6-30-1978

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

University of New Mexico

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## ANNUAL REPORTS
### 1977-78

## CONTENTS
### Volume I

<table>
<thead>
<tr>
<th>The President</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercollegiate Athletics</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The Provost</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnic Studies</td>
<td></td>
</tr>
<tr>
<td>Afro American Studies</td>
<td>15</td>
</tr>
<tr>
<td>Chicano Studies</td>
<td>20</td>
</tr>
<tr>
<td>Native American Studies</td>
<td>26</td>
</tr>
<tr>
<td>Continuing Education (includes Gallup Branch)</td>
<td>33</td>
</tr>
<tr>
<td>General Library</td>
<td>141</td>
</tr>
<tr>
<td>Graduate Studies (includes Los Alamos and Santa Fe)</td>
<td>172</td>
</tr>
<tr>
<td>Institute for Applied Research Services</td>
<td>221</td>
</tr>
<tr>
<td>Women Studies (includes 1976-77 report)</td>
<td>228</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate Provost/Dean of Faculties</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Architecture and Planning</td>
<td>262</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>265</td>
</tr>
<tr>
<td>American Studies</td>
<td>312</td>
</tr>
<tr>
<td>Anthropology</td>
<td>326</td>
</tr>
<tr>
<td>Contract Archaeology</td>
<td>334</td>
</tr>
<tr>
<td>Maxwell Museum</td>
<td>397</td>
</tr>
<tr>
<td>Journal of Anthropological Research</td>
<td>402</td>
</tr>
<tr>
<td>Biology</td>
<td>405</td>
</tr>
<tr>
<td>Chemistry</td>
<td>430</td>
</tr>
<tr>
<td>Communicative Disorders</td>
<td>476</td>
</tr>
<tr>
<td>Economics</td>
<td>487</td>
</tr>
<tr>
<td>English</td>
<td>514</td>
</tr>
<tr>
<td>Geography</td>
<td>536</td>
</tr>
<tr>
<td>Geology</td>
<td>552</td>
</tr>
<tr>
<td>Institute of Meteoritics</td>
<td>624</td>
</tr>
<tr>
<td>History</td>
<td>815</td>
</tr>
<tr>
<td>New Mexico Historical Review</td>
<td>848</td>
</tr>
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<td>Journalism (no report submitted)</td>
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<tr>
<td>Linguistics</td>
<td>853</td>
</tr>
<tr>
<td>Mathematics and Statistics</td>
<td>866</td>
</tr>
<tr>
<td>Modern and Classical Languages</td>
<td>893</td>
</tr>
<tr>
<td>Philosophy</td>
<td>923</td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>933</td>
</tr>
<tr>
<td>Political Science</td>
<td>956</td>
</tr>
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<td>Psychology</td>
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<td>Sociology</td>
<td>1003</td>
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<tr>
<td>Speech Communication</td>
<td>1019</td>
</tr>
<tr>
<td>Inter-American Affairs</td>
<td>1111</td>
</tr>
<tr>
<td>Latin American Center (includes Andean Study Center)</td>
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</tr>
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</table>

--- continued in 1977-78 Vol. II ---
THE REPORT OF THE DEPARTMENT OF INTERCOLLEGIATE ATHLETICS

July 1, 1977 – June 30, 1978

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

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

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

Overall, the Lobos finished fourth in the Western Athletic Conference all-sports standings behind Brigham Young, Arizona State and Arizona.
The UNM ski team won its seventh straight Central Intercollegiate Alpine League team championship.

UNM fielded 12 varsity teams with the elimination of water polo.

The breakdown by sport:

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

FOOTBALL -- The NCAA and ABC television rated the New Mexico football schedule the toughest in the nation for the first five weeks of the season and it cost the Lobos dearly. What made it even tougher was the fact the Lobos spent the first month of the season on the road with three of the first four opponents being ranked in the top 15 in the nation. The Lobos opened with a win at Hawaii but lost their next four in a row before breaking the losing streak in the homecoming game against Wichita State. UNM won three of its last six games to finish the season at 5-7 overall and 2-5 in WAC play; good for a tie for sixth place in the league. Fullback Mike Williams won his second straight WAC rushing championship even though he missed the final two games due to knee surgery. Mike was a unanimous first-team All-WAC selection. Tom Ryan was the All-WAC center while Max Hudspeth, the league's punt return champ, earned all-conference honors at both defensive back and return specialist. Max finished third in the nation in punt returns while Williams was 18th in the country in
rushing. Football attendance declined in 1977 with 87,858 appearing for the five home games. The largest single game crowd was 22,064 for the Wichita State contest.

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

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

GYMNASTICS -- It was not a typical Rusty Mitchell year for gymnastics at the University of New Mexico. Decimated by graduation and injuries, Coach Mitchell's gymnastics team suffered through an 0-4 dual meet record with their best tournament finish being a third in the UCLA invitational. The Lobos finished fourth in the Rocky Mountain Open and fourth while fielding only an eight-man squad in the WAC championships. The conference championship was won by Arizona State with Brigham Young and Arizona also ending up ahead of UNM. Colorado State finished last behind the Lobos. The lone bright spot for the
Lobo gymnasts was the performance of little John Bernal who won the WAC still rings title and also qualified for the NCAA meet in the parallel bars. At the national championships, Bernal earned All-America status by finishing third in the still rings and fifth in the parallel bars. In November, New Mexico also hosted another very successful international gymnastics exhibition at University Arena with the Czech National Team providing the competition.

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

SKIING -- The Lobo men's ski team combined with the women to win UNM's sixth straight Central Intercollegiate Ski League team title. Based on regional competition, the Lobos qualified five men for the NCAA nationals, which were held at Winter Park, Colorado. Representing UNM in cross-country competition was Phil Book and Filbert Montes. In the alpine competition, UNM entered Steve Yahn, Dave Sponsel and Eric Boutilier.
OUTDOOR TRACK -- The Lobo track and field team appeared headed for one of its best years ever in the spring when it emerged from the prestigious Texas Relays with the "Outstanding Team" title. However, their hopes were practically frozen solid when they entered the WAC meet in bitter cold wind at El Paso the first weekend in May. The Lobos finished a disappointing sixth in the conference meet behind UTEP, Brigham Young, Arizona State, Arizona and Utah. The biggest bright spot for the Lobos was the performance of freshman Fatwel Kimaiyo and his double wins in the 110-meter and 400-meter intermediate hurdles ranked as one of the best performances in the WAC Championships. The double victories qualified Kimaiyo for the NCAA meet at Eugene, Oregon where he placed sixth in the intermediate hurdles. Lobo Sammy Kipkurgat placed fifth in the NCAA 800 meters while Harrison Koroso was sixth in the NCAA steeplechase.

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

-5-
wire service polls and dropped out for a short while after an upset at
the hands of Southern Cal. They re-entered the polls for good in early
January after ending Nevada-Las Vegas' 72-game winning streak and
setting off on a tear that included 14 straight wins (the longest
streak in the nation at the time) and 10 straight in the WAC. Their
13-1 record to win the league was the best record ever on WAC compe-
tition and their fourth-place finish in the United Press International
poll was the highest finish ever by a WAC team. Fourteen home crowds
were over-capacity with a record 310,371 Lobo Maniacs jamming University
Arena to watch Ellenberger's charges "Make It Happen" in 1978. An all-
time record 19,044 jammed "The Pit" to watch the Lobos beat UNLV for
the second straight time. Co-captains Marvin "Automatic" Johnson and
Michael Cooper lived up to their billings and reaped a basketful of
awards. Johnson started things off on December 5 by pouring in 46
points against Kentucky State to break the 21-year-old single game
Lobo scoring record of 45 set by the late, great Toby Roybal at Carlisle
Gym in 1956 against Montana. Johnson followed that up nearly three
months later by dumping in 50 points in an electrifying performance
against Colorado State on March 2. Two days later, he hit for 32 points
as the Lobos won the conference championship against Wyoming. That gave
him 82 points for the weekend and earned him National Player of the Week
honors in Sports Illustrated. Johnson won the WAC scoring championship
and was the only unanimous selection on the All-WAC first team. Cooper,
who was a repeat All-WAC selection, became the Lobos' second first-
team All-American ever when he was tabbed by the U.S. Basketball Writers
Association. No other Lobo had received such a basketball honor since Mel Daniels in 1967. Johnson and Cooper were also All-District VII selections and combined with Willie Howard to give New Mexico its most players drafted by National Basketball Association teams. Ellenberger was runnerup in the USBWA Coach of the Year balloting and District VII Coach of the Year. The basketball press guide, edited by Sports Information Director, John Gonzales, was judged the best in District VII while the department's game program received national recognition by the College Sports Information Directors of America.

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

TENNIS -- The Lobos struggled to an 8-13 dual meet record, but went into the conference meet with high hopes riding on the shoulders of All-American Tim Garcia, the top seed in No. 1 singles. Garcia had built a 21-2 record going into the WAC meet despite suffering a twisted knee. Garcia, however, was knocked off in the first round at the WAC meet and the Lobos finished a disappointing fifth behind co-champions Arizona State and Arizona, Brigham Young and Utah. The UNM Tennis Complex, named the Ted Russell Memorial Tennis Complex,
became operational during the year thanks to the direction and hard work of head coach, Tim Russell. All the outdoor courts were completed with the tennis stadium and clubhouse yet to be constructed.

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

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

LOBO WOMEN'S ATHLETICS

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karen Jillson</td>
<td>Staff Secretary</td>
<td>July '77</td>
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<td>John Gonzales</td>
<td>Sports Info. Director</td>
<td>Sept '77</td>
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<td>Judy Klinker</td>
<td>Administrative Secretary</td>
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<td>Del Jones</td>
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<td>Swimming Coach</td>
<td>Sept '77</td>
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<td>Dean Campbell</td>
<td>Asst. Football Coach</td>
<td>Mar '78</td>
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<td>Robert James</td>
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<td>Rocky Long</td>
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<td>Bill Silverberg</td>
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<tr>
<td>Barry Svalberg</td>
<td>Asst. Trainer</td>
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### SEPARATIONS FROM STAFF

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<th>Name</th>
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<td>Don McGuire</td>
<td>Sports Info. Director</td>
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<td>Jayne Moore</td>
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<td>Bill Canty</td>
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<td>Barbara Butler</td>
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## UNM ATHLETIC FACILITIES
### USE OF FACILITIES
#### July 1977 - June 1978

<table>
<thead>
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<th>Event</th>
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<td>UNM Football - 5 games</td>
<td>867</td>
<td>87,858</td>
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<td>Arena</td>
<td>UNM Basketball - 18 games</td>
<td>763</td>
<td>310,371</td>
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<td>Lobo Field</td>
<td>UNM Baseball - 24 games</td>
<td>1,300</td>
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<td>Tennis Courts</td>
<td>UNM Tennis - 6 dates</td>
<td>88</td>
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<td>Swimming Pool</td>
<td>UNM Swimming - 2 dates</td>
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<td>UNM Track - 2 meets</td>
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<tr>
<td>Johnson Gym</td>
<td>Wrestling - 10 matches</td>
<td>282</td>
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<td>Johnson Gym</td>
<td>UNM Gymnastics - 4 matches</td>
<td>112</td>
<td>6,121</td>
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<td>Arena</td>
<td>Yugoslavia Gymnastics - once</td>
<td>38</td>
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<td>Golf Course</td>
<td>Tucker Tournament - once</td>
<td>292</td>
<td>3,595</td>
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<tr>
<td>Golf Course</td>
<td>UNM Cross Country - 2 meets</td>
<td>45</td>
<td>69</td>
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<td>Arena</td>
<td>UNM Women's Baseball - 16 games</td>
<td>380</td>
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<td>Johnson Gym</td>
<td>UNM Women's Gymnastics - 1 meet</td>
<td>31</td>
<td>55</td>
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<td>Johnson Gym</td>
<td>UNM Women's Volleyball - 14 games</td>
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<td>All Indoor Intramural Sports &amp; Johnson Gym Fields - Outdoor</td>
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<td>Intramural Track Championships</td>
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<td>NROTC Drills - many times</td>
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<td>Arena</td>
<td>Sports Car Club Races - many</td>
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<td>State H.S. Basketball</td>
<td>1,020</td>
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<td>State H.S. Football semis</td>
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<td>Swimming Pool</td>
<td>Open use for swimming &amp; Johnson Gym for recreational use</td>
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<td>South Fields</td>
<td>YAFL Games</td>
<td>6,500</td>
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<td>Arena</td>
<td>State drill team championships</td>
<td>900</td>
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<td>Arena</td>
<td>Cheerleading clinic</td>
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<td>Special Olympics</td>
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<td>Arena</td>
<td>Harlem Globetrotters</td>
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<td>Arena</td>
<td>Youth Religious Conference</td>
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<td>High School Graduations</td>
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<td>Stadium</td>
<td>American Legion - July 4</td>
<td>150</td>
<td>23,561</td>
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<td>Arena</td>
<td>PEC Concerts - 4</td>
<td>310</td>
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<td>Donated Land</td>
<td>Little League Baseball</td>
<td>8,000</td>
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<td>South Fields</td>
<td>Youth Soccer</td>
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<td>Amateur Softball Practice</td>
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<td>UNM Women's track - 3 meets</td>
<td>180</td>
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<td>Women's H.S. Track - 3 meets</td>
<td>182</td>
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<td>Stadium</td>
<td>State Women's H.S. track</td>
<td>190</td>
<td>4,631</td>
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<td>State Men's H.S. track</td>
<td>215</td>
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<td>NMAA board meetings - several</td>
<td>200</td>
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<td>Arena</td>
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<td>1978 NCAA West Regionals</td>
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<td>Event</td>
<td>Total Participants</td>
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<td>------------------</td>
<td>--------------------------------------------------</td>
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<tr>
<td>Johnson Gym</td>
<td>High School Graduations - 4</td>
<td>2,500</td>
<td>15,100</td>
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<tr>
<td>Arena</td>
<td>State Press Sportswriters Assn.</td>
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<td>Arena</td>
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<tr>
<td>Tennis Courts</td>
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<td>Track - Jogging, Etc.</td>
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<td>McDavid Room</td>
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<td>McDavid Room</td>
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<td>BCMC Administration</td>
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<td>Medical School Alumni</td>
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<td>Purchasing - Bid Openings</td>
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October 27, 1978

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

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

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

Thank you.

HB/sm
Enclosure
I. Description:

The Afro-American Studies Program at the University of New Mexico is an academic oriented entity. The primary mission of Afro-American Studies is to provide the university with academic courses. The program is also designed to provide student services such as academic and career counseling; class scheduling advisement, tutorial assistance, provide information in regards to grants and loans; etc. Another important facet of the program is community involvement. For example, the Youth Enrichment Program is an educational and recreational program designed to provide services to young children between the ages of seven through eighteen years of age. The program is in its eighth consecutive year of operation. This youth program is being utilized to train students to become future teachers.
In addition, the primary emphasis is placed on teaching both at the undergraduate and graduate levels. Although the number of courses offered through the program can provide the university with a minor and major in Afro-American Studies, the program does not have the programmatic status to do so. Also, because of a lack of budgetary funds, the research component cannot be as effective as intended. All in all, institutional and financial support of the Afro-American Studies Program is greatly needed.

II. Structure:

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

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

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

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

IV. Quality of Faculty:

The faculty of Afro-American Studies:

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

V. Support:

1. General budget - minimal

   Faculty salary

   a) Historically below average salaries

2. Youth Enrichment Program - approximately $115,000

   over 5-year period.

3. Afro-American Student Emergency Loan Fund - up to

   $50 emergency loan to students.

Financial base: Donations.
4. Staffing level
   Director - Asst. Director - Staff Secretary
   Part-time Secretary - plus
   Part-time Faculty
5. No degrees awarded
6. All level of students
7. Facilities: Academic and administrative offices, conference room, reading area.
8. At least average

VI. Future Plans:

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

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

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

I hope the above information is considered in future university planning. If additional information is needed, please contact me. Thank you.
Chicano Studies programs/departments were established throughout the United States, in particular the Southwest, beginning in the latter part of the last decade. The mission and priorities of institutions of higher learning, as well as other institutions, were seriously challenged and questioned. Many believed that these institutions were not fulfilling promises to serve all of the people, but instead were assisting in the perpetuation of deep-rooted injustices. Ethnic studies programs generally speaking were established as a result of efforts on the part of students, some faculty, and concerned community people.

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

A truly "multicultural university" cannot exist without significant participation from different people, thus Chicano Studies seeks to make its contribution to such an endeavor.
The faculty, staff, and students involved in Chicano Studies at UNM have realized for some time that the Native American, Chicano and Black people in New Mexico "offer the University of New Mexico special opportunities and responsibilities in the areas of teaching, research, and service."

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

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

Chicano Studies also serves as a cultural center for many varied activities. Cultural events such as music presentations, folklore dances from Mexico, traditional New Mexican dances, poetry readings, films, slide presentations, photograph displays, and paintings plus workshops are all part of the cultural dimension of
the Center. In addition, persons and groups from Mexico, Latin America, Spain and other places interested in and working in the area of ethnic groups visit the Center. Some do so on a regular basis. More specifically, this past year a Santero from Albuquerque, New Mexico, Juan Lucero presented a lecture and slides plus a collection of fine art works.

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

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

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

Guillermo Chavez from San Diego, California, presented several workshops throughout Albuquerque on Aztec dancing, history and folklore, and was sponsored by Chicano Studies.
The Chihuahua, Mexico, ballet folklorico performed at Popejoy Hall, UNM, La Joya and Santa Fe. Chicano Studies co-sponsored this group.

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

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

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

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

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

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

A recent positive development in the organization of a faculty committee. Generally speaking, this group will work with the coordinator, make recommendations, propose new courses or programs, serve as liaison with academic departments, the administration, and be responsible for overall development. It must be emphasized that this group is unofficial at this time, although we hope it will become official in the near future. Some faculty that have demonstrated willingness to serve are Dr. Jose Reyna, Spanish, Dr. Richard Griego, Chairperson, Mathematics and Statistics, Dr. Antonio Marquez, English, Dr. Luis Ortiz-Franco, Graduate School, Rudy Anaya, English and Dr. David Sanchez, Mathematics.
and Statistics. All of these faculty members bring to this committee very valuable expertise, experience, and talents which cannot but be a significant contribution to Chicano Studies. This is only a tentative list of people and others may be added at the appropriate time.

Hopefully this committee, once it begins work, will help to deal with certain problems in a more creative and imaginative manner.
October 18, 1978

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

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

SUBJECT: Mission and Future Plans of Native American Studies Center

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

**ACADEMIC COMPONENT**

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

The classes offered in N.A.S. are under the auspices of other departments, such as English, American Studies, Anthropology, etc. -- but only in terms of course number. N.A.S., quite realistically, feels that it should be able to continue to offer our point of view and store of information to the University curriculum, but until which time we can have our own course numbers, we must
necessarily have our courses offered as "English 400-Native American Literature," instead of "Native American Studies 400-Native American Literature".

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

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

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

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

**STUDENT SUPPORT SERVICES COMPONENT**

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

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

We have applied for two other counselor positions through the National Indian Youth Council CETA program and have been notified that we will receive these two CETA positions and can begin hiring by August 15, 1977. These positions are for one year. We want
to use one counselor position for recruitment of Native American students and the other one for financial aid counseling. The Native American population in the state is around 10% but the Native American student enrollment is only 2% so we plan to develop a student recruitment program which will be much more comprehensive than what we presently have. We have a constant need to augment our staff and have had to seek outside funding to do so.

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

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

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

Both components in our Center provide various services to the Native American community although we need to do much more. We applied for and obtained five CETA positions and have reactivated the American Indian History Project in order to develop curriculum and supplementary materials such as video and audio tapes, slide histories, etc., for use in our courses. The American Indian History Project was initially funded by the State Department of Education. These funds provided us with audio visual equipment - three black and white video tape cameras, a VTR porta-pack, etc., slide projector, photography equipment and tape recorders. The students involved in this project have developed a library of tapes, slides, photographs, etc. dealing with Native American
history in the Southwest. We plan to develop a proposal to submit to the National Endowment for the Humanities as well as other private foundations with the long range goal of creating a media archival center for the Southwest. The purpose of the American Indian History Project is many fold. We want to develop curriculum with an Indian point of view as well as provide an opportunity to the students and the community for research and to increase knowledge about the complex history of the Southwest for all people.

**FUTURE PLANS**

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

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

We are also concerned about the overall future of the Native American Studies program and center. We are eager to begin personal discussions with you as soon as possible concerning our place in the often talked about Southwest Studies Institute. We are anxious to offer ourselves for whatever meaningful dialogue might come out of such meetings. We feel that N.A.S. cannot continue in the future as a mere program in the University community. Short of becoming a department or part of a separate division within the
university, we feel the Institute proposal is the best alternative for us in the future. The cynical suggestion of absorbing our program into the already existing departments is totally repugnant to us. Not only is such an alternative repugnant, it is regressive and discriminatory.

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

There are many more things we hope to talk with you about in the immediate future and we are looking forward to meeting you personally.
DIVISION OF CONTINUING EDUCATION
AND
COMMUNITY SERVICES

ANNUAL REPORT
1977 - 1978

DR. RUPERT A. TRUJILLO
DEAN

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Office Report</td>
<td>1</td>
</tr>
<tr>
<td>Bureau of Conferences, Institutes and Short Courses</td>
<td>16</td>
</tr>
<tr>
<td>Child Development Associate/Head Start Supplementary Training Project</td>
<td>17</td>
</tr>
<tr>
<td>College Preparatory Program</td>
<td>23</td>
</tr>
<tr>
<td>Credit Classes</td>
<td>24</td>
</tr>
<tr>
<td>Gallup Branch</td>
<td>30</td>
</tr>
<tr>
<td>Harwood Foundation</td>
<td>74</td>
</tr>
<tr>
<td>Independent Study Courses</td>
<td>82</td>
</tr>
<tr>
<td>Non-Credit Courses (Community College)</td>
<td>89</td>
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<td>Non-Degree Status</td>
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</tr>
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DEAN'S OFFICE REPORT
DIVISION STAFF

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

Rupert A. Trujillo
Patricia A. Hauser
Nathaniel Archuleta
Victoria M. Burke
Christina E. Calcutt
Rosemary Chavez
Marijo Rink
Lorraine M. Gutierrez
Rena C. Griego
Lonnie G. Juarez
Carmen Maestas
Ann L. Nelson
Anthony A. Oliver
Sylvia I. Ortiz
Janet R. Parker
Sara Reed
Joyce Robbins
Eloy L. Romero
Ronald S. Shibata

Dean
Assistant Dean
Director, CDA/HSST
Clerical Specialist IV
Clerical Specialist IV, CDA/HSST
Clerical Specialist III
Program Specialist II
Clerical Specialist IV
Clerical Specialist IV, Eastern Valencia County Satellite Center
Coordinator, Eastern Valencia County Satellite Center
Clerical Specialist III
Program Specialist III
Program Specialist IV
Program Specialist III
Registrar
Clerical Specialist IV
Conference Coordinator
Director, Eastern Valencia County Satellite Center
Accounting Manager
Marge J. Soper  
Clerical Specialist V  
Deborah K. Suttie  
Clerical Specialist IV  
Roland H. Tovar  
Program Specialist IV  
Delia M. Urioste  
Administrative Secretary  
Eva M. Valenzuela  
Clerical Specialist III  

**Terminations and/or Resignations**

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

**New Employees, Replacements and/or Changes**

Victoria M. Burke, Clerical Specialist IV, June 12, 1978  
Christina E. Calcutt replaced Sandra Valdez, March 27, 1978  
Rosemary Chavez replaced Lorraine Gutierrez, June 5, 1978  
Marijo Fink replacing Maria Esquibel, July 1, 1977  
Lorraine M. Gutierrez replaced Carol Guerrero, May 24, 1978  
Rena C. Griego, Clerical Specialist IV, April 3, 1978  
Patricia Hauser replaced Milt Garrett, February 1, 1978  
Carmen A. Maestas, Clerical Specialist III, August 26, 1977  
Janet R. Parker replaced Marge Lalicker, June 5, 1978
Sara K. Reed replaced Janet R. Parker, June 12, 1978
Roland H. Tovar replaced Patricia Hauser, May 8, 1978
Eva M. Valenzuela, Clerical Specialist III, August 10, 1977
UNIVERSITY STANDING COMMITTEE

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

The Continuing Education Committee has responsibility for formulating and maintaining the general policies regarding branch campuses, continuing education programs throughout the state, the non-degree program, the independent study program, and the Community College. The Committee is specifically charged with the study of proper objectives of junior college level academic programs which are or may in the future be conducted by the University of New Mexico, and the kinds of academic curricula needed to achieve these objectives. The Committee shall also be concerned with the policy and scope of the community services programs of the University, as well as the operational policies of the University properties associated with the continuing education and community services programs, and other matters worthy of attention pertaining to the operation of the division. The Committee evaluates budgetary policy and operation of the division and advises the Vice President for Academic Affairs on these matters. It is also a function of the Committee to advise the President in regard to any new appointment of a Dean of the Division of Continuing Education and Community Services.

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

CHAIRMAN

Dr. R. Wayne Pace, Speech Communications
FACULTY REPRESENTATIVES

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

STUDENT REPRESENTATIVE

Nancy Drew Taylor

EX-OFFICIO REPRESENTATIVES

Ilse Gay, Assistant Dean, Continuing Education
John Giesler, Assistant Dean, Continuing Education
Patricia Hauser, Assistant Dean, Continuing Education
Marvin "Swede" Johnson, Vice President for Student and Campus Affairs
John Perovich, Vice President for Business and Finance
Rupert A. Trujillo, Dean, Continuing Education
Paul Vassallo, Dean, Library Services
Robert Weaver, Dean, Admissions and Records
Joseph Zavadil, Chairman, English Department
### TABLE I
(1974 - 1975)

<table>
<thead>
<tr>
<th></th>
<th># Students</th>
<th># Off-Campus Students</th>
<th># Branch Campus Students</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Extension Program</td>
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</tr>
<tr>
<td>Head Start Training</td>
<td>295</td>
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<td>295</td>
</tr>
<tr>
<td>Conferences, Institutes &amp; Short Courses</td>
<td>965</td>
<td></td>
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</tr>
<tr>
<td>Independent Study Program</td>
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<tr>
<td><strong>TOTALS:</strong></td>
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### TABLE II
(1975 - 1976)

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<tr>
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<td>Independent Study Program</td>
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<tr>
<td>College Preparatory Program</td>
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<td>8,583</td>
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### TABLE III
(1976 - 1977)

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<tr>
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<tr>
<td>Conferences, Institutes &amp; Short Courses</td>
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<td>644</td>
<td>644</td>
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<td>Independent Study Program</td>
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<tr>
<td>College Preparatory Program</td>
<td>25,681</td>
<td>6,986</td>
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<td><strong>TOTALS:</strong></td>
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### TABLE IV
(1977 - 1978)

<table>
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<td>Gallup Branch</td>
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<tr>
<td>Extension Program</td>
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<td>3766</td>
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<tr>
<td>Head Start Training</td>
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<td>72</td>
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<tr>
<td>Conferences, Institutes &amp; Short Courses</td>
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<td></td>
</tr>
<tr>
<td>Independent Study Program</td>
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<tr>
<td>College Preparatory Program</td>
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<tr>
<td><strong>TOTALS:</strong></td>
<td>25,969</td>
<td>7,246</td>
<td>2,659</td>
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TABLE V

<table>
<thead>
<tr>
<th>Community College</th>
<th>Non-Degree</th>
<th>Gallup Branch</th>
<th>Extension Classes</th>
<th>Head Start Training</th>
<th>Conferences, Institutes &amp; Short Courses</th>
<th>Independent Study</th>
<th>College Preparatory Program</th>
<th>Number of students by thousands</th>
</tr>
</thead>
</table>

TOTAL ENROLLMENTS:

- 1974-75: 20,844
- 1975-76: 25,157
- 1976-77: 25,081
- 1977-78: 25,969

- 1974-75: 1975-76
- 1975-76: 1976-77
- 1976-77: 1977-78
DEAN'S OFFICE REPORT

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

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

The following activities are examples of activities
involving the Office of Development and Dean's office.

