mentioned above are represented in the following examples: The figure 1301 for summer session 69 is an official figure credited to Secondary Education (GSE).

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Actually the figure should have been 1390, as tallied by the chairman, drawing credit hours from C & I to which GSE was entitled. Similarly, for Semester II 70-71, the figure is 2870 officially. The chairman's tally indicates 2946. Thirteen students, C & I 500, 39 credit hours, ought to have been credited to Ivins along with his credit for 30 students, S. E. 500, 90 credit hours. In similar fashion, Semester I 70-71 figure is suspect in Figure 5.

In summary, while there is a decline in credit hours for GSE over a three-year period, it is not as sharp as figures in Figure 5 would suggest. It is not known why admits continue relatively high in GSE while credit hours decline somewhat.

j. Follow-up of Graduates

There is no systematic follow-up of graduates from General Secondary Education programs.

FIGURE 5

Secondary Education

	<u>Courses</u>	<u>Sections</u>	<u>Students</u>	<u>Student Credit Hours</u>
[ ] = Add General Studies				
1968-69 Sem. I	19 [1]	41 [1]	736 [18]	2893 [54]
Sem. II	24 [1]	41 [1]	934 [14]	3657 [42]
SS	16	26	391	1301
			Total	7851 + 96 7947
-----				
1969-70 Sem. I	20 [1] 1	44 [1] 1	599 [36] 28	2880 [108] 84 + (no class master)
Sem. II	23 [1]	51 [1]	701 [31]	3403 [93]
SS	16	25	244	892
			Total	7259 + 201 7460
-----				
1970-71 Sem. I	23	42	584	2773
Sem. II	20	39	597	2870
			Total	5643 (not counting SS 71)

Library Science

1968-69 Sem. I	3	3	83	249
Sem. II	3	3	92	276
SS	2	2	31	93
			Total	618

	<u>Courses</u>	<u>Sections</u>	<u>Students</u>	<u>Student Credit Hours</u>
<u>Library Science (continued)</u>				
1969-70 Sem. I	3	3	64	192
Sem. II	6	8	69	202
SS	2	2	35	<u>105</u>
			Total	499
-----				
1970-71 Sem. I	6	9	133	392
Sem. II	7	10	110	<u>316</u>
			Total	
=====				
<u>Curriculum and Instruction</u>				
1968-69 Sem. I	12	12	177	531
Sem. II	9	11	179	537
SS	7	7	151	453
-----				
1969-70 Sem. I	14	15	278	834
Sem. II	13	17	388	1160
SS	8	11	279	782
-----				
1970-71 Sem. I	16	25	412	1264
Sem. II	16	32	565	1649
=====				



BUSINESS EDUCATION PROGRAM  
PROGRAM REPORT, 1970-71

PHYSICAL FACILITIES PLANNING

A proposal for future physical facilities for the Business Education Program was presented in a meeting with Dean Lawrence on November 24, 1970. The analysis of Business Education Program's space needs was developed with the assistance of Dr. Richard Tonigan. A copy of this plan is attached to this report.

Business Education facilities continue to be a problem. After a number of formal and informal meetings, 70-71, the decision was made that the Business Education secondary program would continue to use classroom space in its present location, Rooms 112 and 110 in the School of Business and Administrative Sciences for 71-72.

A decision to move the Business Education faculty offices from their present location in the School of Business and Administrative Sciences resulted in the selection of space in the College of Education's faculty building for the location of the offices of Business Education faculty members for the 1971-72 school year.

BUSINESS EDUCATION PROGRAM REPORT

A complete Business Education Program report was presented in Report No. 2, dated December 18, 1970. This report covered the following topics:

Historical Background  
 Justification for New Faculty  
 Need for New Physical Facilities  
 Business Teacher Education Program  
 Student Teachers  
 Graduate Students  
 Phasing-Out of B&AS Courses  
 Secretarial Program  
 University College  
 Cultural Diversity  
 Vocational Business Education  
 Vocational Office Internship

### CULTURAL DIVERSITY

Through the present Business Education professional program and especially through working with cooperative teachers in the business teacher/student teacher program, an attempt has been made to publicize our program for the purpose of encouraging Spanish-American young people to consider vocational education as a major field and to encourage better students to consider business teacher education as their vocational choice.

### BUSINESS EDUCATION STUDENTS

The March 26, 1971, report to Dr. Sherman Smith, Vice President for Administration and Development, UNM, provided an analysis of the Business Education clientele, which is summarized below.

Business Education graduate students	43
Business Education majors - College of Education	103
Business Education majors - University College	38
Two-year secretarial students	55
Other students enrolled in secretarial courses	57
Business Education minors and misc. students	22
Vocational Office education students	<u>26</u>
Total	344

### SCREENING PROCEDURES

The Business Education Program maintains a higher standard on the spelling quiz than does the College of Education. Also, in the screening process we look at the grade point average earned in our own undergraduate Business Education classes. These two points would, perhaps, be above College of Education requirements.

### CURRICULUM PROBLEMS

The phasing-out of B&AS courses will have a direct detrimental effect not only on the undergraduate Business Education Program but also on the Master's Degree program in Business Education. It is necessary to point out that B&AS 289 [Statistical Analysis] is the first such course to be phased out -- Fall, 1971. Three or four other B&AS courses will be phased out shortly thereafter. The question arises as to who will be responsible for teaching these required courses.

### NEW COURSES

Vocational Office Laboratory, Bus. Ed. 350, was added to the Business Education curriculum Spring 71. This course was designed to provide students with an opportunity to work in approved office work stations, enabling them to experience and solve on-the-job business problems as related to secretarial skills and practice.

Methods and Materials in Vocational Office Education, Bus. Ed. 429, is one of the first courses approved by the State Department of Vocational Education for vocational certification of business teach-

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ers. Considerable time, effort, and coordination was necessary to make this course a reality.

#### STUDENT TEACHERS

The Business Education Program developed 30 teachers during the 1970-71 school year. Twenty-six were developed under the Professional Block program, and four completed their student teaching under the old plan.

Student teachers were placed in all nine of the Albuquerque public high schools as well as in Los Lunas High School and the Albuquerque Technical Vocational Institute. As part of a continuous effort to improve the Professional Block program and the quality of participating student teachers, research is being conducted to evaluate current developments in teaching methods and materials.

The Business Education Program sponsored a dinner at the La Hacienda restaurant on Sunday, May 23, 1971, honoring the business student teachers of the 1970-71 school year.

#### VOCATIONAL EDUCATION

Considerable planning and organization with the assistance of Dr. William Runge and the State Vocational Education Office took place in the implementation of a new course entitled Methods and Materials in Vocational Office Education, Bus. Ed. 429.

Mr. Frank Gilmer, Consultant in Business Education for the APS system, served as a team teacher with Dr. Al Giordano.

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Other participants in this program included Mr. Robert Gordon, State Supervisor for Office Education, and Dr. Pat Loyd, Director of Business Education for the Southwest Indian Polytechnic Institute.

There is a need for development of additional vocational education courses. A special effort will continue, therefore, to work with the State Department of Vocational Education and University officials in order to achieve this objective.

Business Education Program was authorized to hire an additional faculty member to fill a new half-time position for the 1971-72 school year. This person will assist with the Professional Business Education Block program as well as graduate courses in business education.

INDUSTRIAL EDUCATION  
PROGRAM REPORT, 1970-71

The staff for the school year of 1970-71 included four full-time staff members, one graduate assistant, two teaching assistants, and one part-time community college instructor.

Richard Warner was granted leave to participate in the T.T.T. program (Training Teachers of Teachers) at the University of Miami (Florida) from September, 1970, to June, 1971. He will return to teach summer session 1971 classes.

Paul Stewart of East Texas State was employed on a temporary contract to replace Dr. Warner while he was on leave.

Mr. Warner will resign his position effective at the close of summer session 1971.

Milton Garrett, a graduate of Texas A&M with an Ed. D. degree in Industrial Education, has accepted the position vacated by Richard Warner. He comes to us with exceptional recommendations. He has taught on both the secondary and college levels. While on campus for his interview, he was also highly recommended by various persons. Mr. Garrett received an exceptional rating by a class of junior and senior Industrial Education students to whom he had presented a lesson.

SCREENING

Attached shows the screening results for the last three years. See Figure 1.

FIGURE 1

## INDUSTRIAL EDUCATION SCREENING

SESSION	ADMITTED	NOT ADMITTED	TOTAL APPLIED
SS 1968	1	1	2
Fall 68-69	11	15	26
Spring 68-69	8	6	14
SS 1969	4	3	7
Fall 69-70	11	4	15
Spring 69-70	7	3	10
SS 1970	5	0	5
Fall 70-71	12	6	18
Spring 70-71	16	1	17

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### CLASS OFFERINGS

The number of class offerings has increased from 36 to 45 over the last three years. Attached shows the class offerings and enrollments for the last six years. See Fig. 2. It should be noted that the class sizes averaged near or over maximum capacity in most cases, according to lab capacity and university averages.

### BUDGET

The budget for the Industrial Education program has only been increased \$300 over the last three years. A very inadequate amount considering student credit hours have increased from 1566 student credit hours in 1968 to 2055 in 1970. The present budget only provides for bare expenses with very little monies available for the purchase of equipment. Additional equipment is needed to replace obsolete machinery and to upgrade present equipment and contemplated program revision. Consideration should be given to the expanding needs in the schools for vocational technical teachers who need certification, and additional studies.

### SPACE NEEDS

Additional space is needed to provide the necessary safe operating space for our present program. Also, space now available is used by various different activities, which means re-arranging equipment and space for each such class. Needed expansion of present labs is a must if we are to meet the demands of our educational and



FIGURE 2

INDUSTRIAL EDUCATION

	<u>Course Offerings</u>	<u>Sec-tions</u>	<u>Students</u>	<u>Total Student Credit Hrs</u>
1968-69 Sem. I	18	19	335	876
Sem. II	16	17	240	690
SS	7	7	48	133
-----				
1969-70 Sem. I	17	18	277	719
Sem. II	16	16	267	779
SS	5	5	65	174
-----				
1970-71 Sem. I	20	23	336	948
Sem. II	19	22	373	1107
-----				

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technical-vocational in the way of course offerings. It would also make Classroom 201 available for regular classes.

The extension of the balcony in the Industrial Education laboratory has been requested for the last two years. This remodeling would amount to approximately \$120,000.

In the current year there are 141 students enrolled in the undergraduate program. The breakdown on these is as follows:

106 - Anglo surnames

35 - Spanish surnames

In the graduate program there are 40 students in progress toward the master's degree; of these 29 have Anglo surnames and 11 have Spanish surnames. Due to the identification by surnames, it is difficult to identify Indian students, and in some cases Spanish, so the above-quoted figures may vary. It is known that we have had 7 Indian students graduate in the past years.

#### SURVEY OF GRADUATES

A survey of graduates was made for periods as indicated below:

##### Employment of Graduates 1948 - 1965 (total 129)

Teaching in Albuquerque	32	)	
Teaching in New Mexico	6	)	47% of total
Teaching in other states	21	)	
In industry or self employment	47		
Unknown	17		
Military	6		

Employment of Graduates 1966 - 1970

Teaching in Albuquerque	21 teachers	30%
Teaching in New Mexico, outside of Albuquerque	10 teachers	14%
Teaching outside of New Mexico	8 teachers	11%
In armed forces	10	14%
In industry	14	20%
Attending UNM Law School	1	1%
Unknown	<u>7</u>	<u>10%</u>
	71	100%
Total number known to be in teaching	39	55%

The above survey shows an increase from 47% (1956-65) to 55% (1966-70) who are in the teaching profession.

GRADUATES

There are 17 graduating this year with a B. S. degree and 5 with an M. A. T. in Industrial Subjects.

In addition to the degree programs, the industrial education area offers four evening community classes each semester. Class break-down shows a wide variety of social classes, ranging from laborers to M. D.'s and Ph. D.'s.

The area was also responsible in certifying 17 apprentices of the Carpenters' Union in the area of welding.

In Fig. 3 it should be noted that, with few exceptions, class offerings carried maximum enrollments. These maximums, in most

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cases, are 20 students because the various areas of work in lab classes provided only 20 work stations.

The need for courses to satisfy the areas of the vocational-technical is becoming more apparent. If these needs are to be met, additional staff, increased facilities and more funding will be necessary.

# Class Enrollment - Industrial Education

Figure 3

Fall 65

Spring 71

630

## Undergraduate

se	Title	Sem. Hrs.	Times Offered	Class Size
101	Shop Computations	3	7	29
105	Introduction to Industrial Ed.	2	6	34
110	Machine Woodworking	3	16	21**
111	Drafting I	2	4	27*
112	Drafting II	3	5	31*
120	Machine Metalworking	3	14	20**
225	Design in Industrial Arts	2	8	22**
230	Power Mechanics	3	11	18**
261	Drafting III	2	4	22*
262	Drafting IV	3	5	24*
265	Finishing and Maintenance	3	6	18**
280	Electricity and Electronics I	3	7	20**
285	Welding	3	18	19**
315	Pattern Making and Foundry	3	6	17**
335	Intermediate Power Mechanics	3	6	15**
350	Cabinet Making	3	6	20**
351	Problems	1-3	11	2
365	Advanced Machine Metalworking	3	7	21**
380	Electricity and Electronics II	3	4	21
386	Metal Fabrication	3	4	20**
429	Workshop in Industrial Education	1-3	4	18**
433	Teaching of Industrial Subjects	3	5	20
461,2,3	Student Teaching	6-9	6	19
466	Theory & Organization of I.E.	3	4	22
470	Carpentry	3	8	17**

No \* = Lecture Classes

\* = Class enrollment limited to 30 students

\*\* = Class enrollment limited to 20 students

## Graduate Classes

Course No.	Title	Sem. Hrs.	Times Offered	Class Size
E. 490	Measurement and Evaluation Tech.	3	2	12
E. 492	Instructional Analysis	3	3	9
E. 505	Devel., Sel., Use & Organ. of Instr. Mat	3	3	11
E. 510	Developments in Ind. & Voc. Ed.	3	5	23
E. 511	Laboratory Planning & Design	3	3	11
E. 515	Industrial Accident Prevention	3	4	10
E. 551	Problems	1-3	6	2

## PART III

## Supplements to Biographical Records

1. Advanced study:

Mr. Cunico completed 15 quarter hours in the summer of 1970 toward his Ed. D. in Industrial Education at Utah State University.

2. Sabbaticals, leaves of absence, travel, etc.

Mr. Doxtator was on sabbatical Semester II, 1970-71.

Miss Heemstra was on leave for the academic year 1970-71 to continue work toward completion of her doctorate at Michigan State University.

Mr. Runge made a one-month trip to Guatemala, Panama, Ecuador, and Colombia, summer 1970.

Mr. Tweenen taught a leadership conference in science education at the University of Colorado and a 1-week workshop for Indian School teachers in Oklahoma.

Mr. Warner was on leave academic year 1970-71 to participate in a Triple T project in Miami, Florida.

Mr. Crawford continued his data gathering on "International Education" through school visits to Belgium, Holland, Denmark, Sweden, Norway, and Germany, July 31 to September 1970.

Mr. Prigmore traveled in USSR, Scandinavia, Great Britain during the summer of 1970.

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3. New scholastic honors:

Mr. Crawford was listed in the 12th edition, 1970-71, of Who's Who in the West.

4. Publications:

Mr. Crawford is submitting to a publisher a manuscript entitled "The Wilderness of International Education in the Secondary School".

Mr. Giordano had published the first two of his textbooks in the Office Occupational Series.

Mr. Howard's book on The Junior High and Middle School: Issues and Practices (in collaboration with George Stoumbis) was published in 1970. He also had two magazine articles published: "The Junior High School - A Four State Survey", Clearing House, 45:1, Sept., 1970; and "A Question of Values", Educational Leadership, 28:1, Dec. 1970.

Mr. Prigmore had an article published in the 1970 Encyclopaedia Britannica entitled "A Happening in Humanities".

Mr. Prouse continued work as senior author of three English textbooks for grades 7,8 and 9 to be published by McCormick-Mathers Publishing Company.

Mr. Runge revised the Handbook for Secondary Student Teaching, 11th edition, 55 mimeographed pages.



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Mr. White continued work, as co-author with Mr. Prouse, of the New Junior High English Series, Grades 7,8,9.

5. Other research projects or creative work in progress:

Mr. Cunico completed a research project for the State Department of Education, Elementary School Industrial Arts in New Mexico: Its Implications.

Mr. Howard completed with his son, John, a work for the North Central Association Quarterly (in press) entitled "Prosperity and a Ph. D. - By Mail".

Mr. Ivins, in conjunction with a group of graduate students in Sec. Ed. 501, compiled "An Evaluation of the Effectiveness of High Schools in Teaching Thought Processes".

Mr. Nesbitt completed a revision of the Industrial Education undergraduate curriculum.

Mr. Prouse continued for third year as director of the APSCOE Project in Secondary English, jointly sponsored by the Albuquerque Public Schools and UNM.

Dr. Giordano conducted research directed towards the establishment of a work-study program for business teachers among the business and industrial community of metropolitan Albuquerque.

Mrs. Reva is completing her sabbatical project, Office Education for Latin American Secretaries.

Mr. Ronan developed an experimental program in mathematics for the junior high school. It was tested at Kennedy Junior High in the spring of 1971.

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Mrs. Sampley coordinated and developed a program in Vocational Office Laboratory Experiences begun in the spring semester of 1971.

Dr. Tweeten was director of an NSF Science Institute, \$15,000 grant, duration one year.

Mr. White had the following manuscripts in progress:  
"Teaching Literature to Adolescents"; "Teaching Communication Arts to Adolescents"; "Teaching Reading to Adolescents"; "Developing Language Arts Programs for Culturally Diverse Adolescents". He received a \$500 grant from the New Mexico Department of Vocational Education for "Developing an Informal Reading Inventory for Adult Basic Education", February to June 30, 1971.

6. Activities in learned and professional societies:

Mr. Crawford delivered a paper on "Efforts for a Positive Look at the Difficulties of Membership of Small High Schools in the North Central Association" at Tulsa, Oklahoma, October 1970.

Mr. Doxtator was fall program director for the New Mexico Council for Social Studies.

Mr. Giordano conducted a Business Machines Workshop at the New Mexico State Teachers Association convention October 1970.

Mr. Hirshfield attended the Student NEA State Conference in Roswell.

Mr. Howard was associate chairman of the State North Cen-

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tral Association Committee and a member of the state board of the New Mexico Secondary School Principals Association.

Mr. Doxtator reviewed a manuscript for Wm. Brown Company. He was also an NCA team member at Las Cruces High School re-evaluation.

Mr. Esparza was a panelist at the state meeting of the North Central Association of High Schools in New Mexico and an evaluation team member on an NCA evaluation visitation. As a member of the UNM/Colombia team, he participated in conducting an in-service training workshop for the faculty of the project school at Bucaramanga, Colombia. He also served as consultant on educational supervision at a bi-national conference and served as a consultant in educational administration conference sponsored by Colombia and Venezuela.

Mr. Giordano was a consultant in service for the Teacher Education Workshop for Albuquerque TVI October 1970.

Mrs. Greer was a consultant for the Pueblo Head Start Program and workshop director for the same program.

Mr. Hirshfield was state chairman of the National Council of English Teachers Award for Writing. He was also a guest speaker at the Unitarian Church youth group.

Mr. Howard gave several talks to schools in Albuquerque and was consultant at several schools in the state.

Mr. Kline was visiting lecturer at the Puerto Rico Medical School and at the Library Institute at New Mexico State University, Las Cruces. He also spoke in Farmington on interaction analysis.

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Mr. Prigmore conducted workshops in Georgia, Texas, Colorado, Utah and West Point.

Mr. Prouse conducted workshops on the teaching of English for teachers at the Springfield, Illinois, public schools.

Mrs. Reva gave several talks to various local groups. She has agreed to return to Latin America during 1971 summer to give seminars in office management to employed people.

Mr. Ivins was the sponsor for Phi Delta Kappa.

Mr. Kline was president of the New Mexico AV/LS Roundtable, vice president of the NM AV Association; he attended the Mountain Plains Media Leadership Symposium in Loveland, Colorado, and also the National Association of Educational Broadcasters, in Washington.

Mr. Prigmore was chairman of the Commission on Supervision of NCTE and president of Division II of NAHE. He was also elected national president for 1971.

Mr. Runge attended vocational education meetings in New York City, Tucson, New Orleans. He is a member of the New Mexico Vocational Advisory Council and New Mexico Research Unit Advisory Council.

Mrs. Sampley is a member of National Business Education Association, Mountain Plains Business Education Association, and New Mexico Business Education Association. She attended the annual New Mexico Business Education Conference fall 1970.

Mr. Tweenen was a member of the financial and membership committees of the Association of Science and Math Teachers; chairman

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of the Southern Rockies Region of AETS; presenter SW Region NSTA. He participated in AAAS-NASDTEC Committee for Teacher Education in Science; was chairman of the election committee of NABT, participant and presenter at NABT Convention and co-director of Science and Humanities Symposium.

Mr. White was program chairman of the New Mexico TESOL and Bilingual Association.

7. Other professional activities:

Mr. Brown was a member of the Wood Technology Advisory Committee for APS and also state coordinator for the "Man/Society/Technology Forum" of the Rocky Mountain Region.

Mr. Cunico was director of commercial exhibits of the New Mexico Industrial Arts Association's spring conference.

Mr. Runge evaluated private vocational schools in cosmetology and business. He has helped develop new secondary education projects in reading, social studies, vocational education.

Mr. Tweeten was science consultant to the Bureau of Indian Affairs, Albuquerque Public Schools, and several private schools.

Mr. White was speaker and consultant in reading to the Adult Basic Education workshop in July 1970. He was also consultant in developing the Title III Reading Project with the North Area Office of APS and also coordinator of basic English program for UNM physical plant workers.

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8. Non-teaching University service:

Mr. Brown was a member of the COE Vocational Education Committee and a member of Secondary Education Sabbatical, Promotion and Tenure Committee.

Mr. Crawford was State Chairman of the New Mexico North Central Association and a member of the University Committee on Scholarships, Prices and High School Relations.

Mr. Cunico was a member of Secondary Education Administrative and Policy Committee.

Mr. Doxtator was sponsor of the Students for Responsible Action, SRA.