**BRANCH COLLEGES**

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

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

**HARWOOD FOUNDATION**

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

COMMUNITY SERVICES AND TECHNICAL ASSISTANCE ON-CAMPUS

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

College Preparatory Program

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

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

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

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

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

Continuing Education in Nursing

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

UNM Law School

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

College of Fine Arts

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

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

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

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

Teacher Corps

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

COMMUNITY SERVICES AND TECHNICAL ASSISTANCE OFF-CAMPUS

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

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

Facilities for the Peanut Butter and Jelly School can no longer be provided by APS for this fine community school. Considerable time and energy were devoted to the identifica-
tion and lease purchase of a new home for PB&J. Currently, the dean is heading up a fund raising drive where the goal of $500,000 has been set.

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

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

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

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

The dean is also being considered for a White House
appointment to the National Council of Continuing Educa-
tion.

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

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

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

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

Always, efforts for more and better facilities for Continuing Education remain on the front burner.
BUREAU OF CONFERENCES, INSTITUTES
AND
SHORT COURSES
Another aspect of non-credit programs is the Bureau of Conferences and Institutes. Only thirty-three (33) activities were held this year as compared to fifty-one (51) activities in 1976-77; however, the number of participants served per activity increased from fifty-three (53) to seventy-nine (79).

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

<table>
<thead>
<tr>
<th>MONTH</th>
<th>TITLE</th>
<th>PARTICIPANTS</th>
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<tr>
<td>July 6-8</td>
<td>AAAS - Workshop</td>
<td>21</td>
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<tr>
<td>July 18-19</td>
<td>In Situ</td>
<td>130</td>
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<tr>
<td>July 21</td>
<td>4th Annual ASTD Film</td>
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<tr>
<td></td>
<td>Music Experience</td>
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<tr>
<td>Sept. 12-Nov. 28</td>
<td>Medical Terminology</td>
<td>50</td>
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<tr>
<td>Sept. 13-Nov. 2</td>
<td>Energy Conservation Code</td>
<td>130</td>
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<tr>
<td>October 4-6</td>
<td>NUEA Region VI</td>
<td>82</td>
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<tr>
<td>October 10</td>
<td>Purchasing Seminar</td>
<td>82</td>
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<tr>
<td>Sept. 30-Oct. 1</td>
<td>Family Counseling</td>
<td>120</td>
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<tr>
<td>October 29</td>
<td>Prep for Civil Service</td>
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<tr>
<td>Oct. 31-Nov. 1</td>
<td>Effective Coping</td>
<td>102</td>
</tr>
<tr>
<td>Dec. 5-9</td>
<td>Tax Practitioner</td>
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<tr>
<td>November 2</td>
<td>Sales Strategies</td>
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<tr>
<td>November 3</td>
<td>Business Growth</td>
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<tr>
<td>Jan. 23-April 10</td>
<td>Medical Terminology</td>
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<tr>
<td>January 13-14</td>
<td>Land Surveyors</td>
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<tr>
<td>February 7-March</td>
<td>Open Math</td>
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<td>February 10-11</td>
<td>3rd Annual Rocky Mountain Fuel</td>
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<tr>
<td>February 15</td>
<td>Key to the Executive Washroom</td>
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<td>March 13-17</td>
<td>Numerical Asympt.</td>
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<td>March 9-10</td>
<td>State Conference on Continuing Education</td>
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<td>March 25-30</td>
<td>Water Law</td>
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<td>April 26-29</td>
<td>AAAS</td>
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<tr>
<td>April 4-6</td>
<td>Motor Fleet</td>
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<td>April 7-9</td>
<td>Nurse Anesthetists</td>
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<tr>
<td>April 17-18</td>
<td>Effective Coping</td>
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<tr>
<td>April 13-May 18</td>
<td>Physical Assessment Skills - Nurses</td>
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<td>May 8</td>
<td>Nurse Refresher</td>
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<td>June 1-2</td>
<td>In Situ</td>
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<tr>
<td>June 9-11</td>
<td>3rd Annual Writers Conference</td>
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<td>June 25-July 28</td>
<td>La Romita - Art</td>
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<td>June 12-30-July 3-21</td>
<td>UNM Summer Dance</td>
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<tr>
<td>June 12-16</td>
<td>American Guild of English Handbell Ringers</td>
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</table>

2,522
CHILD DEVELOPMENT ASSOCIATE/HEAD START
SUPPLEMENTARY TRAINING PROJECT
The Child Development Associate/Head Start Supplementary Training project contract was renewed by the Office of Human Development, HEW in Dallas, Texas for August 1, 1977 to July 31, 1978. Under this contract, the project in the Division of Continuing Education, provided CDA training for Head Start personnel who had primary responsibility for a group of children in a child development center. There were thirty-five (35) Child Development Associates registered during the Fall 1977 semester, and a total of forty (40) CDAs registered for the Spring 1978 semester. The program for these CDA trainees consisted of a competency based, individual Early Childhood training concept which strived to enhance the trainees competencies in six (6) major areas. This is the second year that this type of program has been in operation through the Division since the transition from the traditional Head Start Supplementary Training type of program.

Throughout this past year, much of the time has been devoted to working with the CDA trainees at their centers. Trainees also travel to Albuquerque on several occasions during each semester to attend intensive training sessions here at UNM. Each CDA trainee was registered for at least seven (7) hours of credit while working towards their CDA
credential. During this contract year, a total of ten (10) CDA trainees went through the assessment process, and all were found competent. Many of those trainees, who have not completed the assessment procedures, will be taking course work during the summer semester, and will be able to complete the assessment process either Fall 1978 or Spring 1979 semesters. This will be significant to those New Mexico Head Start programs we are working with because it provided an opportunity for all to begin to meet the new regulation procedures. By 1981 each of our programs will be able to meet the new federal regulations because of the type of representation that each program was able to have during these initial years in CDA training. Table I provides information, identifying the Head Start programs served by UNM, the number of credits earned and the number of trainees receiving their CDA credentials.

Another important segment of the program provided services to Head Start personnel classified as "Protected Students." These students were able to take course work which would apply toward the degree for which they were protected. A total of fifteen (15) protected students registered during the Fall 1977 semester. Ten (10) protected students registered for course work towards their degree program during the Spring 1978 semester. Protected students were advised of their program of studies and the
courses needed for meeting those requirements for their protected degrees. Four (4) "protected students" finished all of the requirements for their BA degrees and graduated, exiting the program during this contract year.

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

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

The past year was extremely successful in terms of evolving the CDA concept and providing an opportunity for participation to many grantees. Because of this participation and the number of CDA trainees credentialed the training program is termed extremely successful in providing
effective training towards the enhancement of competencies of Head Start teachers and teacher aides working with young children.
<table>
<thead>
<tr>
<th>Head Start Program</th>
<th>CDA Trainees</th>
<th>Protected Students</th>
<th>Credit Earned</th>
<th>Credentialed CDA's</th>
<th>Graduated</th>
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<tbody>
<tr>
<td>Acoma</td>
<td>4</td>
<td>1</td>
<td>28</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Albuquerque</td>
<td>5</td>
<td>-</td>
<td>27</td>
<td>1</td>
<td>-</td>
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<tr>
<td>Eight Northern</td>
<td>4</td>
<td>-</td>
<td>15</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>El Grito</td>
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<td>-</td>
<td>61</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Dulce</td>
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<td>3</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Isleta</td>
<td>9</td>
<td>-</td>
<td>104</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Laguna</td>
<td>2</td>
<td>7</td>
<td>123</td>
<td>-</td>
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</tr>
<tr>
<td>Mid West</td>
<td>6</td>
<td>2</td>
<td>68</td>
<td>2</td>
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<td>San Juan County</td>
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<tr>
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<td>-</td>
<td>26</td>
<td>-</td>
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<tr>
<td>Zuni</td>
<td>-</td>
<td>2</td>
<td>8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Six Sandoval</td>
<td>2</td>
<td>6</td>
<td>24</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>19</strong></td>
<td><strong>536</strong></td>
<td><strong>10</strong></td>
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</table>

**Total Individuals Participating**: 63
### Summer 1978 Enrollment

<table>
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<tr>
<th>Head Start Program</th>
<th>CDA Trainees</th>
<th>Protected Students</th>
<th>Hours Registered for</th>
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<tbody>
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<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Isleta</td>
<td>2</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Mid West</td>
<td>4</td>
<td>-</td>
<td>18</td>
</tr>
<tr>
<td>Sandoval County</td>
<td>1</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Laguna</td>
<td>-</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Six Sandoval</td>
<td>-</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
<td><strong>4</strong></td>
<td><strong>57</strong></td>
</tr>
</tbody>
</table>
COLLEGE PREPARATORY PROGRAM
The College Preparatory Program is designed to assist students who: are denied admission to UNM because of academic and/or subject matter deficiencies; have been out of school for a number of years and wish a refresher course; or feel their academic skills are insufficient for a successful experience at UNM.

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

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

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

<table>
<thead>
<tr>
<th>ENROLLMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students Enrolled</td>
</tr>
<tr>
<td>75-76</td>
</tr>
<tr>
<td>76-77</td>
</tr>
<tr>
<td>77-78</td>
</tr>
<tr>
<td>343</td>
</tr>
<tr>
<td>268</td>
</tr>
<tr>
<td>689</td>
</tr>
</tbody>
</table>
CREDIT CLASSES
CREDIT CLASSES

Any course listed in the University of New Mexico Bulletin, catalog issue, may, subject to appropriate approval, be offered for credit through the Division. The Division obtains approval from departmental chairpersons for all courses to be offered for credit. Approval of teaching faculty is obtained by the Division from the departmental chairperson, and if necessary, from the dean. However, obtaining approval from the Graduate School for a person to teach at the graduate level is a departmental responsibility.

The need for a credit course may be identified in several ways: an employer may desire to have employees take a certain course; an instructor may wish to teach a certain course off campus; or Division personnel may identify a need. Course requests may be directed to the appropriate academic department, the appropriate college, or to the Division of Continuing Education and Community Services. Regardless of the initial contact, the Division is notified of the request and all coordination is accomplished by the Division.

Starting with Summer Session 1977 credit courses offered through the Division in Bernalillo County are considered resident credit. Division personnel visit the class site and have students complete all registration procedures,
including payment of fees. Registration forms and admission applications are sent to the UNM Registrar and fees are sent to the UNM Cashier. The students are then treated as regularly enrolled students with grades reported in the normal manner. The Division has encountered some problems in adapting to the rigid requirements of the total system, however, many of the problems do not appear to be unique with this Division and progress is being made in attempts to overcome them.

Those credit courses offered outside of Bernalillo County are still considered to be extension credit and all registration, fee collections, and grade reporting are accomplished by the Division.

The general policy this Division has followed is that credit courses will be established anywhere sufficient demand warrants. The figures listed in Table I indicate; location of classes, number of classes, and number of students for classes offered during Summer Session 1977 through Spring term 1978. Albuquerque is listed twice to reflect extension enrollment and resident enrollment.
<table>
<thead>
<tr>
<th>Location of Class</th>
<th>Number of Classes</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alamogordo</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Albuquerque (Extension)</td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td>Albuquerque (Resident)</td>
<td>91</td>
<td>1969</td>
</tr>
<tr>
<td>Abiquiu</td>
<td>2</td>
<td>68</td>
</tr>
<tr>
<td>Belen</td>
<td>4</td>
<td>59</td>
</tr>
<tr>
<td>Bernalillo</td>
<td>4</td>
<td>34</td>
</tr>
<tr>
<td>Camp Luna</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Chama</td>
<td>1</td>
<td>205</td>
</tr>
<tr>
<td>Cibola</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Cuba</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Dulce</td>
<td>1</td>
<td>17</td>
</tr>
<tr>
<td>Elephant Butte</td>
<td>1</td>
<td>41</td>
</tr>
<tr>
<td>Espanola</td>
<td>3</td>
<td>43</td>
</tr>
<tr>
<td>Estancia</td>
<td>1</td>
<td>17</td>
</tr>
<tr>
<td>Farmington</td>
<td>4</td>
<td>57</td>
</tr>
<tr>
<td>Gallup</td>
<td>6</td>
<td>150</td>
</tr>
<tr>
<td>Ghost Ranch</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>Jemez</td>
<td>2</td>
<td>17</td>
</tr>
<tr>
<td>Jemez Pueblo</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>Laguna</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Las Cruces</td>
<td>2</td>
<td>62</td>
</tr>
<tr>
<td>Las Vegas</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Los Alamos</td>
<td>3</td>
<td>39</td>
</tr>
<tr>
<td>Los Lunas</td>
<td>5</td>
<td>153</td>
</tr>
<tr>
<td>Maxwell</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>Mescalero</td>
<td>1</td>
<td>109</td>
</tr>
<tr>
<td>Montano</td>
<td>1</td>
<td>19</td>
</tr>
<tr>
<td>Paria Canyon</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>Pojoaque</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>Portales</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Roswell</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Santa Fe</td>
<td>12</td>
<td>223</td>
</tr>
<tr>
<td>Socorro</td>
<td>2</td>
<td>27</td>
</tr>
<tr>
<td>Taos</td>
<td>17</td>
<td>174</td>
</tr>
<tr>
<td>Tor C</td>
<td>2</td>
<td>44</td>
</tr>
<tr>
<td>Tierra Amarilla</td>
<td>3</td>
<td>33</td>
</tr>
</tbody>
</table>

Extension (Subtotal) = 35  108  1797
Resident (Subtotal) = 1  91  1969

Total :  36  199  3766

4% decrease deviation from 77-78
### TABLE II
Enrollment for Credit Classes for Last Six Years

<table>
<thead>
<tr>
<th>School Year</th>
<th>Summer</th>
<th>Semester I</th>
<th>Semester II</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>'73-'74</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'74-'75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'75-'76</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'76-'77</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'77-'78</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Total includes Resident Students*
TABLE III
FTE STATISTICS

<table>
<thead>
<tr>
<th>Year</th>
<th>Summer</th>
<th>Semester I</th>
<th>Semester II</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1974-75</td>
<td>85.1</td>
<td>167.4</td>
<td>201.9</td>
<td>227.2</td>
</tr>
<tr>
<td>1975-76</td>
<td>120.9</td>
<td>138.3</td>
<td>183.0</td>
<td>221.1</td>
</tr>
<tr>
<td>1976-77 X</td>
<td>130.4</td>
<td>112.1</td>
<td>149.1</td>
<td>195.8</td>
</tr>
<tr>
<td>1976-77 R</td>
<td>43.8</td>
<td>88.9</td>
<td>82.0</td>
<td>107.4</td>
</tr>
<tr>
<td>1976-77 T</td>
<td>174.2</td>
<td>201.0</td>
<td>231.1</td>
<td>303.2</td>
</tr>
<tr>
<td>1977-78</td>
<td>213.47</td>
<td>145.2</td>
<td>241.3</td>
<td>300.0</td>
</tr>
</tbody>
</table>

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

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

However, to get a true picture of the total number of individuals served in credit courses by the Division and off-campus, one must take into account all activities of the Division and the activities of others who offer courses off-campus. Prior to the establishment of the
branch colleges, all credit work performed off-campus was by extension. All lower division work in the branch area is now performed by the branches with upper division work by extension. Three years ago, 1974-75, Teacher Education Centers were established at various locations for upper division (and lower division, in some cases) resident credit work off-campus. Many of the students who are enrolled in Teacher Education Centers were, in the past, enrolled as extension students. Also, two years ago, 1975-76, a Graduate Resident Center was established in Santa Fe. Many of the students enrolled in the Resident Center were previously extension class students.

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

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

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

Faculty/Staff Additions and Changes:

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

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

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

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

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

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


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

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

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

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

The staff members effective July 1, 1978 are:

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

-31-
Ms. Shawna Reson: Clerical Specialist IV, Office of the Director of Nursing, Associate Degree Nursing Program

Ms. Jane Rucker: Accounting Technician

Ms. Francis Thompson: Clerical Specialist II, Learning Resources Center

Ms. Janet Trammell: Clerical Specialist V, Business Office

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

Ms. Linda Appleby: Lecturer II, Associate Degree Nursing Program

Mr. Robert Bell: Lecturer II, Anthropology

Dr. Altha Crouch: Assistant Professor, Health, Physical Education & Recreation

Dr. Emerine Glowienka: Associate Professor, Sociology and Philosophy

Ms. Catherine Jenkins: Associate Professor, Director of Associate Degree Nursing Program

Ms. Laurine Mickee Mickelsen: Associate Professor, Navajo Youth, Health, Physical Education and Recreation

Mr. Calsue E.T. Murray: Lecturer II, Elementary Education

Ms. Betty Jo Robinson: Lecturer II, Associate Degree Nursing Program

Mr. Alan Wilson: Assistant Professor, Modern Languages

Ms. Kaye Wilson: Assistant Professor, English

In addition, the Branch employs forty-six part-time Lecturers.
Enrollment Data: 1977-78

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

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>HEAD COUNT</th>
<th>FTE</th>
<th>YEARLY FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>609</td>
<td>143.7</td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>1015</td>
<td>373</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>1035</td>
<td>395</td>
<td>455.96</td>
</tr>
</tbody>
</table>

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

- Summer: 2159
- Fall: 5595
- Spring: 5925

Age statistics for 1977-78:

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

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

Table III is a graph of the Indian/Non-Indian enrollment for 1976-77:
<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>NON-INDIAN</th>
<th>INDIAN</th>
<th>PERCENTAGE INDIAN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>247</td>
<td>362</td>
<td>59.44</td>
<td>609</td>
</tr>
<tr>
<td>Fall</td>
<td>443</td>
<td>572</td>
<td>56.32</td>
<td>1015</td>
</tr>
<tr>
<td>Spring</td>
<td>408</td>
<td>627</td>
<td>60.57</td>
<td>1035</td>
</tr>
</tbody>
</table>

*No longer maintaining statistics on married/single students*
GALLUP BRANCH COLLEGE
U.N.M.

Total Yearly Enrollment

Year | 1 | 2 | 3 | 4 | 5 | 6
--- | --- | --- | --- | --- | --- | ---
Summer thru Spring
1968-69 | (Fall and Spring only)
1969-70
1970-71
1971-72
1972-73
1973-74
1974-75
1975-76
1976-77
1977-78
1978-79
1979-80

Number of Students
by thousands

-35-
GALLUP BRANCH COLLEGE
U.N.M.

Total Yearly FTE

<table>
<thead>
<tr>
<th>Year</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1968-69</td>
<td>1</td>
</tr>
<tr>
<td>1969-70</td>
<td>2</td>
</tr>
<tr>
<td>1970-71</td>
<td>3</td>
</tr>
<tr>
<td>1971-72</td>
<td>4</td>
</tr>
<tr>
<td>1972-73</td>
<td>5</td>
</tr>
<tr>
<td>1973-74</td>
<td>6</td>
</tr>
<tr>
<td>1974-75</td>
<td>7</td>
</tr>
<tr>
<td>1975-76</td>
<td>4</td>
</tr>
<tr>
<td>1976-77</td>
<td>3</td>
</tr>
<tr>
<td>1977-78</td>
<td>5</td>
</tr>
<tr>
<td>1978-79</td>
<td>6</td>
</tr>
<tr>
<td>1979-80</td>
<td>7</td>
</tr>
</tbody>
</table>

Number of FTE by Hundreds
### Total Indian - Non-Indian Enrollment

**Number by Thousands**

<table>
<thead>
<tr>
<th>Year</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973-74</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1974-75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1975-76</td>
<td></td>
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<tr>
<td>1976-77</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1977-78</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1978-79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1979-80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**KEY:**
- Indian Enrollment
- Non-Indian Enrollment

**NOTE:** Does not include upper division on-site programs.
Learning Resource Center

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

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

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

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

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

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

Financial Aids

This Spring, UNM decided that financial aids SEOG, NDSL, SSIG, and Navajo Scholarships would be written for the first time at the Branch. Previously, the paper work was sent from here to Student Aids on main campus. Included is a graph showing the financial aids distributed through this office during the past year.
Historically, Indian students take advantage of financial aid, but other needy groups do not. A special effort was made through several articles in the local newspaper and radio to inform those groups. In February representatives from the main campus helped with a financial aid workshop which was well attended by interested parents and students.

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

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

Recruiting has been one of the major activities this year using both individual and group approach. The financial aid office prepared and the Branch hosted the first "Discover
the Branch Day" which some sixty-five seniors attended. A slide and narrative program was presented to both students and high school counselors.

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

The highlight of this year's effort has been the completion of a combined catalog and bulletin. This has been the first publication of this magnitude for the Branch although brochures have been published previously.
FINANCIAL AID TO STUDENTS AT THE UNM GALLUP BRANCH 1977-1978

- Zuni tribe, Laguna Tribe, and Veteran's funded students, but it did not go through this office, so the amounts are not on the graph.
Associate of Arts (in progress or proposed)

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

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

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

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

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

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

Other programs being considered in long range plans include:

1. Hotel-Motel Management
2. Food Service
3. Mid-Management
4. Mine Maintenance

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

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

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

**Associate of Arts in Community Service Work**

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

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

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

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

Associate of Arts in Elementary Education

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

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

Associate of Arts in Arts and Science

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

Group Requirements:

I. COMMUNICATIONS: 9 credit hours. Six hours in English Writing, English 101 and above and 3 hours chosen from English 220, Speech Communication, Linguistics or Journalism.

II. HUMANITIES: 9 credit hours (not more than 6 from any one area) in Literature, including Foreign and Comparative Literature, History or Philosophy.

III. BIOLOGICAL/BEHAVIORAL SCIENCES: 6/7 credit hours
in Anthropology, Biology, or Psychology.

IV. PHYSICAL SCIENCES: 6/7 credit hours in Chemistry, Geology, Physics or Astronomy.

V. MATHEMATICS: 6 credit hours. Math 109, 110, 111, and 112 cannot be used to satisfy this requirement.

VI. SOCIAL SCIENCES: 9 credit hours (not more than 6 in any one area) in Economics, Geography, Political Science or Sociology. (Not acceptable are Political Science 250 and Sociology 280 and 281).

VII. FINE ARTS: 3 credit hours. Acceptable courses are Art History 101, Music 139, and 140.

VIII. MODERN AND CLASSICAL LANGUAGES: 6/8 credit hours to include Navajo 101 and 102 for non-Navajo speakers, Navajo 105 and 206 for native speakers of Navajo, or Spanish 101 and 102 for non-Spanish speakers and Spanish 211 for Spanish speakers.

Associate of Arts in Law Enforcement

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

a. Law Enforcement 101, 106, 107, 221, 233, 234, 235, and 236 (24 hours)

b. Communications - 6 hours

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

**Associate Degree Nursing Program**

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

1. Screening and recommending candidates for faculty appointment.

2. The program of learning.

3. Developing and maintaining satisfactory relationships with:
   a. The central administration
   b. Other departments in the institution
   c. Other agencies or institutions that provide facilities
   d. Community groups
   e. Appropriate state, regional and national agencies

4. Organizing and directing the unit in nursing in such a way that:
   a. There are closely defined relationships among faculty and between faculty and administration
b. There is appropriate distribution of work load

c. There is provision for regularly scheduled conferences concerned with the improvement of the program

d. There are reports and minutes of faculty action available for reference

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

Planning:

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

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

Community Agencies Utilized for Clinical Experiences Included:

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

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

a. Agreements insured that faculty members would have control of students and freedom to select appropriate learning experiences

b. Agreements are periodically reviewed and revised, if necessary

Implementation

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

Total enrollment at beginning of the academic year 1977-1978

Freshman 20
Seniors 12
Twelve students satisfactorily met the requirements of the institution, nursing program and graduation requirements.

Accomplishments

1. Students had the opportunity to participate in the development, conduct and evaluation of those aspects of the nursing program to which they could make a contribution

2. Faculty participated in professional and community activities for the purpose of bringing education, service and research findings together for the improvement of health care:

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

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


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

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

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

- Ghost Ranch Workshop 1978. Sponsored by S.N.A.P. Abiqui, NM
Workshop Mental Health Psychiatric Nursing Mobile Unit. Dona Ana County Occupational Education Branch. May-September 1978

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

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

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

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


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

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

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

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

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

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

3. Recruitment of a Visiting-Clinical Instructor Ms. Carol Bellistri who has an Associate Degree in Nursing and is certified as a Family Nurse Practitioner

4. Library resources were updated through:
a. Donation from the Lions Club
b. Others within the community

5. The writer with the participation of the faculty, assisted in planning the new building for Nursing, a combined use facility:
   a. Offices
   b. Classrooms, laboratories and conference rooms
   c. Space for equipment and instructional material

6. Approval of 1977-1978 application to participate in the Nursing Capitation Grant Program (amount of this award $5,897)

7. The UNM-Gallup Branch's Nursing Program became a member of the Western Council of Higher Education for Nursing (WCHEN) to provide a means for studying problems in nursing education that needs cooperative study and action.

8. The program of learning met the requirements of the parent institution for granting an associate degree and the New Mexico State Board of Nursing's criteria for eligibility to write the State Board Test Pool Examination

9. High school visitation throughout the Navajo reservation by Ms. Pita Wood, M.S.N. to provide for dissemination of materials on nursing program (November 1977)

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

11. National League for Nursing (NLN) consultation service was requested and obtained to assist our program in planning new curriculum patterns:
   a. Funding for the visits, is under the auspices of Area Health Education Center (A.H.E.C.)

12. The Nursing Advisory Committee was reorganized in order to provide the information and guidance needed to keep the program current.

13. Evaluation of teacher effectiveness was approached within the confines of three broad categories: student
evaluations of teaching effectiveness, teacher self-evaluation and colleague evaluations:

a. Evaluation of teacher effectiveness resulted in (1) a means of teacher self-improvement leading to changes in teaching approaches and implementation of course objectives (2) strengthening student-teacher relationships (3) renewed recognition of the student as an individual and as the basic reason for the existence of the educational institution and greater commitment to teaching

14. American Indian School of Medicine (AISOM) sponsored an inservice workshop (September 1977 - May 1978) for faculty members concerning the effectiveness of alternative instructional

a. strategies
b. processes
c. modes
d. materials

Recommendations

1. That instead of the nursing program being three-tier (ladder) it is developed as a sound AD Nursing Program or Community College Nursing Program with opportunities for assessing individuals for placement at a level of competency in terms of the associate degree curriculum.

2. That the library resources and instructional materials are comprehensive, up to date and available.

3. That the program of learning be organized for completion within a four-semester period in order to allow faculty to continue academic study appropriate to their responsibilities.

4. That Summer-Session be utilized for students who have potential but who need supportive learning services to succeed in an associate degree program of nursing.

5. That sabbatical leave be approved by the UNM - Gallup Branch with the clear understanding that the faculty member will at the completion of the sabbatical return to the Gallup Branch for a period of service at least as long as the duration of the leave.

6. That at least one other faculty have a master's in nursing and experience in the area of responsibility in which leadership is expected.
This year has been a very active year for the Gallup Branch Nursing Program. There are notable achievements to look back upon and stimulating objectives to look forward to.

Navajo Youth Health, Physical Education, and Recreation

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

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

Throughout the winter the program director and her associate director have been teaching recreation courses within the Associate Degree Program in Recreation. This program has brought the program to the reservation on an on-site basis and is providing a much needed service to the Navajo people and others who wish this type of two-year degree.
The director of the program, Laurine Micke Mickelsen, was honored by the Southwest District of the American Alliance for HPER at their annual convention, receiving the "Humanitarian Award." This award recognized her leadership in HPER in developing the youth program in cooperation with the BIA Division of Education and the UNM Gallup Branch.

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

**Community Services and Continuing Education**

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

It is projected that fiscal year 1978-79 will again be a year of increase. Continuing Education Unit (C.E.U.) classes will become a more sought after commodity by all
the professional people within the Branch services area. Graduate Extension classes will continue to be highly marketable items in 1978-79, as will be all Vocational Skill building programs. As in the past, Non-Credit General Interest classes will continue to be utilized by persons who wish to participate in life long learning.