Mr. Esparza was a participant in a University-sponsored conference for the Consortium of Border States Junior Colleges.

Mr. Giordano attended a vocational education meeting with the State Department of Vocational Education.

Mr. Hirshfield was on KUNM Radio Board, COE Graduate Curriculum Committee; Petitions and Waivers Committee.

Mr. Howard was a member of the COE Policy Committee and director of the Hoover Mid-School Project.

Mr. Ivins was a speaker at the Regional Student Council Meeting in December 1970; an evaluator (with Dr. Elmo Stevenson), NCATE Accreditation final revisit, University of Nevada College of Education. He was a member of the COE Policy Committee; member of Committee on University Governance; Academic Freedom and Tenure Committee; Ad Hoc Committee of Policy Committee on Regent's Interim Pol-

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icy, UNM-COE Cultural Diversity Task Force.

Mr. Nesbitt was chairman of the University Safety Committee and a member of Secondary Education Salary Committee.

Mr. Prouse was chairman of the University Faculty Policy Committee; member of the University FPC Subcommittee on the Budget; member of the University FPC Ad Hoc Committee on Regents' Statement of Policy; gave several talks on campus; participated in several UNM conferences; served for eighth time as Faculty Marshal at Commencement.

Mrs. Reva was co-advisor of Phi Beta Lambda.

Mr. Runge is chairman of the Continuing Education Committee and was on several committees in Secondary Education, College of Education and joint committees with APS and the State Department of Education. He has continued to promote vocational-technical education activities.

Mrs. Sampley is a member of the College of Education Scholarship Committee; College of Education Learning Materials Center Committee; co-sponsor of Phi Beta Lambda.

Mr. Tweenen was on the Secondary Education Administrative and Policy Committee; Popejoy Visiting Professor Committee; University Environmental Policy Committee; and chairman-elect of Undergraduate Curriculum Committee.

Mr. White was chairman of Secondary Education Administrative and Policy Committee; he was a member of COE Manzanita Center Committee; UNM Student Affairs Committee; coordinator of the MAT of English program; coordinator of Secondary Education programs in TESOL and Reading; member of UNM Linguistics and Language Pedagogy Coordinating Committee;

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COE Adult Basic Education Planning Committee and COE PPS Specialist Project.

9. Public Service:

Mr. Brown was Marshal Emeritus of Ballut Abyad Temple.

Mr. Hirshfield was a member of the Caravan Club which provides emergency radio service in community. He also wrote for "In-House Organ" of this organization.

Mr. Kline was audio consultant at Indian Pow-Wow and consultant for equipment, Model Cities.

Mr. Nesbitt was manager of Altamont Little League baseball.

Mr. Prouse completed four-year term as member of the Board of Trustees of International Folk Art Foundation, Santa Fe.

Mr. Runge was a member of the Albuquerque Sales and Marketing Executives Club.

Mr. White was committee chairman on Albuquerque Jewish Welfare Board and faculty advisor of Jewish Student Union/Hillel.

10. Personal information

Mrs. Reva's husband passed away in August 1970.

Mr. Ronan married in August 1970.



Description By End of:  
SY 1970-71 0-3 Years

Typing	1,000	
Shorthand	1,000	
Lecture/Seminar	1,000	
Voc. Office		
Simulation	1,500	
Distributive Ed.		1,400
Special Projects		600
Graduate Assistants	200	
Professor's Offices	600	150
Semi-Private Offices	200	200
Secretarial/Clerical	400	
Departmental Storage	300	
Resource Center	800	
Independent Student		
Study Stations	600	
Subtotals:	<u>7,600</u>	<u>2,350</u>
General Use:	<u>19,000</u>	<u>5,875</u>
Storage, Circulation, Public Use, etc.; 40% of total assigned space)		
Total:	<u>26,600sq.ft.</u>	<u>8,225sq.ft.</u>

TYPING (42 S/S)	SHORTHAND (42 S/S)
(1,000)	(1,000)

LECTURE/ SEMINAR (42 S/S)
(1,000)

VOCATIONAL OFFICE SIMULATION (24 S/S)
(1,500)

DISTRIBUTIVE EDUCATION ( S/S)
(1,400)

SPECIAL PROJECTS
(600)

GRAD- UATE ASSIS.
(200)

SEMI- PRIVATE OFFICE (200)
PROFES- SOR'S OFFICE (150)
PROFES- SOR'S OFFICE (150)
PROFES- SOR'S OFFICE (150)
PROFES- SOR'S OFFICE (150)
PROFES- SOR'S OFFICE (150)
Semi- Private Office (200)

SECRETARIAL/CLERICAL (400)
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STORAGE (200)
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RESOURCE CENTER (300)
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○ Needed by end of school year 1970-71.

⊗ Needed in 0-3 Years

The Report of the Bureau of Educational Planning  
and Development, College of Education  
July 1, 1970 - June 30, 1971  
Richard F. Tonigan, Director

During its third year of operation, the Bureau conducted one of its most interesting studies--a social, economic and attitudinal analysis of the residents of the Gallup Urban Renewal Area. Thirteen graduate education students spent a week interviewing over five hundred residents in their homes, using survey instruments developed by some of the students and their professors. The results of the survey greatly influenced the land utilization proposals of an architectural-engineering firm. Copies of the study\*, as are all other Bureau studies, were placed in the University library, and abstracts of the study were disseminated to residents who had participated in the study. The sponsor of the \$10,000 study, the Gallup Urban Development Agency, was very pleased with the efforts of UNM.

Much of the 1970-71 year was spent preparing grant and contract proposals. Unfortunately, they did not result in much success--largely due to a considerable decline in the availability of federal funds for educational research and service activities. Many of these proposals remain on file with potential sponsors, and may still result in awards.

Another study, sponsored by the Vocational Division of the New Mexico State Department of Education, began just as the year was ending. This \$21,330 project is the first of a three-year effort by the Bureau to design and implement an informational system on vocational education. Two graduate students and Professor James A. Hale are cooperatively

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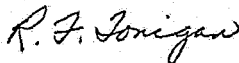
\*"A Report on a Socioeconomic and Attitudinal Survey Concerning Residents of the Zia Project Area in Gallup, New Mexico," Zia Project of the Gallup Urban Development Agency, N.M. R-13. Bureau of Educational Planning and Development. April 1971.

working with the State Department of Education's Research Coordinating Unit to establish a system for securing considerable data concerning vocational-technical education activities, including students, faculties, facilities, and money. Many other states are now engaged in similar endeavors; the New Mexico system is benefiting from its efforts through the assistance of the U. S. Office of Education Regional Laboratory for Vocational-Technical Education located on the Ohio State Campus at Columbus.

The coming year is likely to involve the Bureau quite heavily in Indian education. During the past few months, several Indian communities have asked the Bureau to explain how it might assist them, studying whether they should remain in the Bureau of Indian Affairs school system, or strike out in more independent directions. The movement towards self-determination seemly will continue to involve UNM to a continuously greater extent.

Public school bond referendums have been failing at an alarming rate, including school districts where no chance of failure was anticipated. A few signs are starting to indicate that this problem will begin to involve the Bureau in several school/community surveys.

Respectfully submitted,



Richard F. Tonigan  
Director, Bureau of Educational  
Planning and Development  
7/30/71

RFT:lc

Doc. No. 645

RECEIVED  
JUN 11 1971  
COLLEGE OF EDUCATION

BUSINESS EDUCATION PROGRAM  
ANNUAL REPORT, 1970-71

PHYSICAL FACILITIES PLANNING

A proposal for future physical facilities for the Business Education Program was presented in a meeting with Dean Lawrence on November 24, 1970. The analysis of Business Education Program's space needs was developed with the assistance of Dr. Richard Tonigan. A copy of this plan is attached to this report.

Business Education facilities continue to be a problem. After a number of formal and informal meetings, the decision was made that the Business Education secondary program would stay in its present location, Rooms 112 and 110 in the School of Business and Administrative Sciences.

A decision to move the Business Education faculty offices from their present location in the School of Business and Administrative Sciences resulted in the selection of space in the College of Education's faculty building for the location of the offices of Business Education faculty members for the 1971-72 school year.

BUSINESS EDUCATION PROGRAM REPORT

A complete Business Education Program report was presented in Report No. 2, dated December 18, 1970. This report covered the following topics:

- Historical Background
- Justification for New Faculty
- Need for New Physical Facilities
- Business Teacher Education Program
- Student Teachers
- Graduate Students
- Phasing-Out of B&AS Courses
- Secretarial Program
- University College
- Cultural Diversity
- Vocational Business Education
- Vocational Office Internship

## CULTURAL DIVERSITY

Through the present Business Education professional program and especially through working with cooperative teachers in the business teacher/student teacher program, an attempt has been made to publicize our program for the purpose of encouraging Spanish-American young people to consider vocational education as a major field and to encourage better students to consider business teacher education as their vocational choice.

## BUSINESS EDUCATION STUDENTS

The March 26, 1971, report to Dr. Sherman Smith, Vice President for Administration and Development, UNM, provided an analysis of the Business Education clientele, which is summarized below.

Business Education Graduate Students	43
Business Education Majors - College of Education	103
Business Education Majors - University College	38
Two-Year Secretarial Students	55
Other Students Enrolled in Secretarial Courses	57
Business Education Minors and Misc. Students	22
Vocational Office Education Students	<u>26</u>
Total	344

## CURRICULUM PROBLEMS

The phasing out of B&AS courses will have a direct detrimental effect not only on the undergraduate Business Education Program but also on the Master's Degree program in Business Education. It is necessary to point out that B&AS 289 (Statistical Analysis) is the first such course to be phased out--Fall, 1971. Three or four other B&AS courses will be phased out shortly thereafter. The question arises as to who will be responsible for teaching these required courses.

## NEW COURSES

Vocational Office Laboratory, Bus. Ed. 350, will be added to the Business Education curriculum this fall (1971). This course is designed to provide students with an opportunity to work in approved office work stations, enabling them to experience and solve on-the-job business problems as related to secretarial skills and practice.

## NEW COURSES (Cont'd)

Methods and Materials in Vocational Office Education, Bus. Ed. 429, is one of the first courses approved by the State Department of Vocational Education for vocational certification of business teachers. Considerable time, effort, and coordination was necessary to make this course a reality.

## STUDENT TEACHERS

The Business Education Program developed 30 teachers during the 1970-71 school year. Twenty-six were developed under the Professional Block program, and four completed their student teaching under the old plan.

Student teachers were placed in all nine of the Albuquerque public high schools as well as in Las Lunas High School and the Albuquerque Technical Vocational Institute. As part of a continuous effort to improve the Professional Block program and the quality of participating student teachers, research is being conducted to evaluate current developments in teaching methods and materials.

The Business Education Program sponsored a dinner at the La Hacienda restaurant on Sunday, May 23, 1971, honoring the business student teachers of the 1970-71 school year.

## VOCATIONAL EDUCATION

Considerable planning and organization with the assistance of Dr. William Runge and the State Vocational Education Office took place in the implementation of a new course entitled Methods and Materials in Vocational Office Education, Bus. Ed. 429.

Mr. Frank Gilmer, Consultant in Business Education for the APS system, served as a team teacher with Dr. Al Giordano.