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

### NON CREDIT GENERAL INTEREST

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

### VOCATIONAL SKILL BUILDING

<table>
<thead>
<tr>
<th>Class</th>
<th>Sections</th>
<th>Contact Hr.</th>
<th># Enrolled</th>
<th>Inst. Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Mechanics I</td>
<td>2</td>
<td>45</td>
<td>41</td>
<td>1,849</td>
</tr>
<tr>
<td>Diesel Mechanics II</td>
<td>1</td>
<td>45</td>
<td>12</td>
<td>540</td>
</tr>
<tr>
<td>Distributive Education – Retail Sales and Management</td>
<td>1</td>
<td>96</td>
<td>8</td>
<td>768</td>
</tr>
<tr>
<td>Physical Education Workshop for Elementary Teachers</td>
<td>1</td>
<td>15</td>
<td>11</td>
<td>165</td>
</tr>
<tr>
<td>CETA – Clerk General Office</td>
<td>1</td>
<td>1,080</td>
<td>21</td>
<td>22,680</td>
</tr>
<tr>
<td>NIYC – Clerk General Office</td>
<td>1</td>
<td>470</td>
<td>22</td>
<td>10,340</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>7</td>
<td>2,301</td>
<td>115</td>
<td>36,338</td>
</tr>
<tr>
<td>Class</td>
<td>Sections</td>
<td>Contact Hr.</td>
<td># Enrolled</td>
<td>Inst. Hr.</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------</td>
<td>-------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Basic Arrhythmias</td>
<td>2</td>
<td>10</td>
<td>31</td>
<td>310</td>
</tr>
<tr>
<td>TOTALS</td>
<td>2</td>
<td>10</td>
<td>31</td>
<td>310</td>
</tr>
</tbody>
</table>

**Graduate Extension Classes**

<table>
<thead>
<tr>
<th>Class</th>
<th>Sections</th>
<th>Contact Hr.</th>
<th># Enrolled</th>
<th>Inst. Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Education 431 &quot;The Reading Program in the Elementary School&quot;</td>
<td>3</td>
<td>45</td>
<td>77</td>
<td>3,465</td>
</tr>
<tr>
<td>Elementary Education 435L &quot;Remedial Reading Problems&quot;</td>
<td>3</td>
<td>45</td>
<td>70</td>
<td>3,150</td>
</tr>
<tr>
<td>Elementary Education 447 &quot;Teaching Reading in the Open Classroom&quot;</td>
<td>1</td>
<td>45</td>
<td>15</td>
<td>675</td>
</tr>
<tr>
<td>Secondary Education 538 &quot;Teaching Reading through the Content Field&quot;</td>
<td>2</td>
<td>45</td>
<td>49</td>
<td>2,205</td>
</tr>
<tr>
<td>Educational Administration 521 &quot;School Finance&quot;</td>
<td>1</td>
<td>45</td>
<td>24</td>
<td>1,080</td>
</tr>
<tr>
<td>Linguistics 497 &quot;Applied Linguistics for Bilingual Educators&quot;</td>
<td>1</td>
<td>45</td>
<td>18</td>
<td>810</td>
</tr>
<tr>
<td>TOTALS</td>
<td>11</td>
<td>270</td>
<td>253</td>
<td>11,385</td>
</tr>
</tbody>
</table>
### COMMUNITY SERVICES

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

*Not for FTE Equivalency
TOTAL NUMBER OF COMMUNITY SERVICES AND CONTINUING EDUCATION OFFERINGS

- 6 -

1974 1975
1975 1976
1976 1977
1977 1978

89
TOTAL ENROLLMENT

<table>
<thead>
<tr>
<th>Year</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1974</td>
<td>212</td>
</tr>
<tr>
<td>1975</td>
<td>721</td>
</tr>
<tr>
<td>1976</td>
<td>1529</td>
</tr>
<tr>
<td>1977</td>
<td>2035</td>
</tr>
<tr>
<td>1978</td>
<td>2035</td>
</tr>
</tbody>
</table>
STUDENT HOURS OF INSTRUCTION AND FTE EQUIVALENT

1974

1975

1976

1977

1978

2,508 hr.
FTE = 5.5

11,907 hr.
FTE = 26.5

32,499 hr.
FTE = 72.2

69,085 hr.
FTE = 153.5

-63-
The new College Preparatory Program, that will start in the Fall Semester, 1978, will enable students to develop or improve their academic skills so that they can be successful in their college studies. These are the courses that will be included in this program:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 100</td>
<td>Writing Standard English</td>
<td>3</td>
</tr>
<tr>
<td>English 103</td>
<td>English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>Math 010</td>
<td>Basic Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Social Science 010</td>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Science 010</td>
<td>Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>General Studies 010</td>
<td>Effective Reading &amp; Study</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Assessment of this program will focus on the progress made by students. The program coordinator will maintain individual records on every student, and will work closely with instructors to establish a system for recording and
sharing diagnostic/prescriptive data. Instructors will be encouraged to innovate, experiment, and explore with the aim of discovering/devising the most effective instructional methods. Information on similar programs at other institutions will be made available for review, comparison, and potential adaptation of appropriate components, techniques, etc.

**Satellite Classes**

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

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

**Adult Learning Center**

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

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

The GED (General Educational Development) program is designed to prepare persons for the GED examination so that they can receive a State of New Mexico High School Diploma.
Persons whose achievement is above eighth grade level are eligible for this program.

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

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

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

As a result of these programs many Gallup area adults were able to upgrade reading, writing, and math skills. The GED program enabled students to successfully complete the
GED examination. Many students were able to upgrade employment levels or become employed after study at the Adult Learning Center.
TABLE ONE

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

<table>
<thead>
<tr>
<th>Month</th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jul</td>
<td>237</td>
<td>242</td>
</tr>
<tr>
<td>Aug</td>
<td>264</td>
<td>271</td>
</tr>
<tr>
<td>Sept</td>
<td>280</td>
<td>277</td>
</tr>
<tr>
<td>Oct</td>
<td>260</td>
<td>301</td>
</tr>
<tr>
<td>Nov</td>
<td>261</td>
<td>305</td>
</tr>
<tr>
<td>Dec</td>
<td>315</td>
<td>294</td>
</tr>
<tr>
<td>Jan</td>
<td>270</td>
<td></td>
</tr>
<tr>
<td>Feb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Graduates and Dropouts are excluded from monthly totals.
TABLE TWO

*Total Ethnic Enrollment 1977-1978

<table>
<thead>
<tr>
<th>Percent</th>
<th>American Indian</th>
<th>Black</th>
<th>Hispanic</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>65%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Percentages include students enrolled at Satellite Centers
TABLE THREE

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Hours of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUL</td>
<td>453</td>
</tr>
<tr>
<td>AUG</td>
<td>418</td>
</tr>
<tr>
<td>SEPT</td>
<td>578</td>
</tr>
<tr>
<td>OCT</td>
<td>620</td>
</tr>
<tr>
<td>NOV</td>
<td>575.75</td>
</tr>
<tr>
<td>DEC</td>
<td>242</td>
</tr>
<tr>
<td>JAN</td>
<td>1549</td>
</tr>
<tr>
<td>FEB</td>
<td>1337.75</td>
</tr>
<tr>
<td>MAR</td>
<td>1538</td>
</tr>
<tr>
<td>APR</td>
<td>839</td>
</tr>
<tr>
<td>MAY</td>
<td>472</td>
</tr>
<tr>
<td>JUN</td>
<td>422</td>
</tr>
</tbody>
</table>

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

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

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

This year the Senate sponsored and/or promoted the following activities: a dance with a well known rock band from Albuquerque, a concert by the Grass Roots, a ski trip to Purgatory, a fashion show, a table tennis tournament, a reception for a local author, a picnic, a scholarship for a student attending the Gallup Branch, the purchase of a foosball table, the purchase of darkroom equipment to com-
plete the five station darkroom, the showing of current movies to students free of charge. In addition the Student Senate sponsored the Karate Club, Student Nursing Association, and the Photo Club.

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

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

Self Study Implementation

A coordinator for the self-study was appointed by the College Director on November 1, 1977. Immediately thereafter, an investigation was made of the process and execution of a self-study. This included consultations with the Assistant Director for Academic and Vocational Instruction; a thorough review of the literature devoted to accreditation guidelines and procedures; and an analysis of self-studies executed by institutions similar to the UNM Gallup Branch.
In December of 1977, the members of the faculty were organized into eight study committees for which chairpersons were selected on the basis of experience, interests, and willingness to serve.

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

1. Prepared a thorough, descriptive status report of the operations and practices at the Gallup Branch;

2. Considered the immediate future and the long-range plans for the development of the college;

3. Identified and analyzed points of strength and areas of concern in all of the college's operations and activities; and,

4. Made recommendations directed toward the improvement of the total effectiveness of the college.

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

The Harwood Advisory Board

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

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

Library Committee

Rebecca Romero, Chairperson  Taos, New Mexico
Bridget Gallegos, Vice-Chairperson  Taos, New Mexico
Jeanne Knudson, Treasurer  Taos, New Mexico
Mel Baker  Taos, New Mexico
Mildred Buchanan  Ranchos de Taos, New Mexico
Margaret Crowl  El Prado, New Mexico
Bonifacio Fernandez  
Jim Grainger  
Jean Harrison  
Robert Hawley, M.D.  
Eleanor Huff  
Genevieve Janssen  
Harvey Kalmeyer  
Michael Knight  
Jane Mingenbach  
Grace Parr  
Joe Sanchez  

Harwood Personnel

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

Personnel changes during the year:

Cynthia Kellen, acting director, resigned effective January

Director's Statement

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

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

The museum and auditorium were closed during the renovation, the museum from August 1, and the auditorium, from October 10, to date, due to renovation work in those and adjacent areas. When the renovation is completed, the permanent collection of paintings, the P. Barela wood carvings and the collection of retablos will be on display in the museum galleries upstairs. The auditorium will again be available for theater, music, poetry, lectures, and meetings.
The renovation project has transformed the community room into a children's library, which will be, with the help of town and county agencies, equipped and opened by September, 1978. With the addition of the children's library and the improved storage and lighting in the galleries, the Harwood is in a position to become again an integral and vital center for cultural events in Taos County.

Renovation Project

Of the $352,000 renovation grant, $281,600 was provided by the Economic Development Administration and $70,400 by UNM. To date, the Harwood has paid back $22,000 to UNM. An additional $30,000 has been pledged by Ben Hazard to be used to reimburse UNM.
### EXPENDITURES AS OF JUNE 1, 1978

<table>
<thead>
<tr>
<th>EDA Budget</th>
<th>Expended</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Expenses</td>
<td>$ 750</td>
<td>$ 596.17</td>
</tr>
<tr>
<td>A/E Basic Fees</td>
<td>29,400</td>
<td>24,452.00</td>
</tr>
<tr>
<td>Other A/E Fees</td>
<td>2,800</td>
<td>2,672.00</td>
</tr>
<tr>
<td>Project Inspection Fees</td>
<td>5,800</td>
<td>5,642.43</td>
</tr>
<tr>
<td>Demolition and Removal</td>
<td>39,400</td>
<td>37,358.63</td>
</tr>
<tr>
<td>Construction</td>
<td>265,350</td>
<td>212,607.11</td>
</tr>
<tr>
<td>Contingencies</td>
<td>8,500</td>
<td>0</td>
</tr>
</tbody>
</table>

- **Total** Expenditures: $352,000
- **Expended** Total: $283,328.34

**Grant**

- Expenditures as of 6-1-78: $226,662.67
- Received to date: $196,400.00
- Balance due: $30,262.67

**Matching Funds**

- Expenditures as of 6-1-78: $56,665.67
- Received to date: $22,000.00
- Balance due: $34,665.67

**Total**

- Expenditures as of 6-1-78: $283,328.34
- Received to date: $218,400.00
- Balance due: $64,928.34
The project has overhauled the heating, plumbing and electrical systems in the east half of the building, and has renovated two apartments and a studio upstairs and a caretaker's apartment downstairs. New offices, workrooms, staff lounge, special non-circulating book rooms and a children's library have all been created from existing rooms. The auditorium/gallery has received new panels and lighting and storage. The library and art room have new fluorescent lights. The complex has been made accessible to the handicapped with an elevator to the auditorium/gallery and outside ramps leading from one wing to the other. The exterior of the building has been stuccoed and the north grounds have been landscaped.

Library Report

1. Hours: Monday, 12 noon to 8 PM
   Tuesday through Friday, 12 noon to 5 PM
   Saturday, 10 AM to 4 PM
   Closed Sundays and Holidays

2. Services:
   A. Registered Borrowers 4,693
      New Cards issued during year 832
   B. Circulation: Adult 25,415
      Juvenile 8,549
      Total 33,964
   C. Interlibrary Loans:
3. Collection:
   Number of volumes in library 19,975
   Number of volumes added 1977-78 2,685
   Number of magazine subscriptions 76
   Number of newspaper subscriptions 3

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

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

   The library has published a bi-monthly column in the
   Taos News and has broadcast a weekly 15 minute program on AM
   Radio and a monthly 30 minute program on FM radio. New Book
Lists have been sent out on a quarterly basis to over 700 library patrons. Displays of library materials have been exhibited in business windows on the Plaza.

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

**Museum and Auditorium Report**

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

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

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

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

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

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

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

C. Deletions
   ANTHRO 101  General Anthropology: Origin and Antiquity of Man
   ANTHRO 102  General Anthropology: Development of Culture
ANTHRO 356  Archeology: Southwestern Archeology - Pueblo Area
ANTHRO 450  Physical Anthropology
ED.H. 301  General Safety Education
NURS 222  Health Care Delivery Systems
NURS 223  Introduction To Nursing
N.SCH.  Courses  Plane Geometry

Total Revisions 2, Additions 5, Deletions 8. This compares to 9 Revisions, 12 Additions and 8 Deletions for the last fiscal year.
### Comparison of Independent Study Statistics for Last Six Years

<table>
<thead>
<tr>
<th>Year</th>
<th># of Courses Offered</th>
<th>New Enrollments</th>
<th>Total</th>
<th>% of Increase or Decrease</th>
<th>New Mexico States</th>
<th>New Mexico Counties</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>72-73</td>
<td>86</td>
<td>310</td>
<td>264</td>
<td>574</td>
<td>38</td>
<td>22</td>
<td>6</td>
</tr>
<tr>
<td>73-74</td>
<td>84</td>
<td>235</td>
<td>221</td>
<td>456</td>
<td>32</td>
<td>26</td>
<td>6</td>
</tr>
<tr>
<td>74-75</td>
<td>85</td>
<td>164</td>
<td>192</td>
<td>356</td>
<td>32</td>
<td>26</td>
<td>6</td>
</tr>
<tr>
<td>75-76</td>
<td>87</td>
<td>178</td>
<td>222</td>
<td>400</td>
<td>27</td>
<td>24</td>
<td>5</td>
</tr>
<tr>
<td>76-77</td>
<td>94</td>
<td>251</td>
<td>393</td>
<td>644</td>
<td>30</td>
<td>27</td>
<td>7</td>
</tr>
<tr>
<td>77-78</td>
<td>91</td>
<td>278</td>
<td>471</td>
<td>749</td>
<td>32</td>
<td>26</td>
<td>3</td>
</tr>
</tbody>
</table>
The number of students actually enrolled in courses during 1977-78 including new enrollments, carry-overs, withdrawals and completions was 2087. Seven hundred and forty-nine students were enrolled in all courses during 1977-78 as compared to 644 in 1976-77. The enrollment distribution is depicted in the following chart with California, New York and Washington reflecting our overseas Armed Forces enrollees:

Geographical Distribution of New Independent Study Enrollments 1976-77

<table>
<thead>
<tr>
<th>New Mexico Counties</th>
<th>Foreign Countries</th>
<th>States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bernalillo</td>
<td>Central America 2</td>
<td>Alaska 3</td>
</tr>
<tr>
<td>Carlton</td>
<td>China 1</td>
<td>Alabama 1</td>
</tr>
<tr>
<td>Catron</td>
<td>Spain 2</td>
<td>Arizona 10</td>
</tr>
<tr>
<td>Chavez</td>
<td></td>
<td>California 27</td>
</tr>
<tr>
<td>Colfax</td>
<td></td>
<td>Colorado 2</td>
</tr>
<tr>
<td>Curry</td>
<td></td>
<td>Connecticut 2</td>
</tr>
<tr>
<td>Dona Ana</td>
<td></td>
<td>Florida 6</td>
</tr>
<tr>
<td>Eddy</td>
<td></td>
<td>Georgia 1</td>
</tr>
<tr>
<td>Gallup</td>
<td></td>
<td>Hawaii 3</td>
</tr>
<tr>
<td>Lea</td>
<td></td>
<td>Idaho 3</td>
</tr>
<tr>
<td>Lincoln</td>
<td></td>
<td>Illinois 3</td>
</tr>
<tr>
<td>Los Alamos</td>
<td>22</td>
<td>Kansas 4</td>
</tr>
<tr>
<td>Luna</td>
<td>3</td>
<td>Maryland 1</td>
</tr>
<tr>
<td>McKinley</td>
<td>36</td>
<td>Massachusetts 2</td>
</tr>
<tr>
<td>Otero</td>
<td>3</td>
<td>Minnesota 1</td>
</tr>
<tr>
<td>Rio Arriba</td>
<td>7</td>
<td>Mississippi 1</td>
</tr>
<tr>
<td>New Mexico Counties</td>
<td>Foreign Countries</td>
<td>States</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Roosevelt</td>
<td>1</td>
<td>Nebraska 1</td>
</tr>
<tr>
<td>Sandoval</td>
<td>13</td>
<td>New Hampshire 1</td>
</tr>
<tr>
<td>San Juan</td>
<td>10</td>
<td>New Jersey 2</td>
</tr>
<tr>
<td>Santa Fe</td>
<td>47</td>
<td>New York 33</td>
</tr>
<tr>
<td>Sierra</td>
<td>2</td>
<td>North Carolina 2</td>
</tr>
<tr>
<td>Socorro</td>
<td>10</td>
<td>Ohio 2</td>
</tr>
<tr>
<td>Taos</td>
<td>13</td>
<td>Oklahoma 2</td>
</tr>
<tr>
<td>Torrance</td>
<td>1</td>
<td>Oregon 1</td>
</tr>
<tr>
<td>Valencia</td>
<td>26</td>
<td>Pennsylvania 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tennessee 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Texas 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Virginia 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washington 2</td>
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<td></td>
<td></td>
<td>Wisconsin 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wyoming 4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>594</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

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

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

Santa Fe Graduate Center
1976-1977

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th></th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FTE</td>
<td></td>
<td>FTE</td>
<td></td>
</tr>
<tr>
<td>No. of</td>
<td>Under</td>
<td></td>
<td>No. of</td>
<td>Under</td>
</tr>
<tr>
<td>Enrollments</td>
<td>Grad Grad</td>
<td></td>
<td>Enrollments</td>
<td>Grad Grad</td>
</tr>
<tr>
<td>77</td>
<td>5 16</td>
<td></td>
<td>122</td>
<td>13 21</td>
</tr>
</tbody>
</table>

FTE for entire year - Graduate = 9
Undergraduate = 18.5

Santa Fe Graduate Center
1976-1977

<table>
<thead>
<tr>
<th>Enrollments</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer 1976</td>
<td>72</td>
</tr>
<tr>
<td>Fall</td>
<td>146</td>
</tr>
<tr>
<td>Spring</td>
<td>242</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grad</th>
<th>Under Grad</th>
<th>Grad</th>
<th>Under Grad</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>6</td>
<td>23</td>
<td>32</td>
</tr>
<tr>
<td>.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FTE for year = Graduate = 19
Undergraduate

Santa Fe Graduate Center
1977-1978

<table>
<thead>
<tr>
<th></th>
<th>Completions</th>
<th>Registrations</th>
<th>SCH</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 1977</td>
<td>113</td>
<td>120</td>
<td>339</td>
<td>28.25</td>
</tr>
<tr>
<td>Fall</td>
<td>157</td>
<td>190</td>
<td>471</td>
<td>39.25</td>
</tr>
<tr>
<td>Spring</td>
<td>159</td>
<td>201</td>
<td>477</td>
<td>39.75</td>
</tr>
<tr>
<td>Total for Year</td>
<td>429</td>
<td>511</td>
<td>1287</td>
<td>53.625</td>
</tr>
</tbody>
</table>

When the figures for extension class enrollments, Santa Fe Graduate Center enrollments, and Teacher Education Center enrollments are combined, it is readily apparent that there is a significant increase in the number of individuals enrolling in off-campus credit courses.
NON-CREDIT COURSES
(COMMUNITY COLLEGE)
Enrollments in non-credit courses did not change significantly in 1977-78.

Chart I
Enrollment Statistics, 1972-1977

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

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

The number of courses offered remained constant, however, many additional sections were added.
Chart II
Course Information, 1972-77

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

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

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

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

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

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

All students classified in Non-Degree status are under the jurisdiction of the Dean of the Division of Continuing Education and Community Services. All classes scheduled after 4:30 p.m. are considered evening classes. Of the total student body 16.59% were enrolled in Non-Degree status, 9.9% of the total student body were registered for evening classes and 53% of the evening students were enrolled in Non-Degree status. Non-Degree students account for 12.60% of the daytime student body. Students who make application to attend The University of New Mexico just prior to the beginning of the semester and who have missed the deadline to enroll in regular status are accommodated by enrolling in Non-Degree status. The following enrollment figures are reported for the past five years:
### Comparison of Students Registered in Non-Degree Status for the Past Five Years (Regular Semester Only)

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Students</th>
<th>% of Increase or Decrease Over Corresponding Periods</th>
<th>Total for Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973-74</td>
<td>1st</td>
<td>2852</td>
<td>17.9% Increase</td>
<td>5374</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>2522</td>
<td>4.0% Increase</td>
<td></td>
</tr>
<tr>
<td>1974-75</td>
<td>1st</td>
<td>3114</td>
<td>9.19% Increase</td>
<td>6125</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>3011</td>
<td>19.39% Increase</td>
<td></td>
</tr>
<tr>
<td>1975-76</td>
<td>1st</td>
<td>3548</td>
<td>13.94% Increase</td>
<td>7165</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>3617</td>
<td>20.13% Increase</td>
<td></td>
</tr>
<tr>
<td>1976-77</td>
<td>1st</td>
<td>3950</td>
<td>11.33% Increase</td>
<td>7667</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>3717</td>
<td>2.76% Increase</td>
<td></td>
</tr>
<tr>
<td>1977-78</td>
<td>1st</td>
<td>4538</td>
<td>14.89% Increase</td>
<td>7645</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>3107</td>
<td>19.63% Decrease</td>
<td></td>
</tr>
</tbody>
</table>

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

Furthermore, the Division has responsibility for the probation and suspension of Non-Degree students who fail to maintain the University's academic standards of a two-point average. During the 1977-78 year, seventy-two Non-Degree students were
suspended; 963 students were placed on probation; 316 students were continued on probation; and 85 students were released from probation.

Non-Degree Probation and Suspension Figures

<table>
<thead>
<tr>
<th></th>
<th>Placed on Probation</th>
<th>Continued on Probation</th>
<th>Suspended</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975-76</td>
<td>681</td>
<td>240</td>
<td>16</td>
</tr>
<tr>
<td>1976-77</td>
<td>895</td>
<td>246</td>
<td>82</td>
</tr>
<tr>
<td>1977-78</td>
<td>963</td>
<td>316</td>
<td>72</td>
</tr>
</tbody>
</table>

Many of the students in Non-Degree status are in great need of advice and counseling. Since the Division receives no support for this activity the Division merely serves as a holding house for these students.

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

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

The chart above indicates that the number of night students for the 1976-77 school year showed an increase of 18.3% from the preceding year and the 1977-78 data is expected to show a similar increase.
92% of the respondents to a User Satisfaction Survey indicated they found the library a "pleasant place to be". This unidentified youngster's smile seems to echo this sentiment. Photo by Art Plotnik.

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

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<table>
<thead>
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<th>Name</th>
<th>Position</th>
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<tr>
<td>WILLIAM E. DAVIS</td>
<td>President</td>
</tr>
<tr>
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<td>Provost</td>
</tr>
<tr>
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</tr>
<tr>
<td>MARVIN D. &quot;SWEDE&quot; JOHNSON</td>
<td>Vice-President for Student Affairs, and Alumni Relations, and Development, 1977-1978</td>
</tr>
<tr>
<td>LEONARD M. NAPOLITANO</td>
<td>Director Medical Center, Dean of School of Medicine, 1972-1978</td>
</tr>
<tr>
<td>PAUL VASSALLO</td>
<td>Dean of Library Services</td>
</tr>
<tr>
<td>GEORGE B. MILLER</td>
<td>Assistant Dean for Collection Development</td>
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<tr>
<td>ALICE S. CLARK</td>
<td>Assistant Dean for Readers' Services</td>
</tr>
<tr>
<td>DANIEL W. LESTER</td>
<td>Assistant Dean for Technical Services</td>
</tr>
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</table>
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TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>General Library Position Paper</td>
<td>1</td>
</tr>
<tr>
<td>North Central Accreditation Self-study</td>
<td>1</td>
</tr>
<tr>
<td>New Mexico Interlibrary Cooperative System Report</td>
<td>2</td>
</tr>
<tr>
<td>ADMINISTRATIVE SERVICES &amp; OFFICE OF THE DEAN</td>
<td>2</td>
</tr>
<tr>
<td>Systems and Development</td>
<td>2</td>
</tr>
<tr>
<td>Assistant to the Dean for Management</td>
<td>3</td>
</tr>
<tr>
<td>Security</td>
<td>3</td>
</tr>
<tr>
<td>Personnel Functions</td>
<td>3</td>
</tr>
<tr>
<td>Fiscal Control</td>
<td>4</td>
</tr>
<tr>
<td>Dean of Library Services</td>
<td>4</td>
</tr>
<tr>
<td>Director for Library Communications</td>
<td>5</td>
</tr>
<tr>
<td>Friends of the UNM Libraries</td>
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</tr>
<tr>
<td>COLLECTION DEVELOPMENT DIVISION</td>
<td>6</td>
</tr>
<tr>
<td>Selection</td>
<td>6</td>
</tr>
<tr>
<td>Serials</td>
<td>7</td>
</tr>
<tr>
<td>Fiscal Control</td>
<td>7</td>
</tr>
<tr>
<td>Major Purchases</td>
<td>7</td>
</tr>
<tr>
<td>Meem Collection of Historical Architectural Documents</td>
<td>8</td>
</tr>
<tr>
<td>Intra-University Library Cooperation</td>
<td>9</td>
</tr>
<tr>
<td>Divisional Special Projects</td>
<td>9</td>
</tr>
<tr>
<td>Future of Collection Development</td>
<td>10</td>
</tr>
<tr>
<td>READERS' SERVICES DIVISION</td>
<td>10</td>
</tr>
<tr>
<td>Library Orientation</td>
<td>11</td>
</tr>
<tr>
<td>Tireman Learning Materials Library</td>
<td>12</td>
</tr>
<tr>
<td>On-Line Searching</td>
<td>12</td>
</tr>
<tr>
<td>State-Wide Interlibrary Cooperation</td>
<td>12</td>
</tr>
<tr>
<td>Interlibrary Loan</td>
<td>14</td>
</tr>
<tr>
<td>Copyright and Photocopying</td>
<td>14</td>
</tr>
<tr>
<td>Inventory Control and Improved Access</td>
<td>15</td>
</tr>
<tr>
<td>Services to the Disabled</td>
<td>15</td>
</tr>
<tr>
<td>Parish Memorial Library</td>
<td>15</td>
</tr>
<tr>
<td>User Satisfaction</td>
<td>15</td>
</tr>
<tr>
<td>TECHNICAL SERVICES DIVISION</td>
<td>16</td>
</tr>
<tr>
<td>Bond Years and Backlog Elimination</td>
<td>16</td>
</tr>
<tr>
<td>Serial Backlog</td>
<td>16</td>
</tr>
<tr>
<td>Intralibrary Job Exchanges</td>
<td>17</td>
</tr>
<tr>
<td>Acquisitions Department</td>
<td>17</td>
</tr>
<tr>
<td>Serials Department</td>
<td>17</td>
</tr>
<tr>
<td>CONCLUSION</td>
<td>18</td>
</tr>
<tr>
<td>SIZE AND GROWTH OF THE COLLECTIONS</td>
<td>19</td>
</tr>
<tr>
<td>Other Processed Materials in the Libraries</td>
<td>20</td>
</tr>
<tr>
<td>READERS' SERVICES STATISTICS</td>
<td>21</td>
</tr>
<tr>
<td>LIBRARY EXPENDITURES</td>
<td>22</td>
</tr>
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INTRODUCTION

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

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

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

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

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

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

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

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

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

ADMINISTRATIVE SERVICES AND OFFICE OF THE DEAN

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

Systems and Development

Harry Broussard, Assistant to the Dean for Systems and Development, concentrated his activities on developing a major proposal for a state-wide inter-library cooperative system. This project involved organizing
seven forums at selected sites across the state to explain the system and to seek input from those attending the forums. In addition, Mr. Broussard has worked to improve statistical reporting methods, and has been instrumental in developing a strong liaison with the Data Processing and Computer Centers.

Assistant to the Dean for Management

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

Security

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

Personnel Functions

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

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

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

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

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

Dean of Library Services

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

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

"Resource Sharing in New Mexico," was the topic of Dean Vassallo's keynote address to the 22nd Annual Military Librarians Workshop in October 1978. His speech was later published in the Proceedings of the
workshop. He was also the keynote speaker at a meeting of the New Mexico Data Processing Managers Association in June 1978. At a conference on Library Education at the University of Arizona Graduate Library School, April 7 and 8, 1978, the Dean participated as a panelist in discussing, "What Should Library Education Be Doing?"

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

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

**Director for Library Communications**

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

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

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

**Friends of the UNM Libraries**

The Friends of the UNM Libraries underwent a number of significant changes during fiscal year 1977-78. Organizationally, the Friends were incorporated at the end of fiscal year 1978. Library office space was provided for the Executive Director. Joe Silva was hired as a half-time secretary in January 1978, and Don Gere became Acting Executive Director.
in February on a voluntary basis. In April, it was decided that an Executive Director must be hired, and a job description was written. Mr. Gere agreed to continue serving until a replacement is found.

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

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

COLLECTION DEVELOPMENT DIVISION

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

Selection of Materials

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

Selection of materials on a title-by-title basis takes a greater amount of time than bloc purchases or approval plans, but all of the bibliographers and selectors have been very cooperative and willing to give this time, not only because they recognize the fiscal necessity but also because they feel unanimously that title-by-title selection is
a better method for this library at this time. The bibliographers and selectors were called upon to re-evaluate many of the materials that were originally purchased as part of collections during the 1973-1977 period, in order to determine whether or not these materials should be added to the Libraries' collections. With their expertise and a great deal of time and effort, this job has now been completed.

Serials

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

Fiscal Control

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

Major Purchases

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


2. Przybyla Music Collection

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

Gifts

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

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

Nine microfiche readers were a gift from Tektronix, Inc.

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

Materials added to existing archives included additions to the T. M. Pearce Collection, the New Mexico Historical Review, Barelas Archives, Women of New Mexico and the Manual Lujan papers.
The Meem Collection of Historical Architectural Documents received architectural drawings from the firms of the following individuals:

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

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

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

**Intra-University Library Cooperation**

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

**Divisional Special Projects**

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

The Future of Collection Development

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

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

READERS' SERVICES DIVISION

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

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

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

Library Orientation

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

Orientation and Instruction Statistics

<table>
<thead>
<tr>
<th>Division</th>
<th>Students</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Dean</td>
<td>42</td>
<td>2</td>
</tr>
<tr>
<td>Reference</td>
<td>6,052</td>
<td>142</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>427</td>
<td>17</td>
</tr>
<tr>
<td>Parish</td>
<td>104</td>
<td>6</td>
</tr>
<tr>
<td>Special Collections</td>
<td>733</td>
<td>54</td>
</tr>
<tr>
<td>Total</td>
<td>7,358</td>
<td>221</td>
</tr>
</tbody>
</table>

An orientation for new teaching faculty was instituted this year, and a two-hour session was held on August 17, 1977. Members of the Library faculty were introduced and information of concern to teaching faculty was presented. Such areas as reserves for coursework, procedures for submitting book orders, and the student orientation program were discussed. A presentation on the use of ERIC (Educational Research Information Center) was sponsored by the Library during the Spring Semester.
The Special Collections Department and the Ethnic Studies Department devised a coordinated program to promote the use of their materials. Members of the teaching faculty whose areas of expertise appeared to need the resources of these departments were contacted by letter. Tours and presentations were then given. This effort coupled with personal visits to professors proved to be a highly successful method of alerting the faculty to the resources available for their use.

Tireman Learning Materials Library

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

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

On-Line Searching

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

State-Wide Interlibrary Cooperation

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

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

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

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

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

The importance of planning these cooperative projects cannot be overestimated. Plans for the coming year include two major projects which are already under way: (1) a cooperative approach is being made through the Council of New Mexico Academic Libraries (CONMAL) to seek state-wide funding for library materials, and (2) plans are underway to set up an automated circulation system in close cooperation with the Albuquerque Public Library with a coordinating committee that will permit compatibility with special libraries in Albuquerque. It is expected that specifications will be designed so that a vendor can be sought within one year.
Recommendations have been made to continue the joint-access program with the Albuquerque Public Library for another year under modified procedures. An attempt will be made whereby students at the University of Albuquerque will be served on a similarly limited basis through the public library. A comparable program will be pursued in an attempt to offer privileges to local public school teachers.

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

Interlibrary Loan

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

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

These problems were compounded here by changes in personnel, extended sick leaves and a growing backlog of unfilled requests. In an effort to improve the situation, a faculty position was transferred to this service, an additional half-time staff position was added, and more formal procedures were adopted. On January 9th, the backlog was finally eliminated.

A priority statement was prepared listing preferred sources for various kinds of materials. Procedures were set up for monitoring the number of copies borrowed under the new copyright law and for tabulating the results of these regulations so that a five-year report can be prepared for the Register of Copyrights.

Copyright and Photocopying

When the Copyright Act of 1976 (PL 94-553) became effective on January 1, 1978, a Readers' Services workshop on the new restrictions was held for all staff involved in photocopying. A handbook interpreting the guidelines was distributed. This handbook was subsequently modified as more information appeared from national associations and as actual practice dictated. The University Provost and the Faculty Library
Committee cooperated in helping to inform the teaching faculty about the Library's need to comply with the law. As a result of the involvement with the guidelines for the new law, library personnel were able to share their manuals and procedures with the deans, the Research Policy Committee and with outside groups such as the local chapter of the American Society for Training and Development.

Inventory Control and Improved Access

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

Services to the Disabled

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

Parish Memorial Library

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

User Satisfaction

Two studies were done to measure the satisfaction of the users of the Library. An evaluation was made of the new loan policy which had been in effect for one year. The results of a questionnaire indicated the need for a change in the loan period for graduate students and for a lower fine policy. Another user study was done to determine the image users have of the library. Questions were asked about the experience of users on the day they completed the questionnaire rather than their
general opinion. Response showed an 84.8 per cent positive feeling and 92 per cent finding the libraries pleasant places to use. The most significant area for possible improvement was found to be the need for longer hours.

TECHNICAL SERVICES DIVISION

The Bond Years and Backlog Elimination

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

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

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

Serial Backlog

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

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

Acquisitions Department

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

Serials Department

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

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

CONCLUSION

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

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

Paul Vassallo
Dean of Library Services
SIZE AND GROWTH OF THE COLLECTIONS

Fiscal Year 1976-1977

<table>
<thead>
<tr>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cataloged Volumes, 6-30-76</td>
<td>779,222</td>
</tr>
<tr>
<td>Volumes Added (Net) 1976-1977</td>
<td>66,848</td>
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<td>Number of Cataloged Volumes, 6-30-77</td>
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<td>Serial Titles in the Central Serials Record, 6-30-77</td>
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Fiscal Year 1977-1978

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<td>Serial Titles in the Central Serials Record, 6-30-78</td>
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## Other Processed Materials in the Libraries

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<td>Maps</td>
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<td>9,708</td>
<td>89,532</td>
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<td>2,122</td>
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<td>169,224</td>
<td>315</td>
<td>169,639</td>
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<td>Microfiche</td>
<td>456,101</td>
<td>59,460</td>
<td>515,561</td>
<td>54,631*</td>
<td>739,831</td>
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<td>Phonodiscs</td>
<td>12,815</td>
<td>1,154</td>
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<td>123</td>
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(Pamphlets and Catalogs have been dropped as a category)

* Microfiche and Microcards were combined into one category this year.
### READERS’ SERVICES STATISTICS

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<tr>
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<td>Zimmerman</td>
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<td>Parish</td>
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<tr>
<td>Fine Arts</td>
<td>143,611</td>
<td>146,296</td>
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<td>Tireman</td>
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<td>390,393</td>
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<td>Tireman</td>
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<td>Lent</td>
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1 Fine Arts and Parish only

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

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

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

5 Includes material charged out for use within the buildings proper of Zimmerman, Parish and Fine Arts.
LIBRARY EXPENDITURES
for 1977-1978

The General Library
University Funds:

<table>
<thead>
<tr>
<th>Category</th>
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<tr>
<td>Salaries</td>
<td>$1,588,815</td>
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<td>Supplies and Expenses</td>
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<td>Furniture and Equipment</td>
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<td>Travel</td>
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<td>Fringe Benefits</td>
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Non-University Funds

<table>
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<th>Category</th>
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<td>Bond Issue</td>
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<td>Basic (HEW Grant)</td>
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<td>Gifts</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>$2,844,706</strong></td>
</tr>
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</table>
It is the policy of the University of New Mexico to provide equal opportunity in all personnel actions including employment, compensation, benefits, transfers, layoffs, returns, institutionally-sponsored education, training, tuition assistance, social and recreational program and advancement, without regard to race, color, religion, sex, age, physical handicap or national origin.
The first edition of Captain Gaspar de Villaqra’s epic poem of the conquest of New Mexico published in Spain in 1610. The existence of less than twenty copies of this book is recorded. The book was given to the University by Thomas Sidney Bell, a member of the first graduating class and the first Rhodes Scholar from New Mexico. The University of New Mexico copy once belonged to the great popularizer of New Mexican life, Charles F. Lummis, whose signature appears on the title page.

Photo by Art Plotnik.

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

Photo by Jerry Teale.
The University of New Mexico

THE REPORT OF THE OFFICE OF GRADUATE STUDIES

July 1, 1977 - June 30, 1978

Bernard Spolsky
Dean of Graduate Studies

I. Administration.................................................. 1

II. Applications and Admissions................................. 2

III. Enrollment..................................................... 3

IV. Degrees Awarded............................................... 4

V. Minority Student Enrollment in Graduate Studies.......... 4

VI. Financial Aid.................................................. 5

VII. The Graduate Committee.................................... 5

VIII. Off Campus Centers......................................... 6

IX. Academic and Professional Activities....................... 6

X. The University and the Law.................................. 7

XI. Future Trends and Plans..................................... 7

XII. Index of Figure and Tables................................. 9

Appendix A. Report of the Center for Graduate Studies at
Los Alamos......................................................... 37

Appendix B. Report of the Center for Graduate Studies at
Santa Fe........................................................... 46

Appendix C. Report of the Graduate Student Association..... 48
I. Administrative.

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

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

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

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

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

Staff separations:
Sharon M. Martinez, CS IV, 8/15/77
Laura Grace C.deBaca, CS IV, 8/16/77
Staff separations (continued)
Roberta Beth Cook, CS V, 9/16/77
Eileen M. Touhy, CS V, 11/29/77
Priscilla Garth, CS IV, 5/16/78
Kathleen Daly, CS V, 6/1/78
Melody S. Groves, CS VI, 6/2/78

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

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

II. Applications and admissions.

Table 1 gives a summary of applications for admission over the past six years. While there has been a sizable increase in the number of students seeking admission to graduate programs, a considerably smaller number of students were actually offered admission. While at first glance some may regret the resulting decrease in students, one can only commend the evidence of the care the departments have shown in making sure that they admit qualified students able to benefit from their programs.

Table 2 shows by department the number of completed application and percentage of admission offers for each of the last two fall semesters. The most selective programs are those in Art, Psychology, Guidance and Counseling, and Anthropology, although it must be pointed out that a number of departments carry on extensive correspondence with students before they actually apply. This table gives some notion of where quick growth in graduate programs could be achieved if resources were available to the department to increase the size of the program and if the department felt justification in the market situation for such a growth.

There are a number of cases where a decrease in applications has been
met by increase in percentage of admission offers, something which gives rise to some concern about the possibility of a lowering of admission standards.

III. Enrollment.

Enrollment of graduate students in the University (Tables 3, 4, and 5) continued to increase in the academic year 1977-78 and is the highest ever. The rate of increase (1.9%) continues however to decline. All of the increase has been in enrollment at the Master's level (up 6.8% again this year); enrollment at the doctoral level continues to decline (-8.2%). There are some significant changes in enrollment in specific programs. In the College of Arts and Sciences, most programs have held steady, but there have been marked declines in enrollment in Economics, Latin American Studies, and Philosophy, and Chemistry has slipped back slightly from last year's gain. Enrollment in master's programs in Business and Administrative Sciences is up 21%. In the College of Education, there continued to be significant increases in Elementary Education (up 20% last year, up 6% this year), Health, Physical Education and Recreation (up 24% last year and 18.7% this year), and Special Education (up 22% last year, 10.3% this year); Educational Foundations is also up. Engineering programs are more or less stable and so are programs in Fine Arts. The Medical Science program has grown considerably (up 42.8%). The mushrooming of Public Administration continued (up 28%). At the doctoral level, there are marked decreases in enrollment in programs in American Studies, Economics, English, History, Mathematics and Statistics, and Romance Languages. Most of the College of Education programs have held fairly steady but there has been
a striking 70% increase in Health, Physical Education and Recreation. Enrollments in doctoral programs in Engineering, Fine Arts, and Medical Sciences are comparatively stable.

IV. Degrees awarded.

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

V. Minority student enrollment in the Graduate School.

Continuing effort has been made in the encouragement of the enrollment of minority students and other underrepresented groups in graduate programs. During the year, a proposal was developed for fellowships and institutional aid under Title IX of the Higher Education Act, the University supported the development of a highly competitive (but unfortunately ultimately unsuccessful) proposal for a National Science Foundation Minority Resource Center, and we joined a consortium of Western universities to share names of prospective minority graduate students. Table 9 records continuing progress in this field.
VI. **Financial aid.** (See Tables 10-14)

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

VII. **Faculty Senate Committee on Graduate Programs and Standards.**

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

The Committee met twice during the summer and held seven formal meetings during the academic year (meetings lacked a quorum on some other occasions, and some issues were decided by telephone poll). The major actions of the Committee during the year were to discuss and recommend to the Senate further details on the proposed reorganization (subsequently approved by the Senate); approve a policy on joint degree programs with the School of Law (subsequently approved by the Senate); agree to recommend an award of honorary degrees; authorize the offering
of the Master's degree in Special Education at the Santa Fe Graduate Center; agree to proposals for off-campus instruction at the graduate level for the Departments of Elementary Education and Educational Foundations; revise the policy on the admission of students without degrees; agree to the abolition of the M.A.T. degree and to consequent name changes; agree to a new drop policy for graduate students, and recommend modifications in the proposed unit review policy.

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

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

IX. Academic and Professional Activities.

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

X. The University and the law.

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

IX. Future trends and plans.

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

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

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

Table 1. Graduate School Admissions Processing

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

Table 3. Graduate Student Enrollment, Fall Semester, 1968-69 to 1977-78

Table 4. Masters Level Enrollment

Table 5. Doctoral Level Enrollment

Table 6. Masters Degrees Awarded by Unit and by Year

Table 7. Doctoral Degrees Awarded by Unit and by Year

Figure 1. Master's and Doctoral Degree Production and Graduate Student Total Enrollment, 1969-70 to 1977-78

Table 8. Ratio of Degrees Awarded to Enrollment

Table 9. Minority Group Enrollments - Fall, 1977

Table 10. Financial Aid as Distributed to Specified Minority Groups, Fall, 1977

Table 11. Graduate and Other Assistantships, 1975-78

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

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

Table 14. Graduate Student Fellowships and Grants, 1975-78
<table>
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<tr>
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<th></th>
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<td>Total Applications Distributed by Mail</td>
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<td>10,252</td>
<td>10,720</td>
<td>9,836</td>
<td>8,778</td>
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<td>3,462</td>
<td>3,537</td>
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<td>1,778</td>
<td>1,976</td>
<td>2,133</td>
<td>2,155</td>
<td>+1.03%</td>
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<td>Accepted and Enrolled</td>
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<td>1,248</td>
<td>1,274</td>
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<td>1,389</td>
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<td>Declined, No Response</td>
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<td>300</td>
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<td>395</td>
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<td>230</td>
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<td>146</td>
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<td>Percentage of New Applicants Offered Admission</td>
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<td>55.9%</td>
<td>68.1%</td>
<td>74.6%</td>
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<td>Percentage of New Admissions Offered Who Accepted and Enrolled</td>
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<td>62.3%</td>
<td>70.2%</td>
<td>64.5%</td>
<td>73.8%</td>
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<td>64.4%</td>
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<td>Completed Applications, Fall, 1977</td>
<td>Percentage of Offers of Admission, Fall, 1976</td>
<td>Percentage of Offers of Admission, Fall, 1977</td>
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<tr>
<td>Architecture</td>
<td>83</td>
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<td>American Studies</td>
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<td>Anthropology</td>
<td>146</td>
<td>134</td>
<td>38 %</td>
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<tr>
<td>Biology</td>
<td>85</td>
<td>76</td>
<td>46 %</td>
<td>43 %</td>
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<td>Chemistry</td>
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<td>68 %</td>
<td>80 %</td>
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<tr>
<td>Communicative Disorders</td>
<td>49</td>
<td>50</td>
<td>61 %</td>
<td>62 %</td>
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<tr>
<td>Comparative Literature</td>
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<td>66 %</td>
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<td>Economics</td>
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<td>61 %</td>
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<td>English</td>
<td>63</td>
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<td>79 %</td>
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Table 3. GRADUATE STUDENT ENROLLMENT

Fall Semester, 1968-69 to 1977-78

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<th>Percentage Change</th>
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| School of Business & Administrative Sciences | 170 | 189 | 106 | 176 | 186 | 86 | 238 | 234 | 105 | 242 | 262 | 148 | 294 | 319 | 147 |
### Masters Level Enrollment

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<td>Summer</td>
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Total Enrollment:
- College of Education: 1205
- College of Engineering: 895
- College of Fine Arts: 560
- Division of Public Administration: 1200
- Medical Sciences Program: 3128

Total Enrollment: 2041
Table 5. Doctoral Level Enrollment

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Enrollment figures are averages of Fall and Spring Semesters
| SCHOOL OF ARCHITECTURE | 1 (1) | 1.1 (0.8) | 4 (2) | 4.4 (1.6) | 0 (2) | - (1.6) | 5 (5) | 5.5 (4.0) | 30 (36) | 32.9 (28.6) | 91 (126) |
| ARTS & SCIENCES | 6 (6) | 0.6 (0.5) | 99 (101) | 10.1 (8.5) | 8 (11) | 0.8 (0.9) | 113 (118) | 11.5 (9.9) | 347 (446) | 35.2 (37.4) | 985 (1192) |
| American Studies | 1 (2) | 2.1 (2.3) | 4 (8) | 8.3 (9.1) | 1 (3) | 2.1 (3.4) | 6 (13) | 12.5 (14.8) | 21 (38) | 43.8 (43.2) | 46 (88) |
| Anthropology | 0 (0) | - (-) | 3 (5) | 3.2 (4.8) | 0 (0) | - (-) | 3 (5) | 3.2 (4.8) | 50 (53) | 53.2 (50.5) | 94 (105) |
| Biology | 0 (0) | - (-) | 6 (5) | 6.6 (4.7) | 0 (0) | - (-) | 6 (5) | 6.6 (4.7) | 33 (43) | 36.3 (40.2) | 91 (107) |
| Chemistry | 0 (0) | - (-) | 1 (2) | 3.2 (2.7) | 1 (0) | 1.6 (-) | 3 (2) | 4.8 (3.2) | 11 (17) | 17.5 (23.3) | 63 (73) |
| Communicative Disorders | 0 (0) | - (-) | 3 (1) | 6.4 (2.0) | 0 (0) | - (-) | 3 (1) | 6.4 (2.0) | 30 (43) | 63.8 (87.8) | 47 (49) |
| Comparative Literature | 0 (0) | - (-) | 2 (1) | 28.6 (10.0) | 0 (0) | - (-) | 2 (1) | 28.6 (10.0) | 2 (5) | 28.6 (50.0) | 7 (10) |
| Economics | 0 (0) | - (-) | 1 (3) | 2.9 (6.1) | 1 (1) | 2.9 (2.0) | 2 (4) | 5.9 (8.2) | 7 (9) | 20.6 (18.4) | 34 (49) |
| English | 0 (0) | - (-) | 4 (5) | 5.6 (6.3) | 0 (1) | - (1.3) | 4 (6) | 5.6 (7.5) | 21 (33) | 29.6 (41.3) | 71 (80) |
| Geography | 0 (0) | - (-) | 1 (0) | 10.0 (-) | 0 (0) | - (-) | 1 (0) | 10.0 (-) | 3 (4) | 30.0 (30.8) | 10 (13) |
| Geology | 0 (0) | - (-) | 1 (1) | 1.6 (-) | 0 (1) | - (1.3) | 1 (1) | 1.6 (1.3) | 11 (14) | 17.7 (18.7) | 62 (75) |
| History | 0 (0) | - (-) | 15 (9) | 18.1 (8.8) | 1 (2) | 1.2 (2.0) | 16 (11) | 19.3 (10.8) | 21 (29) | 25.3 (28.4) | 83 (102) |
| Inter-American Studies | 0 (0) | - (-) | 2 (0) | 18.2 (-) | 0 (0) | - (-) | 2 (0) | 18.2 (-) | 5 (6) | 45.5 (50.0) | 11 (12) |
| Latin-American Studies | 0 (0) | - (-) | 3 (2) | 17.6 (8.7) | 0 (0) | - (-) | 3 (2) | 17.6 (8.7) | 8 (7) | 47.1 (30.4) | 17 (23) |
| Linguistics | 0 (0) | - (-) | 0 (1) | - (125.1) | 1 (1) | 14.3 (12.5) | 1 (2) | 14.3 (25.0) | 1 (6) | 14.3 (75.0) | 7 (8) |
| Mathematics and Statistics | 2 (1) | 5.3 (2.0) | 5 (6) | 13.2 (12.0) | 0 (0) | - (-) | 7 (7) | 18.4 (14.0) | 10 (9) | 26.3 (18.0) | 38 (50) |
| Modern Languages | 0 (0) | - (-) | 30 (31) | 35.7 (31.6) | 0 (0) | - (-) | 30 (31) | 35.7 (31.6) | 41 (61) | 48.8 (62.2) | 84 (99) |
| Philosophy | 1 (1) | 2.6 (-) | 4 (4) | 10.3 (7.5) | 0 (0) | - (-) | 5 (4) | 12.8 (7.5) | 9 (8) | 23.1 (15.1) | 39 (53) |
| Physics | 1 (1) | 1.9 (1.9) | 0 (1) | - (1.9) | 0 (1) | - (1.9) | 1 (2) | 1.9 (3.7) | 5 (6) | 9.6 (11.1) | 52 (54) |
| Political Science | 0 (1) | - (4.2) | 4 (3) | 21.1 (12.5) | 0 (0) | - (-) | 4 (4) | 21.1 (16.7) | 4 (9) | 21.1 (37.5) | 19 (24) |
| Psychology | 0 (0) | - (-) | 5 (10) | 8.9 (15.9) | 1 (2) | 1.8 (3.2) | 6 (12) | 10.7 (19.0) | 19 (22) | 33.9 (34.9) | 56 (63) |
| Sociology | 0 (0) | - (-) | 2 (2) | 8.7 (9.1) | 1 (0) | 4.3 (-) | 3 (2) | 13.0 (9.1) | 11 (9) | 47.8 (40.9) | 23 (22) |
| Speech Communication | 1 (1) | 3.4 (2.9) | 2 (2) | 6.9 (5.9) | 1 (0) | 3.4 (-) | 4 (3) | 13.8 (8.8) | 24 (25) | 82.8 (44.1) | 29 (34) |

<p>| SCHOOL OF BUSINESS &amp; ADMINISTRATIVE SCIENCES | 2 (1) | 0.7 (0.4) | 24 (9) | 8.2 (3.6) | 2 (2) | 0.7 (0.8) | 28 (12) | 9.5 (4.8) | 77 (57) | 26.2 (23.0) | 294 (248) |
| COLLEGE OF EDUCATION | 17 (25) | 1.2 (1.7) | 276 (277) | 19.9 (18.9) | 51 (52) | 3.7 (3.6) | 344 (354) | 24.9 (24.2) | 802 (917) | 51.9 (62.6) | 1384 (1464) |
| Art Education | 0 (0) | - (-) | 4 (3) | 8.7 (7.5) | 1 (0) | 2.2 (-) | 5 (3) | 10.9 (7.5) | 33 (32) | 71.7 (60.0) | 46 (40) |
| Educational Administration | 0 (4) | - (1.9) | 37 (61) | 27.2 (28.6) | 26 (31) | 19.1 (14.4) | 63 (96) | 46.3 (44.4) | 47 (73) | 34.6 (33.8) | 136 (216) |
| Educational Foundations | 0 (2) | - (2.2) | 10 (11) | 10.8 (12.4) | 4 (3) | 4.3 (3.4) | 14 (16) | 15.1 (18.0) | 49 (45) | 52.7 (50.6) | 93 (89) |</p>
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<th>HISPANICS</th>
<th>AMERICAN INDIANS</th>
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<td>% of Total</td>
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<td>% of Total</td>
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<td>3.3 (2.1)</td>
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Figures in parentheses = Fall, 1976
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| College of Education   | 2 25.0 9.1                | 3 37.5            | 5.0 42.5                  | 3 37.5 5.0               | 5 62.5 2.1      | 8 0.23            |
| Art Education          | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 100 1.3         | 10 0.03           |
| Educational Foundations | 1 25.0                    | 0 0 0             | 0 0 0                     | 0 0 0                     | 1 100 42         | 1 0.03            |
| Elementary Education   | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 3 17.6 5.0      | 14 82.4 5.9      | 17 0.49           |
| Guidance & Counseling  | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 0 0 0             | 0 0               |
| Health, Physical Education & Recreation | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 3 16.7 6.5 | 0 0 0 | 3 16.7 5.0 | 15 83.3 6.3 | 18 0.52 |
| Secondary Education    | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 1 100 42         | 1 0.03            |
| Business Education     | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 0 0 0             | 0 0               |
| Home Economics         | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 0 0 0             | 0 0               |
| Special Education      | 0 0 0                     | 0 0 0             | 0 0 0                     | 0 0 0                     | 1 100 42         | 1 0.03            |
| Total                  | 1 12.5                    | 9.1 42.6          | 43.5 0                    | 20 42.6 43.5             | 27 57.4 13.3    | 47.1              |
### Financial Aid as Distributed to Specified Minority Groups - Fall 1977

<table>
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<th>Graduate Units</th>
<th>Black Americans</th>
<th>Chicanos</th>
<th>Native Americans</th>
<th>Total Minorities</th>
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Note: The table above shows the distribution of financial aid to specified minority groups at a university during Fall 1977. The columns represent different academic units or departments, and the rows represent different ethnic groups, including Black Americans, Chicanos, Native Americans, and Women. The table also includes a column for the total number of students enrolled in each unit.
Table 11. Graduate and Other Assistantships, 1975-78

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# Research Assistants and Project Assistants, 1977-78

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I. Highlights

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

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

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

Attached are the customary two tables comparing the data for the past five years. Perhaps the most significant numbers, representing the quality of performance, are the cost/SCH and percentage of SCH for graduate credit. As Table I shows these figures of merit are more favorable this year than anytime in the recent history. The $73/SCH cost was down 19% from the figure $87/SCH of the year before. By way of comparison, cost/SCH as reported by the Board of Educational Finance, Santa Fe, for UNM, NMSU and other neighboring universities are $200/SCH for graduate and $60/SCH for upper division in the science and engineering courses. And of course, the total enrollment this year being higher, than any year since 1960, seems to indicate broad appeal to the LASL personnel. Last year the resident director made 121
trips to LASL of which 108 were in the performance of the Graduate Center contract. He also participated in the research, problems and seminar type of offerings involving five students and thirteen student credit hours.
III. The Only Problem

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

Since present NNMCC students are potentially our students, as well as LASL professional staff members, there has been a great deal of cooperation from all sides. However, one problem remains unresolved. It pertains to the upper division offerings not of prime interest to a scientific laboratory (e.g., anthropology, psychology, etc.). These courses could be used as humanities and social sciences electives for bachelor's degrees. Wives of the young new Ph.D.s arriving in Los Alamos are anticipated to be the most grateful beneficiaries. One way to alleviate this problem would be by appealing to the State Legislature for funds to supplement the present offerings. Even a low budget
(estimated at around $35K annually) state supplement to the federal funds of LASL would have synergetic effects besides solving the undergraduate residency dilemma. Unless new innovating steps such as this one are taken, it is anticipated that the enrollment in the near future will take a downward turn as can be predicted from the attached graph showing four sets of hills and valleys under the previous four directors. Indeed this may be the key difference between the LASL-UNM interaction and the LLL-UCD interaction.