Other participants in this program included Mr. Robert Gordon, State Supervisor for Office Education and Dr. Pat Loyd, Director of Business Education for the Southwest Indian Polytechnic Institute.

There is a need for development of additional vocational education courses. A special effort will continue, therefore, to work with the State Department of Vocational Education and University officials in order to achieve this objective.

## PROFESSIONAL NEWS

### Dr. Al Giordano

- Presented a workshop on the subject of Methods and Materials of Teaching Business Machine Calculation at the Annual New Mexico Business Education Conference, October 22, 1970, El Dorado High School, Albuquerque.
- Served as a consultant for an in-service workshop at the Albuquerque Technical Vocational Institute, October 23, 1970, where he presented materials as well as innovations in methods of teaching business education subjects to the entire office education faculty.
- Served as a catalyst on the program of the Annual Western Business Education Association Convention in San Francisco, April 6, 1971. The topic was "Solving Business Problems with Electronic Calculators."
- Served as academic advisor to 146 Business Education majors in the College of Education, UNM.
- Publications: The first two textbooks in the Office Occupational Series, edited by Al Giordano, were published by Prentice Hall (Englewood Cliffs, New Jersey). These were BASIC BUSINESS MACHINE CALCULATION, by Al Giordano (1970), and LEGAL SECRETARYSHIP, by Norma Davis Blackburn (1971).

### Professor Virginia Reva

- Actively participated in meetings throughout the year of the National Secretaries Association, Albuquerque Chapter, of which she is an honorary member.
- Presented three talks about her trip to Egypt, Israel, Cyprus, Lebanon, Turkey, and Greece during the summer of 1970.
- Administered Certified Professional Secretaries' examination at UNM on May 7 and 8, 1971, to women from various southwestern states. (UNM is the testing center for this area.)
- Co-sponsored with Mrs. Gayle Sampley several meetings and projects of Phi Beta Lambda, business education students' fraternity.
- Completed work for her Sabbatical Project. Sabbatical leave was taken during the spring semester of 1970. Although the Project is dormant at present (due to changes in Business Education facilities and other matters that need to be settled before Latin American business men and women can be brought here), the files are available in case circumstances allow the Project to proceed.

PROFESSIONAL NEWS (Cont'd)Mrs. Gayle Sampley

- Coordinated and developed with Dr. Al Giordano the pilot study for the Vocational Office Laboratory program, which was implemented during the spring semester 1971. A proposal to add this course to the undergraduate Business Education curriculum was presented to the Undergraduate Committee of the College of Education and was tentatively approved.
- Conducted a typewriting workshop on March 13, 1971, for secretaries in the New Mexico and Colorado Community Action Program, a part of the Indian Community Action Project.
- Co-sponsored with Professor Virginia Reva several meetings and projects of Phi Beta Lambda, business education students' fraternity.

Mrs. Helen McMichael

- Taught two courses in Beginning and Intermediate Shorthand and one in Intermediate Typewriting as a part-time employee in the Business Education Program.

Mr. Justin Baer

- Served as graduate assistant in the Business Education Program during the school year 1970-1971, teaching a course in Introduction to Data Processing and one in Shorthand Transcription.

Mr. Al Lucero

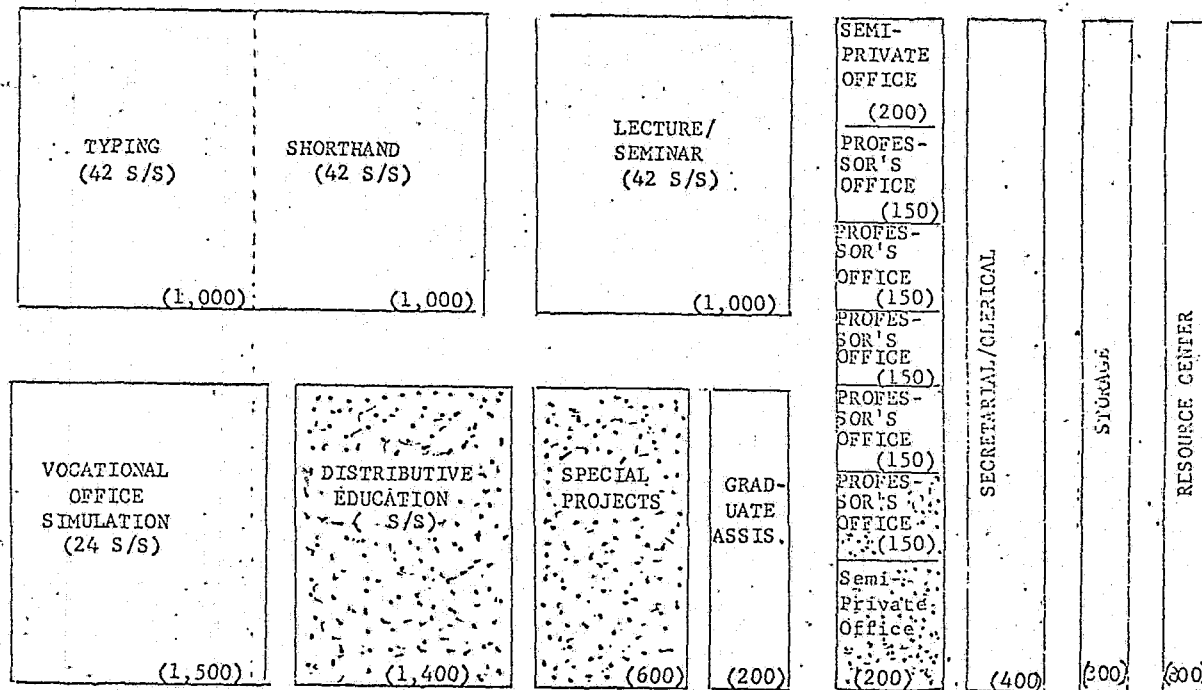
- Served as Special Assistant in the Business Education Program. He participated in the Professional Block program and also assisted in the supervision of the student teachers in this program.

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The Business Education Program was authorized to hire an additional faculty member to fill a new half-time position for the 1971-72 school year. This person will assist with the Professional Business Education Block program as well as graduate courses in business education.



Description	By End of SY 1970-71	0-3 Years
Typing	1,000	
Shorthand	1,000	
Lecture/Seminar	1,000	
Voc. Office		
Simulation	1,500	
Distributive Ed.		1,400
Special Projects		600
Graduate Assistants	200	
Professor's Offices	600	150
Semi-Private Offices	200	200
Secretarial/Clerical	400	
Departmental Storage	300	
Resource Center	800	
Independent Student		
Study Stations	600	
<b>Subtotals:</b>	<b>7,600</b>	<b>2,350</b>
<b>General Use:</b>	<b>19,000</b>	<b>5,875</b>
Storage, Circulation, Public Use, etc.; 40% of total assigned space)		
<b>Total:</b>	<b>26,600sq.ft.</b>	<b>8,225sq.ft.</b>



○ Needed by end of school year 1970-71.

● Needed in 0-3 Years

## Report of the

## MINORITY GROUP CULTURAL AWARENESS CENTER

July 1, 1970 to June 30, 1971

John A. Aragon, Director

Prepared by Bryan McOlash

The following information is needed to complete records for the program and to inform interested persons of Title IV technical assistance activities. Would you please complete all items related to your operation and return the completed form to this Office no later than September 15, 1971. If you need additional space, please attach a blank sheet and number the continued item as it is numbered on the form. Please follow the format indicated for each item, so as to simplify our use of the data. Your cooperation is greatly appreciated.

1. a. Number of districts for which you have PREPARED a school desegregation plan which was submitted to the superintendent and/or board of education by the Title IV staff during the period July 1, 1970 - June 30, 1971.

STATE

NUMBER OF DISTRICTS

0\*

Total Districts: 0

\* See attached explanation #1a

- b. List the name and location of each of these districts. If the plan as submitted has been totally or largely approved by the district, please place an asterick next to the name.

NAME OF SCHOOL

DISTRICT

LOCATION

See attached explanation #1a

2. a. Number of districts where you ASSISTED in the development of a school desegregation plan which was submitted to the board of education by the superintendent or someone other than the Title IV staff during the period July 1, 1970 - June 30, 1971.

#1a

The Cultural Awareness Center at The University of New Mexico is unique in the Title IV Desegregation Centers because its function is slightly different from the others. From its inception it has concerned itself primarily with integrating curricular offerings rather than with school desegregation as such.

School segregation has not yet been an issue in the State of New Mexico. One illustration of this would be the fact that there has not been any Title VI activity in the State to date and there have not been any school districts who have had to desegregate either voluntarily or otherwise.

The problem in New Mexico has been that the curriculum by and large continues to serve the needs of only the middle class anglo student. The Center has concentrated in making the schools sensitive to the needs of minority group students.

The Cultural Awareness Center's greatest contribution is that it is working as a forerunner in helping schools develop school programs, materials, and in-service training projects that will necessarily be the followup type of activities desperately needed once schools are integrated physically. If such programs are not carefully planned and implemented, school integration will mean nothing.

Because of this, the report of this Center does not follow the pattern of others. All data herewith reported will have to be interpreted with the above in mind.

<u>STATE</u>	<u>NUMBER OF DISTRICTS</u>
---	---
_____	_____
_____	_____
_____	_____

See attached explanation #1a

- b. List the name and location of each of these districts. If the plan as submitted has been totally or largely approved by the district, please place an asterisk next to the name.

<u>NAME OF SCHOOL</u>	<u>LOCATION</u>
<u>DISTRICT</u>	<u>---</u>
---	---
_____	_____
_____	_____

See attached explanation #1a

3. List by State, the name of each school district listed in No. 1 and 2, that is desegregating under Court Order.

<u>STATE</u>	<u>NAME OF SCHOOL</u>	<u>LOCATION</u>
---	<u>DISTRICT</u>	---
---	---	---
_____	_____	_____
_____	_____	_____

See attached explanation #1a

4. a. Number of requests for technical assistance received during the period 7/1/70 - 6/30/71. (Please DO NOT include meetings to inform about availability of services, ESAP, project monitoring, or giving speeches). Technical assistance is defined in the law as "assistance... in the preparation, adoption, and implementation of plans for the desegregation of public schools. Such technical assistance may, among other activities, include making available... information regarding effective methods of coping with educational problems occasioned by desegregation, and making available to such agencies personnel... specially equipped to advise and assist them with such problems." (Assistance in proposal development, exclusive of ESAP, training programs and dealing with post-desegregation problems can be considered technical assistance for purposes of this survey).

<u>STATE</u>	<u>NUMBER OF REQUESTS</u>
---	---
_____	_____
_____	_____
_____	_____

See following page #4a

Total Requests: \_\_\_\_\_

<u>STATE</u>	<u>NUMBER OF REQUESTS</u>
New Mexico	
18 State Department	
110 Schools	
58 Universities	
19 Other	202
Texas	
(9 HEW)	
2 State Department	
5 Schools	
4 Universities	11
Colorado	
1 School	
1 University	2
Arizona	
1 University	1
Utah	1
California	
3 University	
1 School	4
National Committies, Offices, etc	16

TOTAL REQUESTS 237

For a brief definition of technical assistance see  
attached explanation #1a.

- b. Number of different school districts making the above requests for technical assistance during the period 7/1/70 - 6/30/71 (assuming some districts requested assistance more than once in the 12 month period) 34.

## NAME OF SCHOOL

DISTRICT

LOCATION

See attached list #4b

5. Please break down the total requests for technical assistance, listed under 4a above, into the sources of referral as indicated below:

Requests direct from school district	<u>118</u>
HEW's Office for Civil Rights (Title VI)	<u>1</u>
Department of Justice	<u>0</u>
District or Circuit Court	<u>0</u>
State Education Department	<u>20</u>
Universities and Colleges	
(for institutes, conferences, etc.)	<u>65</u>
Other (Please specify)	<u>33</u>
<u>See attached list #4b (Other)</u>	

6. Please estimate what portion of the Title IV professional staff time available to your unit has been (a) spent on Title IV technical assistance, such as described in #4a above, and (b) ESAP technical assistance, during the period July 1, 1970 - June 30, 1971. (a) 100 %  
(b) 0.0 %.

7. CENTER DIRECTOR ONLY: Please answer the following questions regarding training programs conducted by your Center during the period 7/1/70 - 6/30/71.

A. Number of training programs	<u>59</u>
B. Number of districts served	<u>73 + (Texas - 2)</u>
C. Name of School	
District	Location
	No. of Participants

See attached List #7c

D. Total Number of Participants 3238 + (77 other - See attached list #7D)

## REQUESTS FOR TECHNICAL ASSISTANCE

Name of School DistrictLocation

Albuquerque  
 Los Alamos  
 Socorro  
 Mora  
 Las Vegas - West  
 Santa Fe  
 Questa  
 Espanola  
 Pojoaque  
 Clovis  
 Roswell  
 Alamogordo  
 Las Vegas - East  
 Hobbs  
 Bernalillo  
 Taos  
 Silver City  
 Carlsbad  
 Cuba  
 Las Cruces  
 Gadsden  
 Tucumcari  
 Los Lunas  
 Lovington  
 Ft. Sumner  
 Deming  
 Austin Public Schools  
 Pecos Public Schools  
 Monihans Public Schools  
 Abilene Public Schools  
 Alpine Schools  
 Beeville Schools  
 Denver Public Schools  
 Stockton Unified School Dist.

Albuquerque, New Mexico  
 Los Alamos, New Mexico  
 Socorro, New Mexico  
 Mora, New Mexico  
 Las Vegas, New Mexico  
 Santa Fe, New Mexico  
 Questa, New Mexico  
 Espanola, New Mexico  
 Pojoaque, New Mexico  
 Clovis, New Mexico  
 Roswell, New Mexico  
 Alamogordo, New Mexico  
 Las Vegas, New Mexico  
 Hobbs, New Mexico  
 Bernalillo, New Mexico  
 Taos, New Mexico  
 Silver City, New Mexico  
 Carlsbad, New Mexico  
 Cuba, New Mexico  
 Las Cruces, New Mexico  
 Anthony, New Mexico  
 Tucumcari, New Mexico  
 Los Lunas, New Mexico  
 Lovington, New Mexico  
 Ft. Sumner, New Mexico  
 Deming, New Mexico  
 Austin, Texas  
 Pecos, Texas  
 Monihans, Texas  
 Abilene, Texas  
 Alpine, Texas  
 Beeville, Texas  
 Denver, Colorado  
 Stockton, California

Colleges & Universities

The University of New Mexico  
   College of Education  
   Afro-American Study Center  
   Institute for Social Research  
     & Development  
   Continuing Education  
   Department of Health, Physical  
     Education & Recreation  
   Medical School  
   Chicano Studies Center  
   Department of Psychology

Albuquerque, New Mexico

Colleges & Universities (Cont.)Location

The University of Albuquerque*	Albuquerque, New Mexico
College of Santa Fe*	Santa Fe, New Mexico
New Mexico State University*	Las Cruces, New Mexico
Western New Mexico University*	Silver City, New Mexico
Eastern New Mexico University*	Portales, New Mexico
New Mexico Institute of Technology*	Socorro, New Mexico
New Mexico Highlands University*	Las Vegas, New Mexico

\*These requests are, for the most part, related to the Higher Education Institutes. However, the present report only includes the request for program planning or development. It does not include other activities like program monitoring, contract negotiations, budgetary work, etc.

Texas Tech	Lubbock, Texas
University of Texas	El Paso, Texas
University of California	Bakersfield, California
Stanford University	Palo Alto, California
University of Utah	Salt Lake City, Utah
Cochise College	Cochise, Arizona
Southern Colorado State College	Pueblo, Colorado

Other

Southwestern Cooperative Educational Laboratory  
Albuquerque, New Mexico

Albuquerque Job Corp Center for Women  
Albuquerque, New Mexico

New Mexico Committee for White House Conferences on  
Children and Youth

New Mexico Bilingual Education Association

Mental Health Associations of New Mexico Board of Directors

Child Study Center  
Albuquerque, New Mexico

Model Cities - Day Care Evaluation Project  
Albuquerque, New Mexico

John Eastham, Minority Floor Leader, New Mexico State Senate

G. I. Forum

New Mexico Chapter, Public Relations Society of America

Home Education Livelihood Program



Other (Cont.)

New Mexico Council of Churches

Southwest Symposium

Dominican Sisters

Social Security Administration  
Washington, D.C.

Department of Labor  
Washington, D. C.

National Education Association  
Human Relations Committee

National Task Force for La Raza

National Education Association  
Field Representatives for Minority Education

Department of Health, Education, and Welfare  
Washington, D. C.

Institute for Personal Effectiveness in Children  
San Diego, California

Civil Rights Office - Advisory Task Force

U. S. Forest Service  
Continental Divide, New Mexico

American Council of Foreign Language Teaching  
Executive Council

<u>District</u>	<u>Location</u>	<u>No. of Participants</u>
Alamogordo Public Schools	Alamogordo, N. Mex.	3
Albuquerque Public Schools	Albuquerque, N. Mex.	715
Artesia Public Schools	Artesia, N. Mex.	10
Aztec Public Schools	Aztec, N. Mex.	7
Belen Public Schools	Belen, N. Mex.	25
Bernalillo Public Schools	Bernalillo, N. Mex.	59
Bloomfield Public Schools	Bloomfield, N. Mex.	1
Capitan Public Schools	Capitan, N. Mex.	1
Carlsbad Public Schools	Carlsbad, N. Mex.	82
Chama Valley Public Schools	Tierra Amarilla, N. Mex.	26
Cimarron Public Schools	Cimarron, N. Mex.	3
Clovis Public Schools	Clovis, N. Mex.	100
Cobre Public Schools	Bayard, N. Mex.	7
Deming Public Schools	Deming, N. Mex.	33
Dexter Public Schools	Dexter, N. Mex.	10
Dora Public Schools	Dora, N. Mex.	3
Encino Public Schools	Encino, N. Mex.	2
Espanola Public Schools	Espanola, N. Mex.	86
Farmington Public Schools	Farmington, N. Mex.	9
Floyd Public Schools	Floyd, N. Mex.	8
Ft. Sumner Public Schools	Ft. Sumner, N. Mex.	9
Gadsden Public Schools	Anthony, N. Mex.	20
Gallup-McKinley County Public Schools	Gallup, N. Mex.	61
Grants Public Schools	Grants, N. Mex.	15
Hagerman Public Schools	Hagerman, N. Mex.	6
Hatch Public Schools	Hatch, N. Mex.	15
Hobbs Public Schools	Hobbs, N. Mex.	212
Hondo Valley Public Schools	Hondo, N. Mex.	3
Jemez Mountains Pub. Schls.	Gallina, N. Mex.	2
Lake Arthur Public Schools	Lake Arthur, N. Mex.	5
Las Cruces Public Schls.	Las Cruces, N. Mex.	94
Las Vegas City Schools	Las Vegas, N. Mex.	156
Las Vegas - West Pub. Schls.	Las Vegas, N. Mex.	314
Lordsburg Public Schools	Lordsburg, N. Mex.	6
Los Alamos Public Schls.	Los Alamos, N. Mex.	26
Los Lunas Public Schools	Los Lunas, N. Mex.	21
Loving Public Schools	Loving, N. Mex.	3
Lovington Public Schools	Lovington, N. Mex.	178
Magdalena Public Schools	Magdalena, N. Mex.	18
Maxwell Public Schools	Maxwell, N. Mex.	3
Mora Public Schools	Mora, N. Mex.	53
Moriarity Public Schools	Moriarity, N. Mex.	4
Mosquero Public Schools	Mosquero, N. Mex.	1
Mountainair Public Schools	Mountainair, N. Mex.	9
Ojo Caliente Public Schools	El Rito, N. Mex.	4
Pecos Public Schools	Pecos, N. Mex.	14
Penasco Public Schools	Penasco, New Mexico	21
Pojoaque Public Schools	Pojoaque, N. Mex.	14
Portales Public Schools	Portales, N. Mex.	48

<u>District (Cont.)</u>	<u>Location</u>	<u>No. of Participants</u>
Quemado Public Schools	Quemado, N. Mex.	1
Questa Public Schools	Questa, N. Mex.	50
Raton Public Schools	Raton, N. Mex.	2
Reserve Public Schools	Reserve, N. Mex.	1
Roswell Public Schools	Roswell, N. Mex.	12
Santa Fe Public Schools	Santa Fe, N. Mex.	81
Santa Rosa Public Schools	Santa Rosa, N. Mex.	30
Silver City Public Schools	Silver City, N. Mex.	37
Socorro Public Schools	Socorro, N. Mex.	61
Springer Public Schools	Springer, N. Mex.	9
Taos Public Schools	Taos, N. Mex.	223
Tucumcari Public Schools	Tucumcari, N. Mex.	58
Tularosa Public Schools	Tularosa, N. Mex.	1
Vaughn Public Schools	Vaughn, N. Mex.	3
Wagon Mound Public Schools	Wagon Mound, N. Mex.	13
Clayton Public Schools	Clayton, N. Mex.	2
Grady Public Schools	Grady, N. Mex.	1
Ruidoso Public Schools	Ruidoso, N. Mex.	2
Truth or Consequences Public Schools	T. or C., N. Mex.	2
Eunice Public Schools	Eunice, N. Mex.	1
Elida Public Schools	Elida, N. Mex.	2
Cuba Public Schools	Cuba, N. Mex.	1
Estancia Public Schools	Estancia, N. Mex.	1
Tatum Public Schools	Tatum, N. Mex.	6
Pecos & Monihans Schools	Pecos, Texas	73
Alpine Schools	Alpine, Texas	50

Number of board members: 13  
superintendents: 35  
other central office personnel: 242  
principals: 224  
counselors: 170  
teachers: 2304  
non-professionals: 171  
other (please specify) -See attached list #  
77 - See attached list #7D

8. Notes, questions and comments pertaining to this survey are welcomed.

Thank you for your prompt attention to this survey. Please review all data submitted for accuracy.

(12)

#7D

Others: These people attended training sessions on a space available basis and paid their own expenses.

Rollie Heltman, Fine Arts Coordinator  
State Department of Education

Mariann Barrett, German Instructor  
The University of New Mexico

Fermin Montes, Instructor  
Thiokol Corporation

William D. Vergot, Staff Officer  
Department of the Army  
Washington, D.C.