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

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

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

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

**TilE CENTER FOR GRADUATE STUDIES**
**LOS ALAMOS**

**Degree Recipients**

July 1, 1978

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

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

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

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

The 1978-79 budget was approved with funds for expanding the number of courses, for additional staff at the Center, for additional advertising and promotion. The end of the year came with considerable optimism for the success of the Center in the coming year.
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<th>% Spanish</th>
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<th>% Black</th>
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<td>135</td>
<td>38.5</td>
<td>38.4</td>
<td>4.1</td>
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<tr>
<td>Spring 1976</td>
<td>138</td>
<td>164</td>
<td>42.0</td>
<td>30.4</td>
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<tr>
<td>Summer 1976</td>
<td>40</td>
<td>40</td>
<td>57.5</td>
<td>25.0</td>
<td>5.0</td>
<td>0.0</td>
<td>120</td>
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<tr>
<td>Fall 1976</td>
<td>159</td>
<td>214</td>
<td>62.8</td>
<td>28.5</td>
<td>4.4</td>
<td>0.0</td>
<td>642</td>
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<tr>
<td>Spring 1977</td>
<td>202</td>
<td>245</td>
<td>54.0</td>
<td>26.5</td>
<td>3.5</td>
<td>0.0</td>
<td>735</td>
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<tr>
<td>Summer 1977</td>
<td>113</td>
<td>120</td>
<td>72.5</td>
<td>40.4</td>
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<tr>
<td>Fall 1977</td>
<td>157</td>
<td>190</td>
<td>57.0</td>
<td>32.0</td>
<td>3.0</td>
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<tr>
<td>Spring 1978</td>
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<td>201</td>
<td>57.0</td>
<td>21.0</td>
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<td>.5</td>
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<td>346</td>
<td></td>
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<td>499</td>
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<tr>
<td>Total 1977-78</td>
<td>429</td>
<td>511</td>
<td></td>
<td></td>
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<td>1533</td>
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* Includes unofficial total of 45 students registered in summer of 1975.
GSA's major goals for the 1977-78 academic year were to provide representation on University Committees and provide a forum for graduate and law student input. Margaret Moses served as President of GSA and Dave McCamey served as Chairperson of the GSA Council. The GSA Council was active this year in making budgetary decisions and creating a sounding board for University and student oriented problems. During the course of the year coffee and doughnuts were provided in the GSA lounge. Two parties were sponsored in the hopes of allowing students the opportunity to meet persons outside of their departments. The Student Research Allocation Committee met once every two weeks and allocated $9,000. GSA maintained an office upstairs in the SUB in order to provide graduate students with grant and fellowship information, college catalogues, and some housing and job referrals. GSA continued to represent graduate students on University committees, filling at least one position per committee. Problems faced this year include a proposed GSA fee cut, athletic card restrictions, parking services, mandatory final examinations, and a change in the drop-add policy.

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

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

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

Institutional Self-Study for NCA Accreditation Visit

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

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

2. The services provided through IARS are delivered primarily through the specific programs and divisions of the Institute. Each division and program is named below accompanied by a brief description of the services provided.

   a. Behavioral Research Division. Services available through BRD cover a range from needs assessment and evaluation of current programs to preparation of energy-related educational materials. A basic research goal is to develop and adapt methodologies to measure complex psychological
variables for use by laypersons. Members of the BRD staff have experience and expertise in a wide variety of substantive and methodological areas.

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

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

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

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

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

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

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

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

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

The Center has used faculty from a number of disciplines but the faculty of Health, Physical Education and Recreation has been most heavily involved. Graduate students from that
department have also been employed to carry out various activities, particularly in community program development and implementation.

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

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

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

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

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

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

j. **Gerontology Center.** The GC has been involved in basic research into the aging processes; service programs for the elderly; dissemination of information about aging to agencies, organizations, communities, and to students; and in supporting the development of an academic program on aging. Most recent activity has centered around providing workshops and training sessions oriented toward the needs of the elderly.
The Center has used a number of faculty members from various disciplines to strengthen its programs. Its primary focus is from the university outward toward the community. Upon the development of an academic curriculum within UNM, significant potential exists for using programs of the Center as a living laboratory.

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

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

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

The current director of IARS (author of this report) has been with the Institute throughout its entire life. So, the sometimes rocky history is well known. Some important aspects of that historical record will contribute to an understanding of the historical picture of the Institute and to its current status.
The acceptance of public service/applied research activity by UNM for purposes of gaining promotion and tenure is weak and varies among departments and colleges. If faculty are to be significantly involved in the work of IARS, they must be rewarded through their normal rewards system. That has been an historical problem and remains as a critical current problem. Most IARS division and program directors should have tenured appointments in the appropriate academic department. Presently less than half hold such appointments. (Not all who do not are appropriately qualified, but some are with little chance of receiving such an appointment.)

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

Despite the historical problems, the current situation of the Institute is relatively good. Over the past three years the former "Faculty Executive Committee" has evolved Into a "Faculty Advisory Committee". The members of that committee have devoted many hours to work aimed at bringing the Institute and the general faculty closer together. The continued interaction with this group will be very helpful. The public image of the Institute has improved significantly, but more general communications work needs to be accomplished so that our services are known by a larger audience. A mechanism for communicating regularly with faculty not aware of IARS activities needs to be developed. The financial base of the Institute needs to be strengthened so that a solid base of support exists for all activities.
The future of public service/applied research activities in publicly supported universities appears hopeful. The new Chancellor of the State University of New York, Clifton R. Wharton, Jr., said in one of his early public statements:

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

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

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

Finally, the UNM central administration is now at work on the problem of more adequate funding for IARS and her divisions. If that situation is resolved, the Institute should be able to function more effectively and efficiently. The majority of the funding for IARS activities should always come from outside sources, but it is not unreasonable to think that 20 to 25 percent of the total operation should be in the area of stable funding. Only then could all involved plan to make the Institute the viable force, both outside and inside the university, that it could, and should, be.
The year end report for the Academic year 1976-77, realistically begins in the Spring Semester, 1976, with the Coordinator of Women Studies, Dr. Gail Baker, making preparations for a year's leave of absence. A national search for an Acting Coordinator resulted in my selection in late July, 1976. The months between search and selection are adequately recorded in other offices of the University. It is perhaps important to indicate that after mounting a search cognizant of current affirmative action guidelines, the final selection was marred by dissent from within the program and legal action externally. There was some concern that my arrival would be "clouded" by this ordeal. The fact that I did not feel personally "clouded" by this problem is demonstration of the good faith in which the University and her officers conducted the long negotiations.

At the time of my arrival on August 10th there were indeed, hostile camps within the Program. My mandate obviously was to listen, learn, and begin the process of re-establishing communication while conducting the day to
day operation of the program and retaining the basic integrity of a program with a well respected national reputation. Thus the early weeks of the semester were a balancing act of listening to people express their concerns about the program while pulling together the remnants of the Women Studies Committee and making staffing and program decisions in order to begin school.

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

**Faculty and Staff**

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

Ann Nihlen, half-time appointment
Meredith Freidman, part-time appointment
Sally Dunn, part-time appointment
Charlotte Vigil, replaced by Perlinda Shelton.

Women Studies Secretary, Committee Secretary

Students

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

The second area of concern which faced the "remnant" committee was the issue of where to "house" the Women Studies Program. Prior to my arrival at UNM I had been informed that a general reorganization of the major administrative offices of the University would eventually lead to reevaluation of where to academically locate the Women Studies Program, as well as the other Studies Programs. In the Fall of 1976 the program reported to the Assistant to the Provost, officially to the Office of the Provost. At the time of my arrival on the campus the decision to relocate the program seemed imminent. Thus discussion was immediately undertaken between what remained of the Women Studies committee and a representative from the provost's office. At that point it was strongly believed that we would not be permitted to continue to report to the Provost as an autonomous unit. Our alternatives were to report to
the Associate Provost, (not the Assistant to the Provost) or remove the program from the central administrative offices altogether and report to the College Dean (either Arts & Sciences or Education) as a unit. Each of the choices had strong and weak points depending on the goals of the Women Studies Program itself, and each choice would involve further negotiations between the chosen unit and the Program in terms of budget, staffing, course numbers and internal autonomy. Although the committee could discuss the choices more information was clearly needed before a decision could be made.

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

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

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

As we examined the program from the national perspective resulting from our conversations with Howe we could clearly see several strong educational tracks or areas within the program. With the support of courses offered by the English faculty (many of them termed Adjunct Faculty in Women Studies as a result of their interest in and service to the program) there is a strong segment of the program devoted to literature by, about and for women. Women and Literature, Asian Women in Literature, Irish Women in Literature, Contemporary Women Writers, are representative course titles. By routinely featuring one of these courses our students have a variety of offerings in English over a period of time. History has been and will continue to be a strong area with excellent student interest due to the leadership and teaching of Dr. Jane Slaughter in the History Department. Education is another UNM Program strength with courses offered both by the departments within the College of Education and supplemented by courses funded by Women Studies.
Impacting the total educational system through teacher education has been a professed goal of the Women Studies movement since its inception in the early 70's. Thus the UNM program by identifying its strengths in Education could make decisions for expansion of this area during the 1976-77 year and formulate cohesive plans for the future. Interested faculty in Educational Foundations and Women Studies met in an attempt to evaluate the courses we offered and place them in sequential order to eliminate a "hit-and-miss" approach for the future. At the 200 level we offer "Women and Self-Education," at the 300 level, "History of Women in Education," and "Sexism and Education," at the 400 level, "Feminist Issues in Counseling," and "Psychology of Women," and at the 500 level plans were made for a new research seminar on sex stereotyping. Ideally this sequence would lend itself to a future minor in Women Studies with an emphasis on Education. Participating in this discussion were Mary Harris, Vera John-Steiner and Candance Garrett from Educational Foundations and Ann Nihlen and myself from Women Studies.

The schedule of courses for the 1976-77 academic year had been set by the 75-76 committee and only minor changes were made due to changing enrollment or staffing patterns, see appendix A for this list. The plan to develop a Women
Studies Minor had not previously been on the 1976-77 committee's agenda but as the evaluation with Howe culminated and as a skeletal plan for 1977-78 developed the committee could visualize the need for a Women Studies Minor. Interested committee members and Adjunct Faculty formed a sub-committee to formulate such a possibility. The ad hoc committee had almost completed its report for such a minor when the work was interrupted by the general campus moratorium on new courses, programs, or divisions. It would be the Acting Coordinator's strong recommendation that this should be pursued in the coming years under the new Provost.

Discussion and evaluation of the Program's strengths lead us also to assess the weaknesses. Perhaps the most glaring weakness was in the area of minority women. Courses relating to the concerns of minority women, although offered more routinely at UNM than on other campuses, still do not adequately meet minority women's needs or the general needs of all women in the University. We expressly lack minority women faculty teaching in all facets of the program. Immediate steps taken to remedy the situation involved the addition of the course "Political Economy of Women of New Mexico" Semester II, 1977, team-taught by Dr. Ann Nihlen and Ms. Junella Haynes. An attempt also was made to encourage the other studies programs (Black
Studies, Chicano Studies, Native American Studies) to offer courses that they had developed and to continue to facilitate enrollment in these courses by advertising and promoting them within our program. Discussion on long-range planning for eliminating this weakness included plans for recruitment of faculty, development of new curricula and a commitment to offer a specific course on minority women and role expectations during the 1978 Spring semester.

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

Complicating the orderly expansion of courses designed to either support and strengthen women's educational needs or raise the general level of knowledge about women for the entire campus is the awkward and frustrating process by which the program must seek sponsorship of its courses. After the time and talent of the committee has been used to determine the needs of the program the Coordinator/Acting Coordinator becomes a petitioner who must identify
a department under which a course might logically fall. Finding such a department, the Coordinator and the Department chair began the lengthy process of establishing the course and approving the instructor through the Departmental channels for course approval. Once a course has been established this process still must be followed each semester in order to verify the instructor and guarantee the continued offering of the course. As a former Coordinator of a program with autonomous course numbers I found the UNM process tedious, time consuming and frustrating! Although many department chairs were supportive and often facilitated the process both people spent too much time duplicating paperwork and going to meetings. This could have been used to better educational advantage. Occasionally the process was a hostile one. This occurred when the Women Studies Program sought to initiate a course directly related to an examination of women's lifestyles and oppression which conflicted (or appeared to conflict) with more entrenched viewpoints. An example of this process was the long discussion and meetings which preceded the offering of the Lesbian Matrix course. Ostensibly the negotiations resulted in better understanding of the goals of the course by the American Studies Committee but it was time spent by everyone which could have been used in more productive ways. If the course offerings were
the total responsibility of the program then individual responsibility for a controversial course would rest primarily between the Women Studies Program and the University (i.e. Supervisory Unit) eliminating the cumbersome relationship with a "parent" department.

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

Semester II was dominated by the selection of faculty for Fall, 1977. Following the basic pattern established in the program over the years, a faculty member from the department which houses a specific course was asked to serve on the interview committee. Those faculty members were: Candance Garrett (Educational Foundations) for Sexism in
Education, Women in Self Education; Harry Stumpf, (Political Science) for Women in the Law; Theresa Gallion (Gereontology Center) for Half-time Instructor Committee. Faculty members of the Women Studies Committee served as chairpersons for each committee. Students applied to participate in the committee of their choice. Final selection of the new faculty was made by Women Studies Committee from Search Committee recommendations.

The concluding events of Semester II were a result of Associate Provost Clinton Adams' memo of February 15, 1977 which invited applications for special allocations for "...Budgetary Support for Selected Fields of Excellence."
The application was submitted by the March 7 deadline and late in April rumors began to circulate through the program that we indeed had been awarded money to support our request for a Women Studies Scholar. It was appalling to me as an outsider the number of times that official information reached the program through unofficial channels. This time rumor proved to be correct and the Program was immediately thrown into a discussion as to how to use the money in light of the rapidly concluding school year. The decision was made to attempt to find someone who fit our needs (as described in the proposal) who could come for the entire year. If this proved impossible we would elect to find someone of national prominence for the Spring semester, 1978, using less of the money allocated to us but concentr-
trating the funds needed for such a purpose. Following a national search two candidates emerged. The search, conducted after school ended in the Spring, resulted in Dr. Joyce Trebilcot from Washington University, St. Louis, Missouri being accepted both by the Program and the Philosophy Department as the Scholar choice. Our second candidate, Joan Roberts, was not interviewed as she had to withdraw due to personal/professional decisions on her own campus.

The 1976-77 year also found the Women Studies Program continuing its involvement in the National Women's Studies Association. During the Fall the program took the lead nationally in holding a lottery for the convention delegates to the founding convention in San Francisco in January of 1977. By holding a lottery the Program was attempting to get women involved as delegates who were not simply confined to the UNM program. A joint effort by delegates and UNM program members raised the money to send all seven delegates to the convention. Delegates from New Mexico, Arizona, Colorado, and Utah comprise what is the Rocky Mountain - Southwest regional unit. Because of assigned regional responsibilities to chair the charter sessions for the convention and because the New Mexico delegation bore a large responsibility for that leadership the UNM Women Studies Program was active
and visible in the founding convention in both charter sessions and caucus organization. It was a valuable experience as the delegates experienced Women Studies on a national scope and returned to this area ready and willing to share that knowledge. Continued support by the University of New Mexico for the Program's involvement in the infant organization of the National Women Studies Association focuses attention on New Mexico's strong educational opportunities for women.

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

As I began to unscramble the pieces I think the following observations should be made. The program is one of the models within the United States that began as a result of student (usually graduate student) pressure for expansion of women's educational needs within the University. With the support and active involvement of key junior faculty the group formed a collective and moved into the process of establishing a program. It fit no previous mold of the
University (at least within the current generation's memory) and operated in a non-traditional spectrum. All of the seeds for conflict were there. Even Women's Studies programs formed in a more traditional manner with tenured faculty sitting on the committees, governed in traditional academic fashion, met with conflict. The relatively few, collectively organized programs, met with enormous resistance. UNM fit this model and then abruptly switched to a faculty governed program in the Fall of 1973. As a result there remains a bubbling below the surface, resentment, anger, personal jealousies, and feelings of betrayal. Traditional academic departments harbour many of the same personal jealousies and problems but containment of them is built into the system in the way of tenure, promotion, etc. No such control realistically exists in Women Studies, nor do I advocate it! However it does make the governance of a program difficult as defined in traditional ways.

The tension within the program was intensified when the need for strong leadership and academic priorities forced the Coordinator to make choices which did not fit former collective guidelines. The Coordinator could not hope to alleviate all of the pressure. The need to establish firm standards and monitor the program's progress within the University left her little time to deal with the
growing lack of communication and hostility. All of this surfaced as the Acting Coordinator was selected in the Spring of 1976.

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

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

In an overview of the 1976-77 year the program did grapple with both the internal and external concerns and it did move ahead. It moved ahead despite the political climate of the University and the daily frustrations within the program caused by not being in mainstream communication channels. My own personal disappointment is that we did
not have time to establish programs such as a "math anxiety project." We did however continue our active participation in recruiting re-entry women, and began to work in this area with the Women's Center.

As both an outside observer and an inside participant this year, the Program appears to me to be accomplishing many of its goals. My own feelings about the Program at UNM is best summed up in the words of one of our respected Adjunct Faculty who remarked to me that "Women Studies is the only thing in the '70s that is creating viable alternatives in education and the UNM Program is doing so in a sound academic way." These sentiments are echoed in the Florence Howe report on a national level and it is exciting to know that the UNM Program is part of that picture.
During the year of the International Women's Year (IWY) conference in Houston, Texas, an event many observers have described as a coming-of-age for American women—politically, economically, socially and culturally, it is appropriate that developments for the Women Studies Program at the University of New Mexico involved a broadening of its curricular strengths and a continued reaching out to serve diverse groups within the university community. It is also significant that women's movement activities at UNM and in Albuquerque have grown over the past few years to the point that Women Studies is now one of many feminist projects in this region; thus the program works in a more supportive context and benefits from increased opportunities for cooperation. At the same time, the official place of Women Studies in the university has remained unchanged: as a program attached to the Provost's office it functions in an unhealthy limbo. Footnote one on UNM's organizational chart, "Temporary assignment to area indicated pending further study and later decision," symbolizes its uncertain status (Faculty Handbook, Edition of 7/1/77, p. 19A).

In the first section of this Annual Report I will discuss curricular developments and special projects; in the next part on plans and recommendations I will consider the structural changes recommended by the Women Studies Committee and submitted
to the Provost in March 1978. However, since difficulties in scheduling and staffing courses result, in large measure, from the program's dependence on other departments and programs, curricular developments and questions of structure can only be separated for the purpose of discussion.

**Curriculum**

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

Women in Sports, designed by Dr. Hollis Elkins, the half-time Women Studies instructor, provided a chance for varsity athletes, PE majors and other interested in this topic to investigate the changing status of women and sports in American culture. Title IX, of course, gave added relevance to this study. Many of these students would not be attracted to other Women Studies courses. Similarly, Women as Photographers (Fine Arts 494), the first Women Studies funded course in the College of Fine Arts, appealed to many art majors who had had little previous contact with Women Studies. Joyce Kozloff, a visiting professor in the Art
Department, offered two sections of Art, Feminism and Politics, a seminar that virtually revolutionized the consciousness of female art students. The success of this seminar and the other courses mentioned above reinforced our conviction that it is vital for Women Studies courses to be given in individual colleges so that credit may be applicable to students' own majors.

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

Though the program's chief emphasis is undergraduate courses, it continued to offer several excellent graduate courses and seminars: first semester, Research on Women and Aging, team-taught by Jean Rogers and Teresa Gallion (Gerontology Center), Interdisciplinary Feminist Research, Helen Bannan (American Studies) and Sexism in Education, Mary Dudley (Maternity and Infant Care Project); second semester, Psychological Development
of Women, Vera John-Steiner and Research Seminar on Sex-role Development, Candace Garret Schau (both Educational Foundations). After repeated delays because of the university-wide moratorium on new courses, Professor John-Steiner's course was approved for regular status in the spring.

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

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

One needs to read through the thick file of memos from November through January to appreciate the bizarre and arbitrary character of the initial rejection and the eventual approval. Throughout this period, students and the proposed instructor dangled in uncertainty, and the coordinator spent hours attempting an equitable resolution of the situation. The factors bearing on this episode are tangled in the underbrush of the relationship of Women Studies to American Studies, further complicated
by internal American Studies politics. While La Mujer is a fine American Studies course in principle, the present attitude of the American Studies Department to Women Studies, the unit paying for the course, makes American Studies a poor "home" for so important a course. It would be far better for La Mujer Chicana to be a Women Studies course.

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

In addition to the usual end-of-semester evaluations, the Women Studies Committee decided to conduct a mid-semester review that was partially tailored to individual courses. The form included a Student Interest Profile. Both of these have been useful in planning the program. On the whole, however, evaluation of courses and the program needs close attention, and I would recommend that a sub-committee be formed to develop a finer instrument of evaluation. As Marcia Guttentag and her co-authors
point out in their report, "Evaluating Women's Studies: A Decision-Theoretic Approach," the most pertinent question for most Women Studies teachers and administrators "is not just 'Is this program a success?' but also 'How can I improve the program?' or 'How can I best meet the program goals of students, faculty, and administrators?'" (Signs, 3, No. 4 (Summer 1978), 884-890). Women Studies at UNM could profit from the use of a model such as that described in this report.

Special Projects

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

The New Mexico Women's Forum, partly funded by the Greater UNM Fund, held the first weekend in March, presented workshops and special events focused on the Houston resolutions as well as other topics of vital concern to New Mexico women. All workshops were open to everybody in the community, with free childcare.
provided at the Women's Center. Student participants in Seneca Falls South joined by others interested in the project worked intensively from late November through February planning the Forum. Naturally, they made mistakes, and there was justifiable criticism because no ethnic people were members of the organizing group; but on the whole I think most people associated with Women Studies and participants in the Forum concluded that it was a valuable project. It was an event directed toward the wider Albuquerque community that succeeded in creating a place and a time for informed consideration of crucial issues.

The other special project supported by the Greater UNM Fund, a two-day Workshop on Math Anxiety, was held in April. Workshop leaders drawn from Albuquerque high schools as well as UNM attended a training session conducted by Rita Liff, a mathematics and computing science teacher from the Lawrence Hall of Science, University of California, Berkeley. The planning group included Laura Cameron (Mathematics), Michele Diel (Continuing Education), Lois Kieffaber (Physics), Phyllis Hersh (Engineering Research) and Women Studies Committee members Catarina Kiefe (Mathematics), Nancy Martin (Computing and Information Science) and Gail Baker. According to some researchers the measured sex differences in mathematics "imply substantial restrictions on the part of women in mathematics and technological development" and as such they "represent not only a 'women's problem' but a serious and urgent issue for the entire scientific community."
Math anxiety is a small part of this problem, and obviously a short workshop can do little more than call attention to it. A real solution will involve a commitment of university resources similar to those now devoted to deficiencies in reading and writing. Women's participation in science presents an equally urgent issue for the scientific community, one that the National Science Foundation has recognized and begun to act on. The coordinator worked with Professor Nancy Martin and Jane Gillespie (Biology Department) to submit an NSF proposal for a state-wide two-day workshop on Careers in Science to be held at UNM in March 1979. Women Studies will contribute clerical assistance from its work-study students.

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

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

In March 1978 Proposed Changes in UNM Women Studies Program and a statement of Governance were sent to the Provost for review. Changes suggested by the Provost were incorporated in the final version, and both documents were approved by the Women Studies
Committee: they speak for themselves.

Proposed Changes in UNM Women Studies Program

March 1978

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

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

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

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

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

President Davis has stated that "we must recognize and accept our responsibility to design and implement programs which strike at the total problem of denial of equal access to opportunity rather than simply overt manifestations." The Women Studies Program is one such effort: it is intended to help women realize "their full potential" and achieve "equality within the institutions of society" (quotes from Faculty Handbook, p. 56B). To carry out these purposes we believe that the structural changes recommended above are imperative for Women Studies.
The Women Studies Committee is the governing body of the Women Studies Program. In conjunction with and through the coordinator of Women Studies, it makes recommendations concerning the program at UNM. The committee proposes new courses or programs in Women Studies to appropriate departments, divisions or units within the university and serves as a liaison between the Women Studies Program and departments and divisions regarding both curricula and staff, and is responsible for planning the overall development of the program.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Selected by Women Studies Committee to teach specific new course.
++ Co-instructor, 1975-76; developed course with N. Martin.
Perlinda Shelton continued as Department Secretary, working half-time from October 1 through the end of first semester. Victoria Prinz, who had replaced Ms. Shelton while she was on maternity leave in August and September, served as half-time Secretary October 1 through December 31. They both contributed to the program in myriad ways above and beyond the requirements of the job. Shannon Proctor and Sarah Stanley, Program Assistants employed through UNM's work-study program, devoted themselves to routine but essential jobs and special projects: their help to everybody connected with Women Studies was invaluable.

Separations

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

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

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

Relations with Other Organizations

Because Women Studies grew out of the contemporary women's movement, programs across the country try to maintain close ties with university and community women's organizations. The program at UNM is no exception. The Women Studies Student Association, formed last year, continued to meet regularly at the Women's Center. It selected student members of the Women Studies Committee in the fall and sponsored several events: the August 26th Rally commemorating the adoption of the Suffrage Amendment in 1920, an Open House, the New Mexico Women's Conference. Other campus groups the program worked with include the Women's Center, the Women's Law Caucus.
and the Returning Students Association (co-founded by a Women Studies Committee member in 1976-77).

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

Locally, the program has assisted—and been helped by—a number of feminist organizations such as Concilio Sor Juana, an association devoted to Chicana issues, the Albuquerque
Women's Health Center, Rape Crisis Center, Siren Productions, National Organization of Women and the YWCA. The monthly noon information meeting at the downtown YWCA, sponsored by the New Mexico Commission on the Status of Women has benefited Women Studies and all feminist organizations in New Mexico.
Update to Educational Development Plan

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

1. To establish a separate graduate degree-granting program in Community and Regional Planning at the earliest possible time. To improve the quality of this program to the point where the Association of Collegiate Schools of Planning and the American Institute of Planners would certify that program. To attract about 15-20 entering graduate students each year.

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

We view goals 1 and 2 to be complementary.

3. To improve our ability to serve the state and communities in directly responsive efforts of research and special projects and indirectly, in continuing education, workshops and professional (graduates) resources.

4. To add to the School programs a graduate degree in landscape architecture.

Specific objectives:

78-79

a. Complete all necessary administrative processes on campus and with BEF to enable the granting of separate degrees in planning.
b. Explore and arrange to the extent possible for joint degree programs with other appropriate programs such as, Public Administration, Management, Engineering, Geography, etc.

c. Rigorously apply new curricular requirements and student performance incentives.

d. Recruit and hire 2 FTEF, one for Graduate Architecture Program head and one for Building Technology sequence coordinator.

e. See new building wing completed.

f. Initiate and improve graduate recruiting program.

g. Continue and improve existing programs in Research and the Environmental Design Education.

h. Establish an effective board of directors, broaden service functions for DPAC and seek additional funding for Director.

i. Resolve teaching of Architecture history with College of Fine Arts.

79-80

a. Complete unfinished business from 78-79 and continue programs listed above.

b. Secure separate funding for DPAC director.

c. Add 1.5 FTE faculty positions to serve needs of planning program.

d. Increase graduate enrollment to 15 NAGS, 15-20 Arch, 10-20 Planners.

e. Occupy new building wing.

f. Get approval to begin planning for grad Landscape Arch program and permission to recruit 1 FTE faculty for Fall '80 start.

g. Find additional rental space.
80-81 - Continuing

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

82-83 - Continuing

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

83-84 - Continuing

a. Add one junior FTEF in Landscape Design program.

b. Begin process of Accreditation with AIP and with Association of Collegiate School of Landscape Architecture.

c. Reassess - Dean takes a sabbatical.

MH:lt
THE REPORT OF THE COLLEGE OF ARTS AND SCIENCES

July 1, 1977 - June 30, 1978

Nathaniel Wollman, Dean
COLLEGE OF ARTS AND SCIENCES

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

TABLE OF CONTENTS

I. Administration ............................................. 1
II. Academic Program ........................................... 1
III. Academic Standards ....................................... 3
IV. Research .................................................... 6
V. Staffing and Budget ......................................... 7
VI. Unfinished Business ........................................ 7
VII. Departmental Reports ..................................... 10

Annual Report on Summer Session ................................ 11
Annual Report of Advisement Center ........................... 14
Annual Report of Student Advisory Council .................... 19
Annual Report on Travel ......................................... 21
Statistical Tables .............................................. 23
I. ADMINISTRATION

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

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

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

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

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

II. ACADEMIC PROGRAM

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

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

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

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

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

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

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

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

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

III. ACADEMIC STANDARDS

In 1977-78 for the first time a substantial number of graduating seniors took the required exit tests—the UAP Aptitude Tests and the UAP or GRE field tests. The average A&S scores were 500.5 and 492.9, respectively for the verbal and quantitative tests, compared with national norms of 416 and 444.
Fourteen departments offered the field tests. The average scores in all but two of the field tests were approximately at or above the national averages for graduating seniors (UAP norm). Students in French, Geology, and Physics, exceeded both the UAP norms for graduating seniors and the GRE norms as well, the latter based on the testing of graduate school candidates.

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

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

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

Grading practices continue to improve. A's and B's as a percent of initial registrants, (not final grades), in lower division courses fell from 36.8 to 34.8 between Semester II, 1976-77 and Semester II, 1977-78. A number of departments still award an unusually large number of high grades to lower division students. American Studies, Economics, Modern and Classical Languages,
Physics awarded over 40% A's and B's. Lower division enrollments in each of these departments ranged from 125 in American Studies to about 2,200 in Modern and Classical Languages.

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

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

<table>
<thead>
<tr>
<th>Year</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973-74</td>
<td>20.9</td>
</tr>
<tr>
<td>1974-75</td>
<td>19.3</td>
</tr>
<tr>
<td>1975-76</td>
<td>16.4</td>
</tr>
<tr>
<td>1976-77</td>
<td>15.2</td>
</tr>
<tr>
<td>1977-78</td>
<td>14.3</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Year</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1972-73</td>
<td>2.8</td>
</tr>
<tr>
<td>1973-74</td>
<td>2.9</td>
</tr>
<tr>
<td>1974-75</td>
<td>3.1</td>
</tr>
<tr>
<td>1975-76</td>
<td>3.8</td>
</tr>
<tr>
<td>1976-77</td>
<td>4.6</td>
</tr>
<tr>
<td>1977-78</td>
<td>10.5</td>
</tr>
</tbody>
</table>
There is no reason to expect a reduction in academic probations and suspensions so long as one third or more of the entering freshman class is neither prepared nor interested in academic work.

IV. RESEARCH

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

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

<table>
<thead>
<tr>
<th></th>
<th>1967-68</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$1.6 million</td>
<td>3.4 million</td>
</tr>
</tbody>
</table>

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

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

*Please identify any mistakes. This is the second time that we assembled these figures with the help of the Business Office and we do not guarantee accuracy.
In comparison with faculties of major research universities the A&S faculty works at some disadvantage. Departmental funds for research equipment are limited to tiny amounts, if any, taken from returned overhead. Funds for research expenditures in departments that receive no returned overhead are non-existent. There are no funds to support research travel other than what might be granted by the Research Allocation Committee (See Table XV). I question the suitability of the distribution formula by which funds earned as overhead from research projects are used to support other activities.

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

V. STAFFING AND BUDGET

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

VI. UNFINISHED BUSINESS

Given the particular characteristics of New Mexico's physical, biological and human environments and the University's history to this point it seems reasonable to put forth special efforts in fields for which we have special advantages. During 1977-78 we lost critical faculty, were threatened with loss of others, failed to fill a strategic position that was funded, and failed to secure funding for another strategic position. Staffing is too
thinly distributed over traditional departmental programs to allow experimentation with new courses and new programs. Whenever it seems as though the strain might be relieved, a budget reduction or the requirement to staff remedial programs absorbs the slack. In fact, given the meagreness of resources in most departments, there is rarely any slack, since minimal improvements in the teaching of undergraduate and graduate courses quickly absorb all available faculty time.

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

The solution is neither simple nor painless. Entrance requirements should
screen out those who cannot begin college work or who do not have the determina-
tion to succeed. All courses should conform to the standard of at least two
hours of outside work for the average student for every hour of class. The
average grade should be a C. Serious students will get a good education. The
gentlemen's C will be restored to respectability. The public will once again
be assured of the fact that the University is an institution of higher learning.

Within the College we face a problem with administering the regulation
that students must take the Communications Skills Test (CST) prior to admis-
sion to the College. The problem arises with transfers from outside the
university, disposition of students who flunk the CST but who are otherwise
in good standing and have no place to go, and students who have not taken the
CST but who are otherwise in good standing and have no place to go. Our policy
has been to grant provisional admission with the condition that the student
take and pass the CST promptly, or if he should fail, that he enroll in an
English writing course in preparation for the next test. We find that con-
siderable staff time goes into disenrolling and reenrolling students. We
cannot always distinguish between those students who act in good faith and
those who play their own game. We are acquiring data on the numbers involved
preparatory to bringing the matter before the faculty. In the meantime several
other colleges are also using the CST. I believe that the CST should be re-
quired throughout the University, including BUS.

A matter of continuing concern to many departments and the college office
is inadequate contact with the student for advisement and knowledge of
post-graduation activity. Probably a majority of chairmen would support mandatory advisement in spite of the difficulties encountered in the past with such a system. One of the findings of our surveys of two alumni classes is a commonly expressed regret at failure to take advantage of voluntary advisement. The answer apparently is restoration of an advisory system.

VII. DEPARTMENTAL REPORTS

The departmental reports are an essential part of this annual report. All departments face common problems but all do not move to a single beat. Anthropology and Economics are providing a well rounded evening curriculum over a period of years, one for the B.A. and the other for the M.A. Mathematics and Statistics has devised a new M.A. in applied mathematics that will include a practicum to be served in either industry, governmental research laboratory, or other academic department on campus. Several departments con-voke fellow scholars from other New Mexico colleges and universities to meetings devoted to common academic interests. Geology conducted an excellent survey of 54 departments of geology or earth sciences around the country, collecting data on enrollments, faculty size, publications, research grants and contracts, and faculty salaries. Modern Languages expanded its Taos summer program to include French and hopes to add Spanish. Biology is cautiously adding an honors program. All departments continue to reexamine programs, stimulate research and publication, and cope with problems of space, shortage of equipment and supplies, and lack of sufficient GA's and TA's.
This is the first annual report on the Summer Session. It is entirely appropriate, therefore, to trace briefly the history of Summer Session activity for the past five years inclusive (1974-1978). Following are the summary data:

<table>
<thead>
<tr>
<th>Year</th>
<th>Enrollment*</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Students</td>
<td>SCH</td>
</tr>
<tr>
<td>1974</td>
<td>6,742</td>
<td>20,514</td>
</tr>
<tr>
<td>1975</td>
<td>7,753</td>
<td>23,517</td>
</tr>
<tr>
<td>1976</td>
<td>6,310</td>
<td>19,553</td>
</tr>
<tr>
<td>1977</td>
<td>6,195</td>
<td>19,128</td>
</tr>
<tr>
<td>1978</td>
<td>5,865</td>
<td>18,035</td>
</tr>
</tbody>
</table>

*Enrollment figures for 1974-77 are for the end of the session. Those for 1978 are for the end of registration in June; these N's will increase in August.

The above table shows that a marked enrollment increase in 1975 was followed by a drastic decrease in 1976. There was an obvious lag phenomenon present in allocations for these two years. Enrollment and allocations were roughly matched for the subsequent years, although the 1977 to 1978 changes are rendered somewhat inaccurate by differences in their time bases. Overall, there has been a loss of 13.01% in students from 1974-78, with a corresponding 12.08% loss in SCH. The 30.81% increase in allocations over four years represents an average increase of 7.70% per year, a figure grossly distorted by the 15.97% increase in 1976. However, the slight dollar increases of the last two years do not reflect either inflationary pressures or merit increases despite the modest losses in enrollment. Finally, one important feature of interest over the past five years was the institution of summer research stipends to junior faculty starting with two in 1974, increasing to three in 1975, and to four each in 1976, 1977, and 1978.

Table XVIII gives the breakdown by departments of summary data for the summer sessions of 1977 and 1978 respectively. In terms of percentages, there
is little dramatic shift in any department—none varies by as much as 2%. Again in terms of allocations, the latter faithfully reflect this fact. However, in terms of total dollar amounts, several observations need to be made. The original 1978 college allocation was held at $360,000 by the Provost in November 1977, the same amount as last year, but a small additional sum was set aside to encourage meritorious programs above the usual instructional ones. After competition among a number of proposals, the following departments received additional allocations: American Studies, $817; English, $4,000; M&CL, $3,700; and Speech Communication, $2,500. All these departments, except English (which had an original allocation of $41,400) reflect these additional amounts compared to last year. In addition M&CL was granted a further additional sum to aid in developing a program of Spanish for Bilingual Teachers in connection with its application for a government grant in bilingual education. Overall, despite the need for the Spanish bilingual program, and despite the pressures of a mandatory 5% salary increase for faculty, while holding the initial basic budget to the same amount as last year, the contingency fund held within the $371,500 original allocation.

Several problems continue to vex summer session administration. Among these are:

1. Announcement of course offerings too late for registration publication which causes low enrollments.

2. Shifting of teaching personnel in and out of assignments due to receipt of research grants, need to travel, summer consultancies, resignations, etc.

3. Some clear policy for compensation of individuals acting as summer chairmen.

4. Failure to pay professors above a certain salary the full two-ninths of their usual contracts. This "ceiling effect" has aroused objections, especially among senior faculty.

5. Integration of summer compensation with those of other divisions.
The summer "total immersion" language programs at Taos need special mention. Students are exposed to substantial intellectual content as well as to intensive speaking experience. Students work hard and are uniformly enthusiastic. Because of their nature, the programs are costly although German, now in its third year, has been receiving good outside support. Taos enrollment in SS 1977 was 313 SCH at a total cost of $8,425 to A&S with a mean cost of $26.92, twice the remaining A&S mean of $13.03. Enrollment for SS 1978 is as yet unavailable from Continuing Education, but total cost to A&S is $14,512, for a 72% increase over last year. When the additional cost of the bilingual education allocation is eliminated, Taos now consumes about 32% of the already large M&CL budget (inclusive of the Provost's special allocation). If central administration is sympathetic with the goal of development of a "Middlebury of the Southwest" at Taos, I would strongly recommend some special allocation each year to cover costs beyond the usual budget.

Finally, it should be noted that an ad hoc summer session committee appointed this year has been studying problems of the session with the view of its enhancement university-wide.
Student Services

Demand for academic advisement continues to be strong in Arts and Sciences. During this fiscal year, 8,431 students were seen. Students are requiring more time for advisement. They require more time for two reasons: (1) the advisors are building a relationship with students as they progress through school and these students return to talk more seriously about their concerns and (2) liberal arts students change majors more frequently because of the nature of their education as compared to other professional colleges which have more rigid curricula. In the case of liberal arts students, the freedom of choice causes uncertainty, confusion and requires more responsible decision making. Advisors do act as excellent agents to talk to when these decisions must be made.

This year health sciences students demanded more time. The center is serving freshmen, sophomores, juniors, seniors and graduate students. Many of these students ask for an appointment and talk about the following matters: establishing a professional folder, significance of MCAT scores, getting letters of recommendation, learning about procedures for getting into medical school, and learning about alternatives to medical school. It can be estimated that 150 students are serious applicants to medical school each year. Along with these medical students are others in dentistry and veterinarian medicine who seek advisement.

In June 1978 the A&S Advisement Center began collecting evaluations from new freshmen and transfer students. The results from these revealed the following based on a total of 150 completed questionnaires: 31% of the students were referred to A&S by another office on campus.
The following are the offices making the referrals: University College, Admissions Office, Student Health Center, Registration, Veterans Affairs, Psychology, Modern and Classical Languages, Administrative Offices, Information Booths, Career Services, Continuing Education, Student Relations, Dean of Students Office and NROTC.

A rating of outstanding was given to the A&S advisors by 67% of the students, 33% of the students gave the A&S advisors a rating of above average, 83% of the students indicated that they plan to visit the center again, and 17% are not sure if they plan to visit the center again.*

Departmental Relations

The relationship between the various A&S departments and the advisement center has continued to remain strong. During this year a Health Sciences Committee was established. There has been close contact and coordination with this group so that advisement and referrals to this committee can be made efficiently. Also, as a by product, 23 faculty from A&S departments and other colleges have volunteered for one year to see students in the health sciences for advisement. Their major focus will be how departmental courses can relate to professional schools.

Advisement for students who have decided on a major continues to be a function of the A&S departments. All departments have someone available to talk to students either on a walk-in basis or by appointment.

Projects and Committees

The center has been involved in the following activities, projects and committees: (1) Project AHEAD, (2) the Returning Students' Association and newly formed committee, (3) School Relations and Orientation, (4) advisement.

*A copy of student comments is available from the Advisement Center.
of all health science students, (5) establishing, sponsoring, and attending
the Student Health Science Club, (6) working with the Health Science Committee,
(7) attending major functions sponsored by the medical and dental schools,
(8) helping with UNM's Advisement Guide for new freshmen, (9) sponsoring our
own experimental study habits course and career fair, (10) collecting data and
writing reports for A&S research projects, (11) serving on three national com-
mittees, (12) serving as UNM's representative to the United Way budget com-
mittee, and (13) planning the Regional Academic Affairs' Administrators Confer-
ence to be held in Albuquerque in March 1979.

Professional Committee Attendance

<table>
<thead>
<tr>
<th>Organization</th>
<th>Position Held</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rocky Mountain Academic Affairs Administrators</td>
<td>President-Elect</td>
</tr>
<tr>
<td>American Personnel and Guidance Association</td>
<td>Directorate Body Member of American College Personnel</td>
</tr>
<tr>
<td>American Psychological Association</td>
<td>Member of Continuing Education Committee of Counseling Psychology</td>
</tr>
</tbody>
</table>

Student Load

The monthly student count is listed below for last fiscal year and this
fiscal year.

<table>
<thead>
<tr>
<th></th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>732</td>
<td>755</td>
</tr>
<tr>
<td>August</td>
<td>775</td>
<td>1,287</td>
</tr>
<tr>
<td>September</td>
<td>237</td>
<td>313</td>
</tr>
<tr>
<td>October</td>
<td>239</td>
<td>328</td>
</tr>
<tr>
<td>November</td>
<td>640</td>
<td>1,744</td>
</tr>
<tr>
<td>December</td>
<td>151</td>
<td>386</td>
</tr>
<tr>
<td>January</td>
<td>622</td>
<td>902</td>
</tr>
<tr>
<td>February</td>
<td>181</td>
<td>743</td>
</tr>
<tr>
<td>March</td>
<td>293</td>
<td>260</td>
</tr>
<tr>
<td>April</td>
<td>899</td>
<td>774</td>
</tr>
<tr>
<td>May</td>
<td>709</td>
<td>771</td>
</tr>
<tr>
<td>June</td>
<td>659</td>
<td>668</td>
</tr>
<tr>
<td>TOTAL</td>
<td>6,137</td>
<td>8,431</td>
</tr>
</tbody>
</table>
These figures show that an additional 2,294 students sought services from the center. This is a 37% increase over last year. It should also be mentioned that the office experienced approximately 9,000 phone calls during the year in which information, advice and suggestions were given to many who called.

There should be mention of Dr. Bruce Potter's Advisement Model since it is applicable to this report. The model shows several levels of advisement. It should be pointed out that in our center the advisor attempts to direct the student toward higher levels of functioning but the lower levels must also be encountered first. Many students come in for a quick question. At times it is possible to lead the student to think about viable solutions and plans for their own lifestyle. Sometimes this approach is impossible to pursue because time is limited and other students are waiting for assistance. Under the present conditions it is impossible to determine from our statistics which students receive long term advisement and which ones receive information only. Longer advisement sessions have become a necessity as well as the fact that more offices on campus are requesting appointments for students when referring them to the center.

**Staff Changes**

Nova Martinez resigned for personal reasons and was replaced by Janet Farnham.

**Further Activities**

The center has begun thinking along the lines of offering a package program to students. Even though the package for the next year is somewhat incomplete it is a start. The students can participate in the following activities: (1) an orientation for health science students, (2) health science club meetings with vocational testing being offered, (3) an experimental study habits
workshop, (4) personal advisement, and (5) a career fair for liberal arts students.

In addition data collection will continue in the areas of study habits and A&S graduates. Advisement will be offered to A&S students on probation and suspension. The use of cooperative education programs in A&S will be looked at during the next year.
ANNUAL REPORT OF STUDENT ADVISORY COUNCIL

F. Chris Garcia

The Student Advisory Council consists of students suggested by A&S departments. The Council's primary function is to provide student input to A&S policies and to serve as liaisons between the college and the A&S student body.

Members were:

- Hillary Atkin, Speech Communications
- Richard Bolton, Physics
- Kathleen Callahan, Political Science
- Fred Collatz, Psychology
- Jeffrey Kennedy, History
- Jon Lesser, Math
- Dorothy Ann Miller, Psychology
- Clifford Nomberg, Biology
- Jay D. Rosenblum, Economics

The committee met with me bi-weekly throughout the year. A number of matters were discussed including:

1. Final exam policy. The committee developed a proposal for a final exam policy. This was transmitted to Dean Vollman.

2. Closed week. The Committee agreed that, as currently practiced, closed week does not warrant its special designation. It recommended either abolishing the term and continuing business as usual during that week or preferably making it a truly closed study period of about three days. During this period no lectures or exams would be given. Classes would be held only in that the instructors would either review course material or be available for answering questions at the regularly scheduled class time and place.

3. Individual Interdisciplinary Major. The SAC was informed of the progress of the College Ad Hoc Committee on Interdisciplinary Majors as it developed its proposal. The Council made suggestions for the evolving program.

4. Registration. The members of the SAC were also concerned about registration procedures, particularly the status of closed classes. Allegedly, some students were arbitrarily allowed into them while others were excluded. The committee made some suggestions that possibly could minimize unauthorized registrations in closed sections. These were forwarded to the Registrar's office.

5. Grade Standards and Honors. The SAC expressed concern about suspected varying grading standards among colleges and the effect
of these upon the awarding of academic honors and nominations to honorary societies such as Phi Kappa Phi. The committee will investigate this matter further in the 1978-79 academic year.

**Student Grievances and Standards**

Complaints against faculty, usually concerning the alleged unjust assignment of grades, were brought by ten students. All the cases were resolved. One case of violation of academic standards (cheating) was reported. This was investigated and channeled to the Student Standards Committee.
For 1977-78 the travel budget was $34,500, a 50% increase over the $23,000 allocated for 1976-77. This increase provided a measure of relief from the austerity of last year and the starvation amounts of several years preceding. A new reimbursement policy was introduced: two-thirds fare for a first trip; half for a second; one-third for a third, and quite rarely, even one-quarter for a fourth. The net effect was an increase in the number of travelers. However, faculty still had to pay much of their own expenses as air fares and per diem costs spiraled.

Total disbursements for 1977-78 are given in Table XIX, which keeps the usual categories: (A) Paper Presentation; (B) Officerships; and (C) Miscellaneous, including chairing of sessions, membership on panels, invitations as discussants, etc., as well as simple attendance. (Only under special circumstances were funds allowed for the latter.) Following are the figures for trips and amounts spent for 1976-77 and 1977-78:

<table>
<thead>
<tr>
<th>Category</th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Trips</td>
<td>Amount Spent</td>
</tr>
<tr>
<td>Category A</td>
<td>124</td>
<td>$13,663</td>
</tr>
<tr>
<td>Category B</td>
<td>15</td>
<td>1,317</td>
</tr>
<tr>
<td>Category C</td>
<td>52</td>
<td>6,091</td>
</tr>
<tr>
<td>TOTAL</td>
<td>191</td>
<td>$21,071</td>
</tr>
</tbody>
</table>

Although the above table shows little percentage variation among the various categories between the two years, the number of trips increased from 191 to 245, or 28.3%. The latter figure is over twice that of the 1975-76 to 1976-77 increase of 13.7%. The amount spent per traveler for all trips was $136.55, a substantial gain over the last fiscal year mean of $110.32. Effects of the increase in support are obvious in these data. The total expenditure of $33,454 left $1,046 or 3.0% of the initial allocation in the reserve.
Table XIX presents the breakdown by departments among all categories. As I noted last year, it may be possible to single out departments active in paper presentation despite their varying sizes. This year Biology, Chemistry, Geology, Linguistics, and Speech Communication had high percentages of faculty engaged in such activity. Biology continues to maintain this distinction for the fifth successive year.

A budget change as substantial as that of the current year is not anticipated for 1978-79. If inflation continues its ravages, we may not see any sharp increases in trips or support per traveler.
TABLE I

STANDING AND SPECIAL COMMITTEES,
COLLEGE OF ARTS AND SCIENCES, 1977-78

A&S Tenure Advisory Committee

Raymond R. MacCurdy, Chairman, Modern & Classical Languages
Melvin L. DeFleur, Sociology
Paul R. Kerkof, Biology
Charlene McDermott, Philosophy
Lewis K. Binford, Anthropology
Roger C. Entringer, Mathematics & Statistics
Hamlin Hill, English

A&S Promotion Advisory Committee

Humanities:

Hamlin Hill, Chairman, English
Matthieu Casalis, Philosophy
Charles K. Coates, Journalism
Donald C. Cutter, History
Patricia Murphy, Modern & Classical Languages

Natural Sciences and Mathematics:

Roger C. Entringer, Chairman, Mathematics & Statistics
Dolores S. Butt, Communicative Disorders
William F. Coleman, Chemistry
Wolfgang E. Elston, Geology
Christopher P. Leavitt, Physics
Frank A. Logan, Psychology
Marvin L. Riedesel, Biology

Social Sciences:

Lewis K. Binford, Chairman, Anthropology
Pham Chung, Economics
Jean H. Civikly, Speech Communication
Frieda L. Gehlen, Sociology
Iven Bennett, Geography

A&S Graduate Committee

David T. Benedetti, Chairman, Psychology, Associate Dean, Graduate Studies
Dodd H. Bogart, Sociology
William F. Coleman, Chemistry
Donald W. Duszynski, Biology
James D. Finley, Physics
Roger Friedman, Graduate Student
Sam B. Girgus, American Studies
Richard B. Hood, Communicative Disorders
Alan Hudson-Edwards, Linguistics
TABLE I (Contd.)

A&S Graduate Committee (Contd.)

Gary P. Landis, Geology
Frank A. Logan, Psychology
Terry A. Lyle, Graduate Student
David C. McPherson, English
Cleve B. Moles, Mathematics & Statistics
Brian E. O'Neill, Philosophy
Alfred L. Parker, Economics
Timothy G. Plax, Speech Communication
Jonathan Porter, History
Brian Sanderoff, Graduate Student
Rodman E. Snead, Geography
Karl H. Schwerin, Anthropology
Harry P. Stumph, Political Science
Jack E. Tomlins, Modern & Classical Languages
Julian E. White, Associate Dean, A&S

A&S Committee on Academic Programs

Frank Ikle, Chairman, History
Iven Bennett, Geography
Hamlin Hill, English
Klaus Keil, Geology
Lambert H. Koopmans, Mathematics & Statistics
Karen Remmer, Political Science
Richard F. Tomasson, Sociology

A&S Human Subjects Committee

Arthur St. George, Chairman, Sociology
Rabbi Isaac H. Celnik, Congregation B'nai Israel
Carol Conrad, Psychology
Harold Delaney, Psychology
Timothy G. Plax, Speech Communication

A&S Student Advisory Council

Hillary Atkin, Speech Communication
Richard Bolton, Physics
Kathleen Callahan, Political Science & Psychology
Jeffrey Kennedy, History
Jon Lesser, Mathematics & Statistics
Dorothy Ann Miller, Psychology
Clifford Nenomberg, Biology
Fred Collatz, Biology
Jay Rosenblum, Economics & Political Science

A&S Ad Hoc Committee for Interdisciplinary Majors

Peter Fabisch, Chairman, Modern & Classical Languages
Robert Campbell, Geography
Clifford Crawford, Biology
F. Chris Garcia, Associate Dean, A&S
Steven P. Kramer, History
Fred G. Sturm, Philosophy
TABLE I (Contd.)

**A&S American Studies Committee**

- Sam B. Curgus, Chairman, American Studies
- Ernest Baughman, English
- Ferenc Szasz, History
- Harold Rhodes, Political Science
- Anne Taylor, Art Education
- Sanford Cohen, Economics
- Robert Fleming, English
- Ira Jaffe, Theatre Arts
- Jane Slaughter, History
- Marta Weigle, Anthropology & English
- Daniel Slate, Business & Administrative Sciences
- Douglas George, Art
- George Arms (Emeritus)

**A&S Asian Studies Committee**

- Charlene McDermott, Chairman, Philosophy
- Frank Ikle, History
- Douglas Gordon, Geography
- James M. Sebring, Anthropology
- Jay Sorenson, Political Science

**A&S Comparative Literature Committee**

- Patricia Murphy, Chairman, Modern & Classical Languages
- Alfred Rodriguez, Modern & Classical Languages
- Patrick S. Gallacher, English
- David McPherson, English
- Peter Pabisch, Modern & Classical Languages
- George F. Peters, Modern & Classical Languages
- Warren S. Smith, Modern & Classical Languages
- Jon M. Tolman, Modern & Classical Languages
- Joseph B. Zavadil, English
- Byron Lindsey, Modern & Classical Languages

**A&S Linguistics Committee**

- Garland Bills, Chairman, Linguistics
- Fred Chreist, Sr., Communicative Disorders
- Vera John-Steiner, Elementary Education
- Bernard Spolsky, Linguistics
- Miles V. Zintz, Elementary Education
- Dean G. Brodkey, Elementary Education
- John Oller, Linguistics
- Roy G. Pickett, English
- Robert White, Secondary Education
- Carol Conrad, Psychology
- Larry Gorbet, Anthropology
- Alan Hudson-Edwards, Linguistics
- Rodney W. Young, Linguistics
- Robert W. Young, Emeritus
TABLE I (Contd.)