John Gonzalez, Staff Officer  
Headquarters, 4th Army  
Ft. Sam Houston, Texas

Chris Padilla, Computer Instructor  
Sandia Corporation  
Albuquerque, New Mexico

Joanne Stewart, Adult Basic Education Teacher  
Concentrated Employment Program  
Santa Fe, New Mexico

Richard Casillas, Adult Basic Education Teacher  
Concentrated Employment Program  
Santa Fe, New Mexico

Dorothy Cole  
Employment Supervisor  
Mountain States Telephone  
Albuquerque, New Mexico

Eleanor Settle, Employment Supervisor  
Mountain States Telephone  
Albuquerque, New Mexico

Don Perkins, Director  
New Mexico Committee on Children & Youth  
Member C.A.C. Advisory Committee

W. B. Creamer, Director of Industrial Relations  
Atomic Energy Commission  
Albuquerque, New Mexico

Leo Apodaca, Equal Employment Opportunity Coordinator  
Atomic Energy Commission  
Albuquerque, New Mexico

## Others (Cont.):

Elias Bernal, Staff Member  
Latin American Projects  
The University of New Mexico

Simon Gonzales, Professor  
The University of California  
Los Angeles, California

Mary Gonzalez, Instructor  
The University of California  
Los Angeles, California

Avelino Gutierrez, Attorney  
Member of C.A.C. Advisory Committee

Curtis Ewing, Teaching Assistant  
The University of New Mexico

Jose Ortéga, Counselor  
Douglas, Arizona

Cecilio Orozco, Professor  
Cochise College,  
Cochise, Arizona

Ralph De Mar, Professor  
The University of New Mexico

Juanita Cata  
The University of New Mexico

Lupe Anguiano, Civil Rights Specialist  
Office of Civil Rights  
H.E.W.  
Washington, D.C.

Sarah Bishop, Southwest Cultural Center  
The University of Albuquerque

George Hirshfield, Professor  
The University of New Mexico

Robert Esparza, Professor  
The University of New Mexico

Pauline Rindone, Instructor  
Albuquerque Job Corp. Center

Dave Ryther, Placement Counselor  
Albuquerque Job Corp Center

## Others (Cont.):

Gretchen Woodard  
Placement Counselor  
Albuquerque Job Corp Center

Jeanne Singleton, Resident Advisor  
Albuquerque Job Corp. Center

Connie Goldsmith, Teacher  
Albuquerque Job Corp Center

D. Dominguez, Counselor  
The University of Texas - El Paso

Henry Pasqual, Language Coordinator  
State Department of Education

Leon Marquez, Professor  
The University of New Mexico

Hank Arredondo, Administrator  
Arizona State Department of Education  
Tempe, Arizona

Ricardo Griego, Director - Chicano Studies  
The University of New Mexico

Joseph Sanchez, Instructor  
Chicano Studies  
Santa Clara College  
Santa Clara, California

Feliciano Rivera, Professor  
San Jose State College, San Jose, CVlifornia

A. B. Chavez, Professor  
San Jose State College  
San Jose, California

Donald Cutter, Professor  
The University of New Mexico

Cecil Robinson, Professor  
University of Arizona  
Tucson, Arizona

Nelson Gonzales, Counselor  
New Mexico Technical Vocational School  
El Rito, N. Mex.

Dave Crosby, Counselor  
Western New Mexico University  
Silver City, New Mexico

## Others (Cont.):

Don Trammell, Counselor  
Western New Mexico University  
Silver City, N. Mex.

Ambrosio Ortega  
Administrator - Latin American Projects  
The University of New Mexico

B. Chaue, Pastor  
Mt. Carmel Baptist Church  
Las Cruces, N. Mex.

Alfred Rucks, President, NAACP  
Las Cruces, New Mexico

Sam Johnson  
The University of New Mexico

Al Latham, Staff  
Institute for Social Research & Development  
Child Development Program  
The University of New Mexico

Ruben Cobos, Professor  
The University of New Mexico

Leon Cashaw, Coordinator  
Texas Education Desegregation/Technical Assistance Center  
Austin, Texas

Everett Morris, Administrative Assistant  
Office of Navajo Economic Opportunity  
Window Rock, Arizona

Dan Chavez, Director, College Enrichment Program  
The University of New Mexico

Alfonso Peralez, Program Director  
National Teacher Corp  
University of Texas,  
Austin, Texas

William Lyons, Administrative Assistant  
National Teacher Corp  
University of Texas  
Austin, Texas

Frank McGuire, Director  
Western Planning & Training Institute  
Albuquerque, New Mexico



## Others (Cont.):

Epifano Welch, Personnel Representative  
Hercules Corporation  
Layton, Utah

R. M. Hawkins, Chief Program Officer  
Title IV  
Dallas, Texas

Richard Wilson, Coordinator, Native American Studies  
The University of New Mexico

Richard Griego, Coordinator, Chicano Studies  
The University of New Mexico

Robert Kline, Director of Instructional Services  
The University of New Mexico

George Gonzalez, Instructor  
The University of New Mexico

John Cordova, Consultant  
Southwestern Cooperative Educational Laboratory  
Albuquerque, New Mexico

Barrett Price, Consultant  
Southwestern Cooperative Educational Laboratory  
Albuquerque, New Mexico

Lois Sorenson, Principal  
Salt Lake City Public Schools  
Salt Lake City, Utah

Sigfredo Maestas, Professor  
New Mexico Highland University  
Las Vegas, New Mexico

Robert Muncy, Professor  
New Mexico Highlands University  
Las Vegas, New Mexico

Willie Sanchez, Professor  
New Mexico Highlands University  
Las Vegas, New Mexico

Marian Blackett, Principal  
Salt Lake City Public Schools  
Salt Lake City, Utah

Ron Blood, Professor  
The University of New Mexico

## Others (Cont.):

Ignacio Cordova, Professor  
The University of New Mexico

Spencer Bennion, Social Studies Specialist  
Salt Lake City Public Schools  
Salt Lake City, Utah

William Robinson, Principal  
Salt Lake City Public Schools  
Salt Lake City, Utah

Joe Sandoval, Mexican American Consultant  
Salt Lake City Public Schools  
Salt Lake City, Utah

Kent Hall, Teacher  
Salt Lake City Public Schools  
Salt Lake City, Utah

Elden Rasmussen, Principal  
Salt Lake City Public Schools  
Salt Lake City, Utah

Lee Hawtee, Principal  
Salt Lake City Public Schools  
Salt Lake City, Utah

Robert Gallegos, Intern  
Ford Foundation Leadership Training Program

R. J. Jimenez, Intern  
Ford Foundation Leadership Training Program

TABLE I

TITLE IV OF THE CIVIL RIGHTS ACT OF 1964  
Office of Education  
Division of Equal Educational Opportunities

Name of Title IV Unit: \_\_\_\_\_

Technical Assistance Survey: July 1, 1970 - June 30, 1971

Assistance with Plan Development

State	Total no. of requests for technical assistance	No. of different school districts assisted	No. of plans prepared and submitted to sch. bd. or superintendent	No. approved to date	No. of plans involving DEEO staff assistance with development	No. approved to date	Total no. of plans developed	No. of different districts assisted with plan development	Total no. of plans for districts under Court Orders
New Mexico	206	28							
Texas	12	5							
Colorado	2	1							
California	3	1							
Arizona	1	0							

TABLE III

Name of Title IV Unit:

TITLE IV OF THE CIVIL RIGHTS ACT OF 1964  
Office of Education  
Division of Equal Educational Opportunities

Technical Assistance Survey: July 1, 1970 - June 30, 1971

Sources of Requests for Technical Assistance:

STATE	Direct from school district	Office for Civil Rights	Justice Department	District or Circuit Court	State Educa- tion Agency	Other	Total
New Mexico	113	0	0	0	18	71	202
Texas	4	1	0	0	2	4	11
Colorado	1	0	0	0	0	1	2
Arizona	0	0	0	0	0	1	1
California	1	0	0	0	0	3	4
Utah						1	1
National Committees Offices, etc.							16

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TABLE IV

Name of Title IV Unit:

TITLE IV OF THE CIVIL RIGHTS ACT OF 1964  
Office of Education  
Division of Equal Educational Opportunities

Technical Assistance Survey: July 1, 1970 - June 30, 1971

Summary Report: Center Training Programs

Name & location of school district	No. of training programs	No. of school districts served	Total No. of Partici- pants	Types of Participants							
				Board Members	Supts.	Other Central Off. Pers.	Prin- cipals	Counse- lors	Teachers	Non- Prof Pers.	other
Albuquerque Public Schools Albuquerque, NM	9	1	367	0	3	64	30	20	240	10	0
Carlsbad Public Schools Carlsbad, NM	1	1	51	2	1	4	5	10	21	8	0
Clovis Public Schools, Clovis, NM	1	1	85	0	1	3	1	3	42	35	0
Espanola Public Schools Espanola, NM	1	1	17	0	1	2	1	1	10	2	0
Hobbs Public Schools, Hobbs, NM	1	1	201	2	1	16	20	16	140	6	0
Pecos, Texas	1	2	73	0	1	6	7	4	55	0	0

Name of Title IV Unit:

TITLE IV OF THE CIVIL RIGHTS ACT OF 1964  
Office of Education  
Division of Equal Educational Opportunities

Technical Assistance Survey: July 1, 1970 - June 30, 1971

Summary Report: Center Training Programs

Name & location of school district	No. of training programs	No. of school districts served	Total No. of Partici- pants	Types of Participants							
				Board Members	Supts.	Other Central Off. Pers.	Prin- cipals	Counse- lors	Teachers	Non- Prof Pers	other
Alpine, Texas	1	1	50	0	1	8	4	4	31	2	0
Las Vegas City Schools, Las Vegas, NM	1	1	32	0	1	3	1	2	22	3	0
Las Vegas - West Schools, Las Vegas, NM	2	1	235	0	2	27	8	6	192	0	0
Lovington Public Schools Lovington, NM	1	1	160	0	1	12	6	4	137	0	0
Mora Public Schools, Mora, NM	1	1	40	2	1	3	2	1	31	0	0
Questa Public Schools, Questa, NM	1	1	36	0	1	1	1	1	32	0	0
Silver City Public Schools	1	1	35	0	0	3	2	3	27	0	0

Name of Title IV Unit:

TITLE IV OF THE CIVIL RIGHTS ACT OF 1964  
Office of Education  
Division of Equal Educational Opportunities

Technical Assistance Survey: July 1, 1970 - June 30, 1971

Summary Report: Center Training Programs

Name & location of school district	No. of training programs	No. of school districts served	Total No. of Participants	Types of Participants							
				Board Members	Supts.	Other Central Off. Pers.	Principals	Counselors	Teachers	Non-Prof Pers	other
ocorro Public schools, ocorro, NM	1	1	12	0	0	3	2	2	4	1	0
aos Public schools, aos, NM	1	1	180	3	1	10	8	6	142	10	0
ucumcari Public Schools ucumcari, NM	1	1	32	0	0	4	2	2	23	1	0
minority group cultural awareness center seminar	16	64	719	4	16	57	79	67	390	27	79
higher education institutes	16	55	913	0	3	16	45	18	765	66	0

School Districts Assisted Under Title IV

TABLE II

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

\_\_\_\_\_

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Albuquerque Public Schools (45 requests)		Planning for Albuquerque Public Schools Awareness Workshop. Program activities for Title IV Project Review of goals for project (2 requests). Meeting to coordinate efforts of Title IV Project and University Bilingual Project. Evaluation of progress and further planning for Title IV Project (3 requests). Meeting on educational problems of minority group students at one high school and one junior high (3 requests). Assistance to Area South Office in relation to Mexican-American problems at one high school (2 requests) Planning for additional sessions of Title IV Project. Meeting with 20 principals and teachers to discuss language problems of Spanish-speaking.