A&S Russian Studies Committee

Richard Robbins, Chairman, History
Pham Chung, Economics
Richard Murphy, Geography
Jay Sorenson, Political Science
Byron Lindsey, Modern & Classical Languages
### TABLE II

#### DEPARTMENTS AND CHAIRMEN

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<thead>
<tr>
<th>Department</th>
<th>Chairman</th>
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<td>AMERICAN STUDIES</td>
<td>Sam B. Grigus</td>
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<td>COMMUNICATIVE DISORDERS</td>
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#### PROGRAMS AND DIRECTORS

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<td>Michael J. Hogan (Acting Sem. I)</td>
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TABLE III

FACULTY PROMOTIONS, RETIREMENTS, SEPARATIONS, AND APPOINTMENTS,
TENURE AND THIRD YEAR TERM DECISIONS

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<td>Wayne E. Swisher</td>
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<td>Joyce Tebilcot</td>
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<td>Diana Marie Warner</td>
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<th>New Appointments (Effective 1977-78 or 1978-79)</th>
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<tbody>
<tr>
<td>Anthropology:</td>
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<tr>
<td>Robert S. Santley</td>
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<td>Mari Lyn Salvador</td>
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<td>John A. Wiens</td>
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<td>Linda Lea Riensche</td>
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<td>Curtis Wiess</td>
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<td>Economics:</td>
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<td>Roger D. Norton</td>
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<td>(starts Sem. II, 1978-79)</td>
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<td>Stuart Burness</td>
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<td>Haig Khatchadourian</td>
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<td>Richard M. Coughlin</td>
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Communicative Disorders
Anthropology
Philosophy
Sociology
Assistant Professor
Assistant Professor
Professor
Assistant Professor
Assistant Professor
Professor
Associate Professor
Visiting Associate Professor
Visiting Professor (Sem. I)
Instructor
Professor/Editor NMHR (starts August 1979)
Assistant Professor
Visiting Assistant Professor
Visiting Assistant Professor
Visiting Instructor
Visiting Instructor
Visiting Distinguished Professor
Exchange Professor from Germany
Assistant Professor
Visiting Assistant Professor
Assistant Professor
Assistant Professor
Assistant Professor
TABLE III (Contd.)

TENURE DECISION DATES
June 30, 1978

<table>
<thead>
<tr>
<th>Department</th>
<th>Faculty Members</th>
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<tbody>
<tr>
<td>Chemistry</td>
<td>Robert T. Paine, Assistant Professor</td>
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<td>Communicative Disorders</td>
<td>Mary L. Bolton, Instructor</td>
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<td>Philosophy</td>
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-30-
### TABLE III (Contd.)

THIRD YEAR TERM DECISIONS

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<thead>
<tr>
<th>American Studies</th>
<th>Psychology</th>
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<tbody>
<tr>
<td>Helen M. Bannan</td>
<td>Harold D. Delaney, Frances S. Harnick</td>
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#### Anthropology
- Lawrence G. Straus
- Joseph A. Tainter

#### Biology
- Douglas E. Caldwell
- Rex G. Cates
- Manuel C. Molles
- Albert R. Thornhill
- John L. Trujillo

#### Chemistry
- Thomas E. Jones
- Su-Moon Park

#### English
- William C. Dowling
- Michael R. Fischer
- Leslie M. Silko

#### History
- Michael L. Conniff
- Steven P. Kramer

#### Journalism
- Stuart Novins

#### Mathematics and Statistics
- Moshe Shaked

#### Modern and Classical Languages
- Dick C. Gerdes

#### Physics and Astronomy
- Michael Zeilik

#### Political Science
- Thomas L. Hurley
- James L. Ray
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<thead>
<tr>
<th>Department</th>
<th>Returning Faculty</th>
<th>New Faculty</th>
<th>Part-Time Instruction</th>
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### TABLE V

**NUMBER OF STUDENTS ENROLLED**
**COLLEGE OF ARTS AND SCIENCES, 1969-70/1976-77**

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem. I</th>
<th>% Inc. Over</th>
<th>Sem. II</th>
<th>% Inc. Over</th>
</tr>
</thead>
<tbody>
<tr>
<td>1969-70</td>
<td>2,454</td>
<td>3.7</td>
<td>2,412</td>
<td>-2.5</td>
</tr>
<tr>
<td>1970-71</td>
<td>2,541</td>
<td>3.5</td>
<td>2,518</td>
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<tr>
<td>1971-72</td>
<td>2,563</td>
<td>0.9</td>
<td>2,490</td>
<td>-1.1</td>
</tr>
<tr>
<td>1972-73</td>
<td>2,644</td>
<td>3.2</td>
<td>2,837</td>
<td>13.9</td>
</tr>
<tr>
<td>1973-74</td>
<td>2,857</td>
<td>8.0</td>
<td>2,797</td>
<td>-1.4</td>
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<tr>
<td>1974-75</td>
<td>2,724</td>
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<td>1975-76</td>
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<td>1976-77</td>
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<td>2,582</td>
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<td>-4.9</td>
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**Increase**

1977-78 Over 1969-70

**Over 1969-70**

128 5.2

### TABLE VI

**STUDENT CREDIT HOURS TAUGHT, UNM AND A&S**

<table>
<thead>
<tr>
<th>Year</th>
<th>Student Credit Hours</th>
<th>A&amp;S Percent of Total</th>
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<td>279,705</td>
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<tr>
<td>1972-73</td>
<td>425,302</td>
<td>278,577</td>
</tr>
<tr>
<td>1973-74</td>
<td>420,311</td>
<td>256,979</td>
</tr>
<tr>
<td>1974-75</td>
<td>517,455</td>
<td>300,821</td>
</tr>
<tr>
<td>1975-76</td>
<td>461,641</td>
<td>285,551</td>
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<tr>
<td>1976-77</td>
<td>487,208</td>
<td>279,810</td>
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<tr>
<td>1977-78</td>
<td>476,229</td>
<td>267,786</td>
</tr>
</tbody>
</table>

**Decrease**

1977-78 Over 1969-70

-2.25% -4.30%

**Over 1976-77**

10,979 12,024

**Increase**

1977-78 Over 1969-70

29.24% 14.30%

107,750 33,498
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<th></th>
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<td>23,766</td>
<td>22,449</td>
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<td>24,565</td>
<td>23,278</td>
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<td>16,338</td>
<td>19,810</td>
<td>18,249</td>
<td>19,397</td>
<td>18,143</td>
<td>31.5</td>
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<td>2,531</td>
<td>2,758</td>
<td>2,928</td>
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<td>10,950</td>
<td>10,483</td>
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<td>13,045</td>
<td>12,168</td>
<td>13,899</td>
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<td>34,770</td>
<td>28,392</td>
<td>32,564</td>
<td>30,478</td>
<td>31,370</td>
<td>30,128</td>
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<td>4,960</td>
<td>5,838</td>
<td>6,008</td>
<td>5,545</td>
<td>5,410</td>
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<td>10,000</td>
<td>9,332</td>
<td>10,028</td>
<td>8,728</td>
<td>8,797</td>
<td>8,154</td>
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<td>21,969</td>
<td>19,636</td>
<td>22,676</td>
<td>21,740</td>
<td>19,745</td>
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<td>Journalism</td>
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<td>2,474</td>
<td>2,661</td>
<td>3,109</td>
<td>3,603</td>
<td>3,584</td>
<td>3,425</td>
<td>3,016</td>
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<td>--</td>
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<td>1,921</td>
<td>1,986</td>
<td>1,615</td>
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<tr>
<td>H&amp;CL</td>
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<td>22,036</td>
<td>20,215</td>
<td>17,257</td>
<td>22,917</td>
<td>23,985</td>
<td>21,491</td>
<td>19,648</td>
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<td>Philosophy</td>
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<td>11,619</td>
<td>10,207</td>
<td>9,287</td>
<td>11,020</td>
<td>9,631</td>
<td>7,926</td>
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<td>Phys. &amp; Astr.</td>
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<td>11,210</td>
<td>11,860</td>
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<td>12,847</td>
<td>11,842</td>
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<td>10,876</td>
<td>10,391</td>
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<td>25,038</td>
<td>26,804</td>
<td>24,832</td>
<td>24,422</td>
<td>24,273</td>
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<td>13,383</td>
<td>12,549</td>
<td>10,055</td>
<td>12,170</td>
<td>11,182</td>
<td>13,778</td>
<td>15,155</td>
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<td>Speech Comm.</td>
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<td>7,929</td>
<td>9,886</td>
<td>10,523</td>
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<td>278,577</td>
<td>256,979</td>
<td>300,821</td>
<td>285,551</td>
<td>279,810</td>
<td>267,665*</td>
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*A disparity appears in College total SCH in Tables V and VI due to late additions. Data for tables are from 21-day report.
### TABLE VIII

**Degrees Awarded, College of Arts and Sciences**

<table>
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<tr>
<th>Year</th>
<th>Bachelor's Degrees</th>
<th>Advanced Degrees</th>
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<td></td>
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<td>592</td>
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<td>435</td>
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<td>611</td>
<td>-13.6</td>
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<tr>
<td>1978</td>
<td>662</td>
<td>8.3</td>
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</table>

7-Year Increase: 70° 11.8 4 - 2.3 5 6.8 9 - 3.7

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

### TABLE IX

**Degrees Awarded, A&S and UNM, 1968 and 1978**

<table>
<thead>
<tr>
<th>College</th>
<th>Bachelor's Degrees</th>
<th>Advanced Degrees</th>
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<td>1978</td>
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<td>Arts and Sciences</td>
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<td>662</td>
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<td>B.U.S.</td>
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<td>Other Colleges*</td>
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<td>UNM Total</td>
<td>1,285</td>
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*Excludes Law and Medicine.
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<th>Master's:</th>
<th>Doctoral:</th>
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<td>Comm. Disorders</td>
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<td>52</td>
<td>43</td>
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<td>Ibero-Amer. St.**</td>
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<td>2</td>
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<td>Lat. Amer. St.</td>
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TOTAL: 829 717 611 639 1441 141 171 197 64 74 69 68

1Includes summer, fall, and spring graduates.
*Not departments of the College of Arts and Sciences, but major or minor is allowed under certain conditions.
**Interdisciplinary programs at the doctoral level.
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<td>4</td>
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<td>1</td>
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<td>85</td>
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<td>34</td>
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</table>
### TABLE XII

**ACADEMIC PROBATIONS, SUSPENSIONS, AND RELEASES**

**COLLEGE OF ARTS AND SCIENCES**

<table>
<thead>
<tr>
<th>No.</th>
<th>%</th>
<th>No.</th>
<th>%</th>
<th>No.</th>
<th>%</th>
<th>No.</th>
<th>%</th>
<th>No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>On Probation</td>
<td>74</td>
<td>2.6</td>
<td>90</td>
<td>3.4</td>
<td>81</td>
<td>3.0</td>
<td>81</td>
<td>3.0</td>
<td>262</td>
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<td>0.5</td>
<td>31</td>
<td>1.2</td>
<td>37</td>
<td>1.4</td>
<td>38</td>
<td>1.4</td>
<td>59</td>
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<td>43</td>
<td>1.5</td>
<td>58</td>
<td>2.2</td>
<td>64</td>
<td>2.4</td>
<td>74</td>
<td>2.8</td>
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<td><strong>Semester II</strong></td>
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</tr>
<tr>
<td>On Probation</td>
<td>62</td>
<td>2.2</td>
<td>54</td>
<td>2.0</td>
<td>58</td>
<td>2.1</td>
<td>78</td>
<td>2.9</td>
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<td>Suspended</td>
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<td>31</td>
<td>1.1</td>
<td>47</td>
<td>1.7</td>
<td>46</td>
<td>1.7</td>
<td>64</td>
</tr>
<tr>
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<td>53</td>
<td>1.9</td>
<td>74</td>
<td>2.8</td>
<td>70</td>
<td>2.5</td>
<td>71</td>
<td>2.6</td>
<td>58</td>
</tr>
</tbody>
</table>

**Number of Students enrolled in Arts and Sciences:**

- Semester I, 1977-78: 2,582
- Semester II, 1977-78: 2,602

### TABLE XIII

**DEAN'S LIST, COLLEGE OF ARTS AND SCIENCES:**

**NUMBER OF STUDENTS WITH GPA OF 3.00 AND ABOVE FOR WORK OF 15 HOURS OR MORE TAKEN IN THE SEMESTER WITH GRADE**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
<td>%</td>
<td>Sem. II</td>
<td>%</td>
</tr>
<tr>
<td>4.00</td>
<td>64</td>
<td>2.4</td>
<td>71</td>
<td>2.7</td>
</tr>
<tr>
<td>3.50-3.99</td>
<td>172</td>
<td>6.7</td>
<td>158</td>
<td>6.1</td>
</tr>
<tr>
<td>3.00-3.49</td>
<td>249</td>
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<td>262</td>
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<td><strong>TOTAL</strong></td>
<td>485</td>
<td>19.2</td>
<td>491</td>
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<td>49</td>
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<td>3.00-3.49</td>
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<td>210</td>
<td>7.7</td>
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<td><strong>TOTAL</strong></td>
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<td>14.5</td>
<td>417</td>
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**NOTE:** % represents the percentage of the total Arts and Sciences enrollment for the semester indicated.
TABLE XIV

DEGREES GRANTED WITH HONORS, 1977-78

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<tr>
<th>Honors in General Studies:</th>
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<tr>
<td>Magna Cum Laude</td>
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<td>Cum Laude</td>
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<tr>
<td>Summa Cum Laude</td>
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<table>
<thead>
<tr>
<th>Departmental Honors:</th>
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<tr>
<td>Economics</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Geology</td>
</tr>
<tr>
<td>Modern &amp; Classical Languages</td>
</tr>
<tr>
<td>Physics</td>
</tr>
<tr>
<td>Political Science</td>
</tr>
<tr>
<td>Psychology</td>
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**Elected to Phi Beta Kappa:**

Information not available

**Nominated to Phi Kappa Phi:**

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<tr>
<th>Seniors</th>
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<td>74</td>
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<td>Department</td>
<td>Number of Grants</td>
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<tr>
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<td>3</td>
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<tr>
<td>Anthropology</td>
<td>7</td>
</tr>
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<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>9</td>
</tr>
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<td>Economics</td>
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<td>Geology</td>
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<td>Political Science</td>
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<td>Psychology</td>
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<td>Sociology</td>
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<td><strong>TOTAL</strong></td>
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### TABLE XVI

NEW RESEARCH AND TRAINING GRANTS

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<tr>
<th>Department</th>
<th>1967-68 ($000)</th>
<th>1977-78 ($000)</th>
<th>Number of Faculty</th>
<th>Number of Grants</th>
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<td>162.4</td>
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<td>Journalism</td>
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<td>Linguistics</td>
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<td>Sociology</td>
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<td>46.1</td>
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<td>Speech Communication</td>
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<td>7.0</td>
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<td>1</td>
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<tr>
<td><strong>Sub-Total</strong></td>
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<td><strong>2,926.7</strong></td>
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<td><strong>110</strong></td>
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<td>36</td>
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<td>Inter-American Affairs</td>
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</tr>
<tr>
<td>Latin American Center</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Meteoritics</td>
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<td>218.0</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td><strong>Sub-Total</strong></td>
<td><strong>1.1</strong></td>
<td><strong>524.9</strong></td>
<td><strong>2</strong></td>
<td><strong>43</strong></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,619.9</strong></td>
<td><strong>3,451.6</strong></td>
<td><strong>75</strong></td>
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</tr>
<tr>
<td>Date</td>
<td>Name, Title &amp; Address</td>
<td>Department</td>
<td>Purpose</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------------</td>
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</tr>
<tr>
<td>11/28/77</td>
<td>Dr. Nonie Carol Murphy, Professor of Speech</td>
<td>Speech Communication</td>
<td>Lecture, Workshop</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New York University, NY</td>
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<tr>
<td>10/27-29/77</td>
<td>Reception for visitors &amp; participants in the Simposio Internacional</td>
<td>Modern and Classical Languages</td>
<td>Symposium</td>
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<td>10/31/77</td>
<td>John H. Elliott, The Institute for Advance Studies</td>
<td>History</td>
<td>Lecture</td>
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<tr>
<td></td>
<td>Princeton, NJ</td>
<td></td>
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<td></td>
</tr>
<tr>
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<td>Luncheon for the Journalism Accreditation team with the Journalism faculty</td>
<td>Journalism</td>
<td>Luncheon</td>
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<td>Helmut E. Gerber, Professor Arizona State University Phoenix, Arizona</td>
<td>English</td>
<td>Lecture on Late Victorian/Early Modern English Literature</td>
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</tr>
<tr>
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<td>Colin Williamson, Lecturer at Oxford and Tutorial Fellow at Jesus College</td>
<td>English</td>
<td>Lecture on Elizabethan Literature</td>
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</tr>
<tr>
<td>1/1/78</td>
<td>Thomas Rogers, Professor Pennsylvania State Univ.</td>
<td>English</td>
<td>Lecture &amp; workshops with writing classes</td>
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</tr>
<tr>
<td>2/2/78</td>
<td>B.K. Matilal, Professor All Souls College Oxford OX1 4AL, England</td>
<td>Philosophy</td>
<td>Lecture on Buddhist &amp; Hindu epistemology and logic and mysticism</td>
<td></td>
</tr>
<tr>
<td>2/15/78</td>
<td>Thomas Sebeok, Distinguished Professor of Linguistics Indiana University</td>
<td>English</td>
<td>Lecture &amp; workshop</td>
<td></td>
</tr>
<tr>
<td>3/15/78</td>
<td>Jonathan Culler, Professor of English and Comparative Literature Cornell University</td>
<td>English</td>
<td>Lecture &amp; workshop with graduate students</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Name, Title &amp; Address</td>
<td>Department</td>
<td>Purpose</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>2/21/78</td>
<td>Alexander Cassella&lt;br&gt;Carnegie Foundation&lt;br&gt;Formerly with the UN Refugee Commission</td>
<td>Geography</td>
<td>Lecture on an analysis of the Mainland Chinese educational system &amp; its current problems</td>
<td></td>
</tr>
<tr>
<td>3/5/78</td>
<td>Jean-Philippe Rigaud&lt;br&gt;Professor &amp; Director of Prehistoric Antiquities of Southwestern France</td>
<td>Anthropology</td>
<td>Lecture &amp; workshop</td>
<td></td>
</tr>
<tr>
<td>3/3/78</td>
<td>Jay Gurian&lt;br&gt;Professor of American St.&lt;br&gt;University of Hawaii</td>
<td>American Studies</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>3/10/78</td>
<td>Alistair Hennessy&lt;br&gt;Professor&lt;br&gt;Warwick University&lt;br&gt;England</td>
<td>Political Science</td>
<td>Lecture on the Muralists of the Mexican Revolution</td>
<td></td>
</tr>
<tr>
<td>10/4–5/77</td>
<td>Rolando Mellafe&lt;br&gt;Chilean Historian&lt;br&gt;University of Wisconsin</td>
<td>History</td>
<td>Lecture on Comparative Slavery</td>
<td></td>
</tr>
<tr>
<td>4/3/78</td>
<td>Gerhard Hoffman&lt;br&gt;German Scholar with a specialization in Eugene O’Neill</td>
<td>English</td>
<td>Lecture &amp; workshop &quot;A Foreign Perspective on Recent American Literature&quot;</td>
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<tr>
<td>Department</td>
<td>Final 1977 Figures</td>
<td>Preliminary 1978 Figures</td>
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<td>--------------------</td>
<td>-------------------------</td>
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<tr>
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<td>Enrollment SCH</td>
<td>Allocation $ %</td>
<td>Enrollment SCH</td>
<td>Allocation $ %</td>
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<td>27,280 7.34</td>
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<td>1,085 6.02</td>
<td>13,824 3.72</td>
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<td>45,413 12.61</td>
<td>1,892 10.49</td>
<td>45,949 12.37</td>
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<td>371 1.94</td>
<td>9,018 2.51</td>
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<td>8,978 2.42</td>
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<td>10,680 2.97</td>
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<td>10,448 2.81</td>
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<td>1,484 8.23</td>
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<td>6,234 1.73</td>
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<td>32,649 9.07</td>
<td>3,195 17.72</td>
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<td>45,007 12.50</td>
<td>4,933 8.28</td>
<td>50,321 13.55</td>
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<td>338 1.87</td>
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<td>586 3.25</td>
<td>11,584 3.12</td>
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<td>1,277 6.68</td>
<td>18,236 5.07</td>
<td>1,472 8.16</td>
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<tr>
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<td>820 4.55</td>
<td>11,221 3.02</td>
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<td>578 3.20</td>
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<td>200 0.06</td>
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<td>11,000 2.96</td>
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The approval of a major for undergraduates was the most important development in the past year and a decisive event in the department's history. After more than thirty years of offering the doctoral degree and three years of offering a minor concentration, American Studies took this step to intensify its involvement with undergraduate study. The major will serve the needs of increasing numbers of students who want an interdisciplinary interdepartmental concentration dealing with the study of American life and thought. The new program will enhance the already considerable national reputation of American Studies at the University of New Mexico. The department plans not only to balance its educational efforts at the graduate and undergraduate levels but also to work towards a harmonious relationship between those programs for their mutual enrichment.

Doctoral students in this department were given valuable assistance by Professor Hamlin Hill in his first year of a joint appointment with the English Department. Under the direction of the chairman, Professor Sam Girgus, graduate students were encouraged to strengthen the focus and interdisciplinary nature of their programs primarily by selection of committees that include some of the university's best scholars. The core faculty in American Studies continue
their increased production of research and scholarship, which is documented in the record of publications and activities given in the following pages.

1977-78 was Professor Helen Bannan's third year with American Studies. Following strong recommendations from the American Studies Faculty, the chairman and the core faculty, along with the endorsement of the college, she was reappointed for a second three year term. Her specializations in the important areas of Native American and women studies along with her teaching performance and service on committees were cited.

Her article, "'I Remember Mama': Immigrant Mothers in the Works of Their Daughters," has been accepted for publication in the November, 1978 issue of Women's Studies; that special issue on Mothers and Daughters will be republished as a book. Another article, "The Idea of Civilization and American Indian Policy Reformers in the 1880's," is under consideration for publication. Dr. Bannan continues to abstract articles in Quest: A Feminist Quarterly for the Abstracts of Popular Culture. Two book reviews are forthcoming, one of Then Badger Said This by Elizabeth Cook-Lynn in La Confluencia, and the other of Kathryn Weibel's Mirror Mirror: Images of Women Reflected in Popular Culture for Folklore Women's Communication.

She is beginning research on a study of field matrons in the Bureau of Indian Affairs.

In June-July, 1977 Professor Bannan participated in a Modern Language Association summer seminar on Native American Literature in Flagstaff, Arizona. Dr. Bannan spoke on
"American Women's Rights Efforts Before 1920" for a Regional Women and the Law Conference held in Albuquerque last October. She continues to serve as second vice president of the Rocky Mountain American Studies Association and attended their conference this spring in Golden, Colorado.

Professor Bannan taught and developed four new courses this year: "The Frontier in American Thought," spring 1978; "Women's Experience in the United States: Women in Southwest Multicultural Society," team-taught with Junella Haynes in spring; "Immigrant Women" and a graduate seminar on "Interdisciplinary Feminist Research," both in the fall semester.

Dr. Bannan continued her work as the American Studies undergraduate advisor. She also continued to serve on these committees: Women Studies, General Honors Council, Native American Studies Advisory Board. Since January, 1978 she has been co-chair of the Faculty and Professional Women's Association.

This summer the Faculty Research Allocations Committee is funding Dr. Charles Biebel's trip to do final research in the Congregational Library in Boston and the archives at the Sisters of Charity Mother House in Cincinnati on the topic of "Education and Culture - Albuquerque 1875-1895." In the summer of 1977 he did research in the archives of Harvard, Columbia and New York Universities. When he is on sabbatical leave in the fall of 1978 he will complete this work in the Eisenhower, Kennedy and Johnson presidential libraries.

To complement his interests in national social and cul-
tural phenomena, Dr. Biebel has been involved in local historical studies. His research on the results of rapid growth in the City of Albuquerque from 1940-1975 culminated in an hour long television film documentary, "The Edge of the Dream," which was telecast August 24, 1977 on KNME-TV. The program was written and produced with William Baurecht, a graduate student. This work was supported by a New Mexico Humanities Council Project Grant of $1,580 for fall, 1977. His research in preceding years on this topic was also supported by $35,000 in grants from that organization. The documentary has been purchased for permanent showing by the Museum of Albuquerque, the Albuquerque Public Schools and the City of Albuquerque. A half-hour radio tape is currently being produced for the New Mexico Humanities Council.


Since the fall of 1977 Professor Biebel has been an editorial reader for History of Education Quarterly, and he was a media consultant for the New Mexico Humanities Council.
Project on Illegal Aliens. He continues to serve on the Continuing Education Committee and the Native American Studies Advisory Board, and he is faculty advisor for New America. He is also a curriculum and environmental consultant for Monte Vista Elementary School, Albuquerque.


At the National American Studies Association Convention in October, 1977 at Boston, Massachusetts, he read his paper,
"Beyond the Diver Complex: Toward a New Individualism in F. Scott Fitzgerald."

In spring 1978, Professor Gigrus developed and taught an experimental new course, "America on Film," with Edward Mahoney, a graduate teaching assistant. Dr. Gigrus was awarded a grant of $400 from the Greater UNM Fund to support film rental expenses. There was also some support from the Division of Continuing Education which co-sponsored that class. Dr. Gigrus and Mr. Mahoney were interviewed on "U.N.M. Voices" over KNME-TV on February 3 concerning the new course. Professor Gigrus is planning and developing another new course for the fall, "The Jewish Experience in the United States."

In December, 1977 Dr. Gigrus was appointed by President Davis to the University Ad Hoc Committee on Rhodes Scholarships. He is a member of the Arts and Sciences Graduate Committee and serves as chairman of the Arts and Sciences Ad Hoc Committee on the Humanities.

Last fall Professor Gigrus established a Student Learning Service, which enabled students in American culture studies courses throughout the college to obtain tutoring from this department's graduate students.

1977-78 was the first year of Professor Hamlin Hill's joint appointment in English and American Studies. American Humor: From Poor Richard to Doonesbury, the book he co-authored with Walter Blair, was published in the spring of 1978 by the Oxford University Press and has been widely acclaimed. Dr. Hill's article, "Black Humor and the Mass Audience," appeared
in American Humor: Essays Presented to John C. Gerber, published by the Arete Press in 1977, pp. 1-11. An "Introduction" to Thomas Tenney was published in Mark Twain: A Reference Guide by G. K. Hall, 1977, pp. ix-x. Dr. Hill also was guest co-editor of A George Arms Issue of American Literary Realism 1870-1910, volume 10 (Summer, 1977). He is directing a Seminar in Residence for College Teachers funded by a grant of $22,635 from the National Endowment for the Humanities for April, 1978 to June, 1979. Because of his NEH grant, American Studies will be able to work with the English Department in the fall to jointly sponsor a visiting scholar of national repute who will teach subjects relating to both American culture and literary studies. Professor Hill has brought to the department a traditional approach to American Studies and his recognized expertise in American literary realism, humor and popular culture.

Joel Jones, Assistant Provost, continues his interest and service to American Studies through a joint appointment. In 1977 he was appointed to the National Board of Consultants of the National Endowment for the Humanities. In this capacity he participated in three Workshops on Critical Issues in the Humanities, jointly sponsored by the NEH and the Association of American Colleges. He was keynote speaker at one of the workshops.

In addition to his considerable administrative responsibilities, Dr. Jones continues to write and publish scholarly works such as his article, "Marshall McLuhan's Rear-view

Professor Jones also serves on the Board of Editors of American Literary Realism 1870-1910, and he continues as president of the Southwestern Regional Popular Culture Association. The proposal for a major, the recommendation for Professor Bannan's rehiring, and other departmental policy decisions were given assistance by the American Studies Faculty Committee. Members are: George Arms (Emeritus), Ernest Baughman, Robert Campbell, Sanford Cohen, Douglas George, Hamlin Hill, Ira Jaffe, Joel Jones, Harold Rhodes, M. Jane Slaughter, Ferenc Szasz, Anne Taylor and M. Martha Weigle. Dr. Howard Rabinowitz of
the History Department and Dr. Peter White of English were appointed to their first three-year terms. Professors Campbell and Szasz resigned from the committee. Professors Weigle and Slaughter served on a sub-committee concerned with evaluation of Dr. Bannan for rehiring. Professor George once again made a valuable contribution to the department by team-teaching "American Art in Context," a graduate seminar which he helped to develop, with Dr. Girkus.

At the end of the spring semester Professor Gail Baker resigned from her position at this university.

Visiting scholars this year were Professor Alan Trachtenberg of Yale University, who lectured in the fall on "The Brooklyn Bridge: The Origins of American Studies," and Professor Jay Gurian, University of Hawaii at Manoa, who came in the spring to speak on "A White Professor in the Native American World." For its graduate seminar this summer American Studies has recruited Professor M. Martha Weigle of English and Anthropology to teach on the topic of "Folklore in America."