\* Key: Place the appropriate symbol or combination of symbols in plan development column:

1. Plan developed for district and submitted to board by Title IV staff
2. Title IV staff assisted board with plan development

(23)



School Districts Assisted Under Title IV

TABLE II (continued)

(2)

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Albuquerque (continued)		<p>Planning for Title IV Project.</p> <p>Discussion of behavior patterns of minority group children in the elementary school (2 requests).</p> <p>Session of Title IV Project on preparing culturally diverse social studies units.</p> <p>Informed teachers and principal in one school about introduction of cultural pluralism in elementary school.</p> <p>In-service training of faculty and staff in one bilingual school (2 requests).</p> <p>In-service training in bilingual education for Area South Curriculum Committee (2 requests).</p> <p>Examination and suggested possibilities of bilingual education in Area North (3 requests).</p>

(24)

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School Districts Assisted Under Title IV

TABLE II, (continued)  
(3)

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

---

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Albuquerque. (continued)		<p>Presentation of methods and techniques in teaching Language Arts for minority group children - Area South (3 requests).</p> <p>Refined reading goals for bilingual children - Area South Curriculum Council (2 requests).</p> <p>Arrangement for field testing bilingual materials in Social Studies Project.</p> <p>Planning of program for students and teachers to further cultural understanding at one high school.</p> <p>Review of films and materials for cultural sensitivity program in a special language project for Mexican-American students.</p> <p>Planning of strategies to sensitize school administrators to cultural differences.</p> <p>Conducted Albuquerque Public Schools Title IV Workshop for high school</p>

(25)

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School Districts Assisted Under Title IV

TABLE II (continued)  
(4)

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Albuquerque, (continued)		<p>Examined Mexican-American values and their relation to elementary education.</p> <p>Provided information on cultural awareness and youth guidance to Career Opportunities Program staff. (26)</p> <p>Presented Cultural Awareness package to school personnel and parents at one elementary school.</p> <p>Informed group of teachers at one high school, one junior high, and one elementary school about cultural differences and implications for education.</p> <p>Informed teachers at one elementary school about cultural diversity and education implications.</p> <p>Assisted counselors and administrators on guidance and counseling of minority group students.</p> <p>Planning of summer workshop on bi-cultural education.</p>

15

(

1000

(27)

6719

1. Plan developed for district and submitted to board by Title IV staff
2. Title IV staff assisted board with plan development
3. Plan approved by board

## School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971 by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
ocorro (continued)		Test data analysis re: minority group children.
		Planning session for ten-day Institute.
ora (1 1 request)		Examine current school programs with school personnel to determine relevance to cultural diversity.
as Vegas - West (7 requests)		Worked with LEA on cultural program.
		Assisted in analysis of guidance programs as it relates to Mexican-American children.
		Assisted in area of vocational guidance and curriculum development (2 requests).
		Reexamined reading problems of minority group students.
		Developed guidelines for guidance and testing.

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3. Plan approved by board

School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Las Vegas - West (continued)		Formulation of plans for a program on making counselors and other personnel aware of the learning difficulties of minority group students.
Santa Fe (2 requests)		Met with staff members of one elementary school regarding in-service training program, bilingual-bicultural education. (29)
Albuquerque (5 requests)		Evaluation of bilingual/bicul. prog. Aid in setting-up a system-wide testing program with concurrent evaluation of overall school program (3 requests).
Alamogordo (8 requests)		Counseling and guidance of minority students (2 requests).  Planning of in-service training program, bilingual/bicultural education (2 requests).  Study of feasibility of establishing a testing program for the primary grades in preparation for establishing a bilingual/bicultural program.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
spanola (continued)		<p>Meeting with superintendent on 1970-71 school activities.</p> <p>Examined how culture affects learning styles with school personnel and parents.</p> <p>Guidance and minority group students.</p> <p>Evaluation and bilingual program.</p>
Joaque (2 requests)		<p>Meeting with superintendent on Center's fall activities.</p> <p>Consulted with elementary principal on bilingual/bicultural program development.</p>
lovis (2 requests)		<p>Discussion with superintendent principal, teachers, and teachers aides about techniques of working with Spanish-speaking students.</p> <p>Met with superintendent on Local Education Agency proposal.</p>

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971 by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
oswell (1 request)		Meeting on LEA proposal possibilities.
lamogordo (1 request)		Meeting on LEA proposal possibilities.
as Vegas - City (3 requests)		Consultation with school personnel on cultural implications for curriculum. (31)
		Consultation on bilingual project (2 requests).
obbs (4 requests)		Met with superintendent on LEA proposal possibilities
		Planned two-day workshop with superintendent.
		Study of the Mexican-American student with superintendent, directors, coordinators, principals and teachers.
		Conferred with principal on setting-up summer in-service program.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
rnalillo (4 requests)		<p>Conducted Title IV Workshop for the high school teachers.</p> <p>Planned an in-service day for total faculty with the Title IV Director (2 requests).</p> <p>Examined need for bicultural education with faculty and parents from one elementary school.</p>
as (4 requests)		<p>Conducted Cultural Awareness Institute for total faculty.</p> <p>Conducted workshop on how to use school-testing date.</p> <p>Meeting with superintendent on activities for 1970-71 school year. Examination of obstacles to language learning.</p>
arlsbad. (3 requests)		<p>Workshop in cultural awareness and guidance for minority groups with teachers, counseling staff, administrators and community people (2 requests)</p>

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971 by Type of Assistance

Name of Title IV Unit:

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Carlsbad (continued)		Workshop in the Mexican-American and reading in the elementary school.
Silver City (1 request)		Met with mid-school faculty on local Title IV activities.
Tuba (1 request)		Meeting with personnel to plan fall activities regarding guidance and counseling of Mexican-American and Indian students.
Las Cruces (2 requests)		Conference on Mexican-American Week.  Conference with superintendent on cultural diversity.
Gadsen (2 requests)		Consulted with superintendent on educational implications of cultural diversity (2 requests)
Tucumcari (1 request)		Consulted with public schools regarding preschool program and bicultural education.
Los Lunas (2 requests)		Technical Assistance to school officials.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Los Lunas (continued)		Consulted with teachers on application of workshop materials for classroom teaching.
Lovington (1 request)		Conducted a two-day workshop on Understanding The Mexican-American Student.
Fort Sumner (1 request)		Assisted with attempted cultural awareness music program in high school.
Deming (1 request)		Planning session for a bilingual kindergarten.
Austin, Texas (1 request)		Participation in cultural workshop in Austin schools.
Abilene, Texas (1 request)		Participation in minority group seminar for the Abilene Public School faculty.
Stockton, California (1 request)		Conferred with school officials on multilingual characteristics Assessment Program. Procured information for possible use in Cultural Awareness Center activities.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Pecos, Texas		Cultural sensitivity seminar for school personnel from Monihans and Pecos, Texas via request from Region XVIII Educational Service Center.
Monihans, Texas (1 request)		
Alpine, Texas (1 request)		Assisted in Cultural Awareness seminar via request from Region XVIII Educational Services Center. (35)
Denver, Colorado (1 request)		Seminar to school personnel and community leaders on behalf of USOE - National Education Task Force of La Raza.
Seville, Texas		Assistance to aid a team working on plan for Title VI compliance.
State Education Department - New Mexico (18 requests)		Conference with personnel in statistics division regarding minority group education profile (6 requests)
		Planning for co-sponsorship of Cultural Awareness Center/State Department Guidance Seminar (2 requests).

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
State Education Department - New Mexico (continued)		Conference on the assessment of school staffing in the State (5 requests).  Participation in the selection of participants for a summer State Department Institute to train bilingual teachers.  Met with State Department Social Studies Committee for the selection of adopted materials.  Meeting with State Department Title IV Coordinator for planning of Cultural Awareness Center Bilingual Seminar.  Meeting with statistics personnel regarding data on Spanish surnamed teachers.  Follow-up on previous Cultural Awareness Center/State Department Guidance Seminar.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
State Education Department Texas (2 requests)		Region XVIII Educational Services Center forwarded two requests for assistance with three Districts (Pecos, Monihans, and Alpine)
<u>Universities and Colleges</u>		
The University of New Mexico College of Education (20 requests)		Preliminary plans for week-end seminars for Special Education teachers (2 requests)  Meeting with UNM group interested in bilingual education to discuss plans to be submitted to State Legislature in defending a line-item in the University budget for Bilingual Education Teacher Training.  Meeting with Cultural Diversity Task Force to discuss recruitment of minority group students and faculty for the teaching profession (2 requests)

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

Name of Title IV Unit:

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
<u>UNIVERSITIES AND COLLEGES</u>  The University of New Mexico College of Education (20 requests)		(38)  Met with two faculty members to find ways to sensitize College of Education faculty to cultural differences.  Meeting with Cultural Diversity Task Force to discuss strategies to force change in the teacher training curriculums (4 requests).  Study of proposal on cultural awareness in higher education.  Discussion of attitudes necessary to meet the needs of bilingual students with student teachers in Black and Mexican-American schools.  Meeting with professors to find ways to implement programs to meet commitment of "May Memo."  Met with two professors to help develop criteria for bilingual education certification at UNM.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
College of Education (continued)		<p>Meeting with Language Arts Block to find specific ways of bringing cultural diversity into teacher training.</p> <p>Discussion and planning of proposed bilingual/bicultural institute (2 requests)</p> <p>Planning sessions on teacher education for minority group members (3 requests)</p>
Afro-American Study Center (1 request)		Assisted Director with preparation for seminar on Black children in the schools.
Chicano Studies Center (2 requests)		Planning of television series on "The Spanish-Speaking of New Mexico."
Institute for Social Research and Development (6 requests)		Planning of History Institute.  Discussion of early childhood programs for minority group children with staff members from Child Development Center.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Institute for Social Research and Development (6 requests)		Conference regarding measurement and evaluation planning for early childhood development of culturally different children (4 requests).  Met with Head of Maternity and Infant Care Division to discuss ways to prepare materials on nutrition to use with minority group students in the public schools.
Continuing Education (3 requests)		Discussion of course: Tricultural Controversies in the Southwest (2 requests).  Participation in evening course on cultural differences.
Medical School (2 requests)		Discussion of evaluation program and procedures for continuing education seminars in Mental Health.  Meeting with staff and students on needs for cultural awareness in medicine.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Department of Psychology (1 request)		Discussion on learning difficulties of the culturally different.
Department of Health, Physical Education and Recreation (4 requests)		Conference on curricular modification in classes that prepare teachers who will work with minority group youngsters (2 requests). (41)
The University of Albuquerque (3 requests) College of Santa Fe (3 requests) New Mexico State University (3 requests) Western New Mexico University (2 requests) Eastern New Mexico University (1 request) New Mexico Institute of Technology (1 request) New Mexico Highlands University (2 requests)		Discussion of cultural awareness in education recreation (2 requests)  These requests are generally related to the Higher Education Institutes. However, this report only includes requests for program planning, development, or participation. It does not include other activities like program monitoring, contract negotiations, etc.

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971, by Type of Assistance.

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Texas Tech (1 request)		Consultation with counselor trainee group on guidance and minority groups.
University of Texas at El Paso (3 requests)		Conducted in-service program for College of Education faculty (2 requests)
University of California Bakersfield (1 request)		Analysis of Chicano-Block-Anglo Encounter Group materials.
Stanford University (2 requests)		Discussion of higher education programs for Mexican-Americans
University of Utah (1 request)		Participation in Graduate School Symposium
Cochise College (1 request)		Discussed graduate school opportunities and aided in interviews.
		Discussion of recruitment procedures of minority group professors for College of Education.
		Examination of proposed project for training reading teachers for Mexican-American students.

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July 1, 1970 - June 30, 1971, by Type of Assistance

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Southern Colorado State College (1 request)		Exploration of educational programs to help meet the needs of minority students.
unhandle (A&M)(1 request)		Discussion of current programs in cultural awareness.
OTHERS		
Southwestern Cooperative Educational Laboratory 2 requests)		Participation in conference on disadvantaged children.  Discussion of cultural component of the Oral Language Program.
Albuquerque Job Corps Center (1 request)		Discussion of possible assistance to job Corps Center.
New Mexico Committee for the White House Conference on Children and Youth (1 request)		Presented information on particular needs of minority group youth in New Mexico.
New Mexico Bilingual Education Association (3 requests)		Develop program for Association Convention. (3 requests).
Mental Health Association of New Mexico (1 request)		Provision of information relating to minority children.

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July 1, 1970 - June 30, 1971 by Type of Assistance

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Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Child Study Center (1 request)		Examination of program as it relates to minorities.
Model Cities - Day Care Evaluation Project (3 requests)		Examined selection of minority control group members and program evaluation (3 requests).
Minority Floor Leader New Mexico State Senate (1 request)		Discussion on problems of bilingual education and teacher preparation.
G. I. Forum (1 request)		Meeting on how their activities could be used to support public school efforts.
New Mexico Chapter Public Relations Society of America (1 request)		Discussion of Cultural Awareness and Language and Culture.
Home Education Livelihood Program New Mexico Council of Churches (1 request)		Provided information on approaches to cultural awareness.
Southwest Symposium Dominican Sisters (1 request)		Conducted portion of workshop for lay teachers and nuns (public schools).

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School Districts Assisted Under Title IV

July 1, 1970 -- June 30, 1971, by Type of Assistance

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Social Security Administration and Department of Labor (1 request)		Presented the methods of the Cultural Awareness Center's.. programs for consideration by these agencies.
National Education Association Human Relations Committee (2 requests)		Discussion of cultural awareness dimension in schools in the Southwest (2 requests)
National Education Association Representatives for Minority Education (1 request)		Evaluation of problems in Mexican- American and Indian education.
National Task Force for La Raza (2 requests)		Staff training institute.
Department of Health, Education and Welfare (3 requests)		Meeting with Commissioner of Educa- tion and Division Directors.
		Met with UNM Dean and professors to study a proposal on cultural awareness in higher education. Discussion of teaching materials for minority group children. (2 requests).

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School Districts Assisted Under Title IV

July 1, 1970 - June 30, 1971 by Type of Assistance

Name of Title IV Unit:

Name of School District	Assistance with Plan Development*	Other Technical Assistance (Do not include plan development)
Institute for Personal Effectiveness in Children (2 requests)		Discussed need for providing adequate cultural materials and models for developing positive self-concepts. (2 requests)
Civil Rights Office (3 requests)		Discussion of procedures for enforcement of the May 25, 1970 memo. (3 requests).
U.S. Forest Service (1 request)		Meeting to suggest how the Forest Service In Service Center can support the schools with high concentrations of Spanish-speaking students.
American Council of Foreign Language Teaching-Executive Council (1 request)		Planned year's work to include minority group needs. Discussed bilingual education for Puerto Ricans in New York.

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PUBLICATIONS

JOHN A. ARAGON

"An Impediment to Cultural Pluralism: Culturally Deficient Educators Teaching Culturally Different Students". This article will be published in a book of readings to be released by the United States Office of Education in the Fall of 1971.

"Culture, Conflict and Counselling", co-authored this article with Dr. Sabine Ulibarri. It is to be published in the Association for Personnel and Guidance Association (APGA) in September of 1971.

PAPERS PRESENTED

JOHN A. ARAGON

"Traditional Curricula and Cultural Conflict", presented at the University of California, Riverside, at a conference of the National Association of Mexican-American Educators, May, 1971. (May be published by D. C. Heath)

MARI-LUCI ULIBARRI

October 1970 - Read paper, "Working With The Puerto Rican Child On The Mainland". (Puerto Rican Education Conference)

March 1971 - Read Paper, "Reading In The 'English As A Second Language' Classroom". (National Convention of TESOL - New Orleans)

May 1971 - Read Paper, "The Challenge of Bilingual Education" (Mexican-American Symposium - Riverside)



## OTHER ACTIVITIES NOT ELSEWHERE MENTIONED

## JOHN A. ARAGON

Have delivered well over twenty-five lectures and addresses in either English or Spanish to many different groups throughout the State and in other States. Many of the lectures have been given to the faculties of colleges of education, such as at The University of California at Los Angeles (November 1970) and at Stanford University (February 1971).

April 1971 - cut a fifty-eight minute video tape and sixteen millimeter film which deal with some aspects of curriculum and instruction versus culture. Both the tape and film are being circulated nationally.

Consultant to the Texas Education Desegregation and Technical Assistance Center, University of Texas at Austin.

Member of the University of New Mexico Faculty Committee for Continuing Education and Curricula.

Member of the Board of Directors of the Albuquerque Association for Retarded Children.

Member of the Board of Directors, Hispanic Community Development Corporation, Washington, D.C.

Member at large of the University of New Mexico Policy Committee.

Member of the College of Education Faculty Policy Committee.

## OTHER ACTIVITIES NOT ELSEWHERE MENTIONED (Cont.)

John A. Aragon

Member of the Board of Directors of the Albuquerque Child Guidance Center.

Member of the National Education Task Force de La Raza, a National Commission established by the United States Office of Education.

Member of the National Task Force of the United States Office of Education's Division of Civil Rights, which has developed guidelines governing the placement of students of ethnic minorities in mental retardation classes. This Task Force is currently developing national guidelines for bicultural education to fulfill the compliance requirements of Title VI of the United States Office of Education.

Member of the Education Task Force of the President's Cabinet Committee on Opportunity for the Spanish Speaking. I serve as Chairman of this Committee.

As a member of the Task Force de La Raza, presented testimony to the U. S. Commissioner of Education in support of special funding for higher education for Spanish surnamed students.

Participated as an observer, on invitation by the Secretary of the Navy, of the Navy's operation in the Pacific during a ten day cruise aboard the carrier U.S.S. Kitty Hawk.

Observations and recommendations were made to the Navy at

## OTHER ACTIVITIES NOT ELSEWHERE MENTIONED (Cont.)

John A. Aragon

the end of the tour.

MARI-LUCI ULIBARRI

November 1970 - Chaired Bilingual Education Section,  
American Council of Foreign Language Teachers at Los Angeles.

April 1971 - Elected President of New Mexico Bilingual  
Association

Consulting Editor, Minorities: USA. New York: Globe Book  
Company, Inc.

Reader of final manuscript, The Discovery of Miguel Mendoza,  
Montal Systems, Washington, D.C.

February 1971 - Filmed a half-hour TV program on "New  
Mexican Spanish".

April 1971 - Filmed one hour TV program on "Sociology of  
Language".

May 1971 - Filmed a half-hour TV Program for HEW, "You and  
Usted".

Ready to be published by Cultural Awareness Center,  
Monograph - "Reading In The Bilingual Program".

## APPOINTMENTS TO STAFF:

Otero, Priscilla B. - September 1970

Rodríguez, Ramon - February 1971

Zubia, Eutemia Ramona - March 1971

Gallegos, Diana Kathleen - June 1971

## SEPARATIONS FROM STAFF:

Ortiz, Lucille Nell - April 1970

Chupco, Laurencita R. - June 1971

Ulibarri, Joe Ramon - June 1971

The Report of the Learning Materials Center

July 1, 1970 - June 30, 1971

Robert D. Kline, Director

CURRICULUM LIBRARY

Curriculum Library, Learning Materials Center, College of Education, serves a special clientele of education students, faculty members and cooperating APS teachers, in addition to members of the university community. More and more evaluation and adoption teams from independent, parochial, government and public schools from the Central region of the state are visiting the Center to view available print and non-print curriculum materials.

The Center is open five days a week during regular term and summer session. The Curriculum Library is staffed by a librarian and work-study student assistants. Staffing has been reduced from 180 student-hours weekly in 1968-69 to 60 student hours in 1971-72.

Student assistants retrieve, charge out and reshelve books, file catalog cards, process new material which is cataloged in the library, and maintain picture and catalog files.

The Curriculum Library operates without funds for acquisition, but has substantially increased the collection in 1970-71, and has received direct gifts from publishers of curriculum materials valued at \$5,106.47 (as reported in detail to the Department of Development).

- 2 -

An important task accomplished by the LMC Committee of 1970-71 was the formulation of a much-needed circulation policy paper. A recommendation of the Committee for proposed minor remodeling will, when accomplished, provide additional space for the library, improve appearance, contribute to efficiency and, most important, furnish much-needed closed stack area for valuable media items which are disappearing at an alarming rate from unsecured locations.

Broader use and acceptance of the Center by education students and faculty, University community, and public have created rising expectations which can best be met by budgeting for adequate staff and for acquisition of materials.

Curriculum Collection: Added items (net) 4160

Picture Collection: Mounted and classified items added: 1210

Orientations: 23 No. of persons 568

Special Exhibits 18

Evaluation and adoption teams (identified) 19

Uses of listening facility 321

Circulation: Faculty 1581 Students 16,991 Total 18,572

Attendance 14,727

Tours for special groups: 16

- 3 -

LMC PRODUCTION CENTER

The Learning Materials Production Center expanded its services during the past year to include the producing of photographic slides (black and white) diazo transparencies, photographic transparencies, original art work and the production and reproduction of audio tapes (reel and cassette). During the past year this center produced the following:

	approximately
slides	465
thermo transparencies	2400
diazo transparencies	1500
photographic transparencies	215
audio tapes	210
miscellaneous	450

The above work was accomplished by the director and Mr. Rorabaugh with the assistance of one work-study fifteen hours per week. A major portion of the work in the center continues to be duplication, estimated at 2500 reams.

ACADEMIC PROGRAM

Closely associated with the production area are the academic classes in media. By concentrating in this area academic classes were increased from two service classes; to five areas of media and secondary education 551 problems courses. Enrollment in these areas increased from 40 per semester last year to a maximum of 289 during the spring semester. This increase was due for the most part to the emphasis placed on media by the department of Secondary Education instituting a Masters Degree in Curriculum and Instruction with an emphasis on media. This academic program was taught by the director and two teaching assistants.