In planning and proposing the new major the chairman utilized his experience as director of a highly successful undergraduate program in American Studies at the University of Alabama. As with the graduate program here, Dr. Girkus emphasized balancing freedom and innovation with structure. To insure a high level of student commitment and achievement, the new program is structured and defined to be rigorous and demanding as well as flexible. Forty-eight hours of coursework are required, and almost all of them will be taken in depart-
ments throughout the college which teach subjects related to American culture studies. An introductory course in American Studies is required. Students will be encouraged to minor or double major in a discipline that improves their abilities to study American culture. Students must devise an advanced program of study in the major, applying previous and current studies to a particular theme or subject in American culture. A required senior seminar completes the program by encouraging a culminating interdisciplinary learning experience, and students will be encouraged to produce a final project or work comparable to an honors thesis.

Undergraduate course offerings continue to be expanded and improved. The increasing emphasis on media studies resulted in a new course, "America on Film," which was developed and taught by Professor Girgus and a graduate student, Edward Mahoney. A $400 allocation from the Greater UNM Fund and the co-sponsorship of the Division of Continuing Education contributed to the success of the new course, which was given a permanent listing.

The new "Internship" course is expected to be well used to link students' academic pursuits with the interests of the community. Another new class, "The Frontier in American Thought," increased the opportunities for regional study which is such a popular specialization in American Studies. Other new courses give evidence of this department's continued support for women and ethnic studies as well as for regional and multicultural topics. They are "The Indian in American

Nine graduate students completed doctoral work in the 1977-78 academic year. The students, their dissertation topics and the dissertation directors are listed below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruth Ann Banes</td>
<td>THE SELF IN CONTEXT: A HISTORY OF AMERICAN AUTOBIOGRAPHY</td>
<td>Joel Jones</td>
</tr>
<tr>
<td>John A. Cantwell</td>
<td>OBSOLESCENCE AND THE AMERICAN KNOWLEDGE WORKER/THE CONTEXT OF EMPLOYER-SPONSORED CONTINUING EDUCATION PROGRAMS</td>
<td>Charles Biebel</td>
</tr>
<tr>
<td>Krystan V. Douglas</td>
<td>BROADWAY THEATRE BETWEEN WORLD WARS AS A REFLECTION OF AMERICAN SOCIAL VALUES</td>
<td>Charles Biebel</td>
</tr>
<tr>
<td>Hollis Elkins</td>
<td>REDEFINING WOMEN</td>
<td>Joel Jones</td>
</tr>
<tr>
<td>John D. Hussey</td>
<td>SYNTHESIS IN HEMINGWAY: FROM DEEP PESSIMISM TOWARD HOPE IN SELECTED HEMINGWAY SHORT STORIES AND NOVELS</td>
<td>Paul Schmidt</td>
</tr>
<tr>
<td>Suzann M. Owings</td>
<td>DELPHI SURVEY OF ORGANIZATIONAL FUTURISTS ON ISSUES AND TRENDS AFFECTING ORGANIZATIONAL APPEARANCE IN 2000</td>
<td>Howard Finston</td>
</tr>
<tr>
<td>Leslie Paul Page III</td>
<td>A SYSTEMS ANALYSIS OF ALBUQUERQUE'S RESCUE SERVICE</td>
<td>Robert Campbell</td>
</tr>
<tr>
<td>Catherine B. Stetson</td>
<td>EZRA POUND'S CANTOS: THE TALE OF THE TRIBE</td>
<td>Hugh Witemeyer</td>
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<td>Henry Tschopp</td>
<td>SIX RADIO COMEDIANS: AN INTRODUCTION AND INVESTIGATIVE STUDY</td>
<td>Ernest Baughman</td>
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</table>
From a total of twenty-one applicants who completed the requirements for applying, twelve candidates were admitted to the American Studies doctoral program this spring. The department's low resources for financial assistance continue to make it difficult to attract some of the well qualified students who express interest in this program. Teaching assistantships in the English Department remain the major source of assistance. Many of our students have been successful in finding other sources: Pat D'Andrea's Title VII Fellowship for Bilingual Multicultural Education was renewed while Rina Swentzell and Ansellmo Arellano have renewed support from Ford Foundation grants. Father Lawrence Burke and Jeanne Whitehouse received Graduate Tuition Fellowships for the coming year. Katherine Bailey and David Kammer had these fellowships for the 1977-78 year. Tobias Duran and Gearld Hobson continued to serve as coordinators in the Chicano Studies and Native American Studies Programs respectively. D. C. Cole taught two courses per semester for Native American Studies while Kyle Ferster Fiore and Susan Kilgore taught Honors Seminars. Mr. Hobson also taught a new course for the department, "The Indian in American Popular Culture." Rina Swentzell of Santa Clara Pueblo and Henrietta Whiteman, a newly admitted Cheyenne woman, were both nominated for Title VII Fellowships by American Studies.

The chairman, supported by the American Studies Faculty Committee, encouraged American Studies graduate students to contribute some of their interdisciplinary knowledge and teaching skills through the establishment of a Student Learning
Service which would provide tutoring for undergraduates who were referred by members of the American Studies Faculty Committee. Ed Mahoney was one of the doctoral students who did tutoring through this new service. A teaching assistant in English, Mr. Mahoney was cited for his outstanding contributions to the Freshman English Program by its director, Professor Lynn Bloom. He further distinguished his teaching career by working with Dr. Girgus to develop and teach the "America on Film" course, and he will continue as teaching assistant in that course next year.

James Robertson and Harriet Bloom represented this department in Europe as Fulbright Junior Lecturers teaching American Studies at the Universities of Barcelona, Spain and Dijon, France. This spring Jerry W. Henderson was nominated for and awarded membership in Phi Kappa Phi Honorary Society.

American Studies graduate students continue their activities in publication. Gearld Hobson edited The Remembered Earth: An Anthology of Contemporary Native American Literature which will be published this summer by Red Earth Press. In spring 1978 Harper and Row published Jeanne Whitehouse’s book for children, I Have a Sister. Pat D’Andrea continues as co-editor of the regional multicultural magazine, La Confluencia. American Studies graduate students on the New America staff devoted lengthy efforts to publishing a special issue in honor of Professor George Arms. They include Marta Field, Ed Mahoney, Alice Kisch, Gearld Hobson, Pat D’Andrea, James Robertson. Grants from the Coordinating Council of Literary Magazines,
the New Mexico Arts Commission, and the UNM Graduate Student Association have funded the publication of this magazine. Ansellmo Arellano has been writing a book on the history and folklore of the Chama Valley which will be published by the Chama Valley School District. He is also working on the production of a videotape documentary on that subject.

Doctoral students were also active participants at various conferences. Nancy Theriot attended the National American Studies Association Convention in Boston in October, 1977 to present a paper on Margaret Fuller. At the same convention Pauline Eisenstadt gave a paper on the community of Corrales. Regina Blackburn read her paper on the biographical writings of African-American women at the Minority Women and Ethnicity Conference at La Crosse, Wisconsin in April. At the Rocky Mountain American Studies Conference this spring in Golden, Colorado, Pat D'Andrea co-presented a workshop on energy issues in the Four Corners region.

Among graduate students who use their skills to serve the community as well as to obtain financial support are Rina Swentzell and Pauline Eisenstadt. Ms. Swentzell is Educational Architect for the Albuquerque Indian School, and Ms. Eisenstadt remains on leave to serve as executive director of New Mexico Energy Consumers, Inc. Jeanne Whitehouse travels to Arizona to teach Navajo students who take courses through the university's field-based teacher education program. Winona Garmhausen continues to direct the art program at the College of Santa Fe.
The Report of the Department of Anthropology
July 1, 1977 - June 30, 1978
Philip K. Bock, Chairman

I. General Departmental Information
A. Significant Achievements During the Academic Year, 1977-78
1) Field School - Survey and partial excavation of a large Pueblo III ruin on public lands near Magdalena was begun by a group under the direction of Dr. Joseph Tainter. As part of this summer course, 23 students from UNM and other colleges in the U.S. participated in the work, which also included instruction in field and analytic techniques and visits to related sites.

2) Other Summer Courses - During the 1977 summer session, the following courses were also taught on the main campus:

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<thead>
<tr>
<th>Course and No.</th>
<th>Instructor</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td>ANTH 110, Language, Culture and Man</td>
<td>Mr. Hamilton</td>
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<td>ANTH 150, Primates and Fossil Man</td>
<td>Mr. Weaver</td>
<td>41</td>
</tr>
<tr>
<td>ANTH 308, Psychological Anthropology</td>
<td>Dr. Bock</td>
<td>52</td>
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</table>

3) Evening Program - During the regular sessions, the following courses were all taught after 4 p.m.; it is our intention to permit students to take most or all of the courses for a major in the evening hours over a four year period.
<table>
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<th>Instructor</th>
<th>Enrollment</th>
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<td>ANTH 110-001, Language, Culture and Man</td>
<td>Fall</td>
<td>Gorbet</td>
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<tr>
<td>ANTH 125-002, Man in Nature</td>
<td>Fall</td>
<td>Campbell</td>
<td>61</td>
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<tr>
<td>ANTH 355-001, Southwest Archeology</td>
<td>Fall</td>
<td>Cordell</td>
<td>48</td>
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<td>Paleon-Indian</td>
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<td>ANTH 341-001, Biosexual Bases of Sex Roles</td>
<td>Spring</td>
<td>Draper, Harpending</td>
<td>46</td>
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<td>ANTH 356-001, Southwest Archeology</td>
<td>Spring</td>
<td>Le Blanc</td>
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<td>Archaic to Present</td>
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<tr>
<td>ANTH 420-001, Topics in Archeology</td>
<td>Spring</td>
<td>Lyons</td>
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4) **Regular Undergraduate Program** - Transition to the new major involving seven required "core courses" continued, with most majors now under the new catalog. This program will be evaluated during the coming academic year and decisions made about adding laboratory and discussion sections to the 100-level courses. Two courses have been moved from 300- to 200-level to fill a gap in our curriculum (231, Behavior of Monkeys, Apes and Men 284, Ancient Mexico; formerly 331 and 384, respectively). It was also decided to modify the requirements for an anthropology minor to permit specialization in a single sub-field; minors must now complete only one of the core course sequences (120-320, or 130-330, or 150-350) plus 15 elective hours.

The new freshman courses ANTH 105 (team-taught by Drs. Froehlich, Straus, and Bock) and 125 (taught by Dr. Campbell) continue to attract several hundred students each semester. It seems likely, however, that the new A&S course, 126, will overlap with our courses and take enrollment from them. (It should be noted that this A&S course was instituted without any consultation with the Anthropology Department. Neither does it seem to have benefited from the year-long study carried out under Dr. Bock's direction in 1970-71, concerning such a course for the social sciences.)
5) Graduate Program – Decreasing academic job opportunities have led the department to be more and more selective in admissions to the graduate program. The Department Graduate Committee under Dr. Schwerin screened 168 applications this year, and offered admission to only 48 new students. This committee has taken fuller responsibility for monitoring progress of students towards graduate degrees; each student now receives at least an annual letter of evaluation and many are called in for interviews with the Committee Chairman or the Graduate Secretary. Relevant data on the graduate program is summarized below.

Registration Data:

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<th>Season</th>
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<th>M.A. Students</th>
<th>Post-M.A.</th>
<th>Doctoral Candidates</th>
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<tr>
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<td>53</td>
<td>31</td>
<td>15</td>
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<tr>
<td>Spring 1978</td>
<td>103</td>
<td>57</td>
<td>26</td>
<td>20</td>
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Degrees Awarded:

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<th>M.A.</th>
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<td>5 (Archeology)</td>
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<tr>
<td>Fall 1977</td>
<td>3 (Ethnology)</td>
<td>2 (Archeology, Ethnology)</td>
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<tr>
<td>Spring 1978</td>
<td>5 (Archeology, Linguistics, Ethnology)</td>
<td>No Ph.D.'s</td>
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<td>Expected Summer 78:</td>
<td>M.A. - 6; Ph.D. - 3</td>
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Terminal M.A.'s Awarded (Summer, 77 - Spring, 78): 6

Number of Graduate Students in Each Subdiscipline as of Spring, 1978:

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<th>Ph.D. Cand.</th>
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<td>Archeology</td>
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<tr>
<td>Ethnology</td>
<td>20</td>
<td>10</td>
<td>5</td>
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<td>Linguistics</td>
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<tr>
<td>Biological</td>
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Applications to Anthropology Graduate Program:

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<th>Accepted</th>
<th>Enrolled</th>
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<tbody>
<tr>
<td>Spring 1978</td>
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<tr>
<td>Fall 1978</td>
<td>118</td>
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(as of June 30, 1978)
Financial Aid Data:
- Research Assistantships (OCA): 3
- Graduate Assistantships: 10
- Project Assistantships: 3 (spring, 1978, only)
- Work Study (Department): 5
- Museum: 3
- NSF Fellowship: 2
- Frieda Butler Fund: 2
- Employment with Office of Contract Archeology: 8
  (One student has just received a Ford Foundation Fellowship)

6) New Faculty - With Dr. Ortiz on research leave to the Center for Advanced Studies at Stanford, Dr. Barrett on sabbatical, and Dr. Cordell on LWOP second semester, we were fortunate to find visiting faculty and instructors who could cover their courses. Dr. Eva Friedlander came from Goucher College for the year; Dr. Keith Basso (Professor, University of Arizona) gave a seminar second semester; Dr. Steven LeBlanc taught a course in Pueblo archaeology; Mr. Steven Athens taught South American archaeology (the area of his now completed dissertation); and Dr. Tom Lyons offered a special course on Remote Sensing in Archaeology.

We were also fortunate to fill two open positions with outstanding candidates. Dr. Jeremy Sabloff (Ph.D., Harvard 1969) will round out the faculty with his extensive knowledge of Mayan archaeology. He also brings to UNM the prestigious editorship of the journal American Antiquity which will occupy him half-time for the next three years. In addition, the newly created position of Chief Curator in the Maxwell Museum (which now carries a 1/3 time faculty appointment) was filled by Dr. Mari Lyn Salvador (Ph.D., UC-Berkeley, 1976). It is expected that this position will bridge the gap between the Museum and the Department, making Museum materials more available for courses and laboratories, while making faculty expertise more available to the Museum research program.

During the year, Dr. J. J. Brody received a well-deserved promotion
to Professor. Two assistant professors (Code 3) were also evaluated for contract renewal. Dr. Lawrence G. Straus's contract was renewed for three years, but Dr. Joseph V. Tainter's was not renewed. Dr. Tainter's resignation was accepted as of the end of Semester I, and a search was initiated for a replacement. After reviewing credentials of more than three dozen candidates, three were invited for interviews, and Dr. Robert Santley (Ph.D., Penn State University, 1977) was chosen. He will join the faculty on a three-year term contract, bringing useful knowledge of the Middle east and the Valley of Mexico.

Finally, after extensive negotiations, an agreement was reached between UNM and the Mimbres Foundation under which Dr. Steven LeBlanc (Ph.D., Washington University, 1971) joined the Department as a Research Professor, bringing with him important collections and research projects relating to the prehistory of New Mexico. He may also teach occasional courses (see above), and will work with our graduate students.

7) New Staff — Ms. Linda Bahm resigned as office manager to go to the Maxwell Museum. She was replaced by Jeanne Rosenthal-Colahan who has done a fine job of taking over the administrative tasks. Freddie Heitman continues as graduate secretary, working closely with the Graduate Committee. A new position of Undergraduate Secretary was filled in the Spring by Ms. Ada Plotner; working with the Chief Undergraduate Adviser she will establish files on Anthropology majors and assist in the evaluation of the new curriculum. The Clark Field Archive which was transferred from the Museum to the Department this year is presently staffed by Rita Ayala (OCETA) and several work-study persons. (Ms. Ayala also handles duplicating services.) Finally, with the assistance of the Dean of A&S, by
combining resources from the Mimbres Foundation, *American Antiquity*, and other grants, we were able to hire a full-time "Archaeology Secretary," Ms. Margaret Guitierrez, with responsibility for correspondence, grant preparation, and manuscript typing.

8) **Colloquia and Harvey Lectures** - Academic activities were at a high pitch during 1977-78, due in part to the large number of distinguished visiting speakers brought under the Harvey Fellowship Program and to the requirement that graduate students and candidates present public colloquia. Many of these presentations were open to the University community and attracted people from other departments. The Harvey Public Lectures (Tuesday nights) also brought interested people from outside the University. (Harvey Lectures will continue next year, but only four to six speakers will be invited.)
TABLE I.
Anthropology Colloquy, Guest Lectures and Harvey Lectures
1977-78

<table>
<thead>
<tr>
<th>Colloquy</th>
<th>Title</th>
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<tbody>
<tr>
<td>Mary Ellen Conaway</td>
<td>Circular Migration Among the Guahibo</td>
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<td>Mari Lyn Salvador</td>
<td>Structural Basis of Kuna Aesthetics</td>
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<tr>
<td>Scott Rushforth</td>
<td>Aspects of Communication Among Bear Lake People: Speaking to Relatives Through Marriage</td>
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<tr>
<td>Joseph Tainter</td>
<td>Social Organization in Native Hawaii</td>
</tr>
<tr>
<td>Pita Kelekna</td>
<td>The Socialization of Aggression Among The Achuara</td>
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<tr>
<td>Eva Friedlander</td>
<td>Durga and Kali: Aspects of Mother Goddess Worship in West Bengal, India</td>
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<td>Kitty Killoran</td>
<td>Women's Roles and How They Change With Economic Development in Spain</td>
</tr>
<tr>
<td>Elizabeth Cashdan</td>
<td>Exchange Networks in Botswana: A Comparison of Two River Regions</td>
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<tr>
<td>Greg C. Burtchard</td>
<td>Subsistence, Environment and Change in Viet Nam</td>
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<tr>
<td>William J. Chasko, Jr.</td>
<td>Resource Structures and Subsistence Mobility in Northeastern Botswana</td>
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<tr>
<td>Frances Joan Mathien</td>
<td>Economic Exchange Systems in the San Juan Basin</td>
</tr>
<tr>
<td>Eric Devor</td>
<td>Historical Demography in the Aland Islands, Finland, 1750-1900</td>
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<tr>
<td>Peter Whiteley</td>
<td>African Models in the South American Lowlands</td>
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<tr>
<td>Karl Schwerin, Pita Kelekna, Peter Whiteley</td>
<td>Report on Recent Amazonia Symposium</td>
</tr>
<tr>
<td>Robert Santley</td>
<td>Archeology in The Valley of Mexico</td>
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<tr>
<td>Stephen Kowalewski</td>
<td>Archeology in The Valley of Oaxaca</td>
</tr>
<tr>
<td>Robert Schact</td>
<td>Archeology in The Middle East</td>
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</tbody>
</table>
### Guest Lectures

**Otto Schondube**, Curator  
*Museo Regional de Guadalajara*

**Jean-Philippe Rigaud**, Director  
of Prehistoric Antiquities  
of the Aquitaine

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### Harvey Lectures

**Dr. Cavalli-Sforza**, Stanford University

**Keith H. Basso**, University  
of Arizona

**Brian Berry**, Harvard University

**Fred Eggan**, University of Chicago

**Richard Lee**, University of Toronto

**Daniel Freedman**, University of Chicago

**Bill Holm**, Curator, Thomas  
Burke Memorial Museum,  
University of Washington

**Derek F. Roberts**, University  
of Newcastle-Upon-Tyne

**Victor Turner**, University of Virginia

**Sir Edmund Leach**, Cambridge University

**Eugene Hammel**, University of California-Berkeley

---

**Shaft Tombs**

**Stone-Age Prehistory of Southwest France**

**Questions and Answers in the Analysis of Human Evolution**

**Portraits of "The Whiteman:" Joking Imitations of Anglo-Americans Among the Western Apache**

**Process Models of Urban Systems**

**Beyond the Bicentennial: The Future of the American Indian in the Perspectives of the Past**

**Concentration-Dispersion: The Dynamic of Movement in Hunter-Gatherer Societies**

**Cross-Cultural Studies of Infancy: A Bio-Social Perspective**

**Willie Seaweed: A Master Artist of the Kwakiutl**

**Genetic Evolution in an Isolated Population**

**Theory of Cultural Performance**

**The Gatekeepers of Heaven: Anthropological Aspects of Grandiose Architecture**

**Experimental History**
I. OBJECTIVES

As a branch of the Department of Anthropology, the Office of Contract Archaeology (OCA) interfaces with public agencies and private concerns to provide cultural resource management information and services. In this capacity, the OCA undertakes research projects to enable compliance with federal and state statutes which mandate the prudent exploitation of our limited and nonrenewable cultural resource base. These projects result in the preparation of scientific monographs and related documents which delineate appropriate preservation and conservation measures designed to evaluate the needs of our urban-industrial society in terms of long-term environmental productivity.

In articulation with public agencies, private clients, and the professional anthropological community, the OCA has established and maintained a record of high performance in each of these sectors (see Supplementary Information).

II. OPERATIONS

Projects include the preparation of environmental impact statements and other evaluations necessary prior to land modification actions. Research activities include, but are not limited to, archival reviews, field investigations, laboratory analyses, and subsequent data manipulation and collation. These activities are rigidly structured
according to fiscal allocations and time frames as specified in contract requirements. Procuring and efficiently implementing projects thus requires administrative and coordinating functions which focus upon proposal preparation, contract negotiation, project scheduling, personnel recruitment, logistics and other considerations requisite to viable performance. As such, management and research must effectively be integrated.

The above tasks involve the professional staff as well as providing opportunities for student training which is a necessary supplement to their formal academic programs. Experience gained by students at the OCA has served to enhance their employment potential in the expanding field of cultural resource management.

III. CURRENT STATUS

Project sponsors are becoming increasingly aware of the research and services provided by the OCA. The publication of research from major projects undertaken in New Mexico has highlighted the capability of the OCA and has resulted in the significant increase of proposal solicitations received by the OCA. However, staff limitations have precluded a response to many of these solicitations. All proposal preparation is executed by the Director and the Assistant Director who must, in addition, monitor ongoing projects to insure that contract obligations are performed in a timely manner. This situation has limited significant research opportunities and concomitantly, student employment and training. An additional permanent adminis-
tractive-research position would ameliorate the above situation. Deficiencies in the physical plant should soon be rectified with the addition of trailer space (see Supplementary Information). This interim solution will provide adequate space and facilities for existing and forthcoming projects until Fall, 1978, when relocation of the Office to a more suitable building is scheduled.

IV. PLANNING AND DEVELOPMENT

The OCA has developed a strategy of contract procurement based upon quality performance with non-competitive cost. Improvements in this approach are contingent upon maximizing research potential and services while attempting to stabilize cost to whatever degree possible. Additionally, efforts are underway to reduce time and money involved in the preparation of large project proposals, with particular emphasis on the increasing demands of Federal solicitations. Unawarded proposals from this sector result in costly "front" effort which has no fiscal recovery.

The maximum integration of students into OCA projects is a desirable objective. Students gain employment as well as experience and data sources for theses and dissertations. In turn, the OCA benefits from this involvement through the new approaches to research designs and other areas of expertise which students may provide.

Resource management projects are on the increase nationwide, and particularly in the western states, where there is a dramatic rise in the number of energy development projects. The OCA is currently
engaged in all phases of such projects. Special emphasis will be
directed towards expanding OCA involvement in initial project
phases (exploratory), which are normally of a middle-to-small
scale. These projects frequently develop into major undertakings
at a later date, and as such, afford greater research potential.
All of these goals are in accordance with OCA's mission as a
research, service and instructional organization and are further
consistent with the more general objectives of the Department of
Anthropology.
SALARIES AND WAGES

A. Director, Office of Contract Archaeology  $18,929.00
B. Research and Projects Coordinator (Archeologist III)  $15,974.00
C. Department Secretary (Clerical Specialist V)  $7,072.00
D. Student Aids  $3,431.00

GENERAL EXPENSES

A. Supplies and Expenses  $3,300.00
B. S&E Anthro Laboratory  $2,530.00
C. Travel  $2,200.00
D. Fringe Benefits  $5,865.00

GRAND TOTAL  $59,300.00
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NPS = National Park Service  
SHPO = State Historic Preservation Office  
BLM = Bureau of Land Management  
BIA = Bureau of Indian Affairs  
USFS = United States Forest Service  
USACOE = United States Army Corps of Engineers
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"Carroll, Charles Stuart, David E. Gauthier, Rory Lent, Stephen C. Lent, Stephen Schalk, Randall Reher, Charles Biella, Jan V. Chapman, Richard C."
## STUDENTS EMPLOYED BY THE OFFICE OF CONTRACT ARCHEOLOGY AND AMOUNTS PAID TO THEM

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<td>Sandia Labs</td>
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<td>101-158</td>
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<td>Pittsburg &amp; Midway Coal Mining Co.</td>
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<td>U.S. Forest Service</td>
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<td>*185-2O</td>
<td>Riconada Canyon Project</td>
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<td>*185-2Q</td>
<td>United Nuclear</td>
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<td>*185-2R</td>
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<td>Archeological Survey, 9 locations &amp; roads</td>
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Description of Physical Facilities at O.C.A.

As presently allocated, the physical facilities at O.C.A. are not adequate to permit full development of the organization's potential and barely permit continuance of the present level of performance. The inadequacies are apparent in both the quantity and the quality of the space allocated. The situation has recently been alleviated to some extent by the addition of one trailer which provides additional office and laboratory space, and the arrival of another trailer in approximately 10 days will further ease the present space situation. However, O.C.A.'s needs will not be fully met until the planned move to space reserved in the former State Health Laboratories is carried out.

The main allocation of space is as follows:

Main Building

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<tr>
<th>Room Type</th>
<th>Square Feet</th>
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<tr>
<td>Offices</td>
<td>500 sq. ft</td>
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<tr>
<td>Lab and Work</td>
<td>1600 sq. ft</td>
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<tr>
<td>Storage</td>
<td>325 sq. ft</td>
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<td><strong>TOTAL</strong></td>
<td><strong>2425 sq. ft</strong></td>
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Trailer

<table>
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<tr>
<th>Room Type</th>
<th>Square Feet</th>
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<td>Office</td>
<td>360 sq. ft</td>
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<tr>
<td>Lab</td>
<td>360 sq. ft</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>720 sq. ft</strong></td>
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In this space, the Office of Contract Archeology must house one or two major projects and numerous smaller projects, all running concurrently. At times, 25 to 35 people are simultaneously employed. The present facilities, therefore, are wholly inadequate in terms of the sheer
requirement for physical space and totally unable to provide the kinds of private space which research and project negotiations require. In addition, the main building has been condemned and is slated for destruction, for reasons which are obvious to anyone who has ever entered it. The general atmosphere is not conducive to optimal employee performance, and presents many health and safety hazards.

It should be clear that any factors which inhibit or delay moving O.C.A. to new quarters will severely impair the ability of this organization to carry out its mission and will certainly limit the size and number of projects which can be undertaken in the future.
Inventory of Major Equipment
(equipment valued at over $400 per item)

5 Bausch & Lomb microscopes
1 Savin 770 copier
3 Selectric electric typewriters (IBM)
1 alidade
1 transit
List of Publications


FRANK J. BROILO

Papers Presented and Professional Participation:

1975 With Charles A. Reher
Research and Mitigation Considerations in the Regional Contract Survey. Paper presented to the Cultural Resource Management Symposium. Society for American Archeology, Dallas, Texas


MARK E. HARLAN

Papers Presented and Professional Participation:


JAN V. BIELLA

Papers Presented and Professional Participation:


Papers Presented and Professional Participation


1974 with F.J. Broilo 
Introductory Statement, New Mexico Archeological Council, Office of Contract Archeology, University of New Mexico, Albuquerque.


1976 with J.V. Biella 


1977 "The Excavation of Room 2, Pendejo Pueblo". Short story delivered at 50th Annual Meeting of the Pecos Conference, Pecos, N.M.

1977 Discussant, "The Northern Rio Grande as Viewed from the Periphery", symposium held during 50th Annual Meeting of the Pecos Conference, Pecos, N.M.
The Chaco Center, a National Park Service supported research facility working in cooperation with the University of New Mexico, continued archeological and environmental studies in and around Chaco Canyon National Monument.

During winter months, analysis and interpretation of data from survey and excavation in Chaco Canyon progressed. The summer was devoted to continuing the excavation of Pueblo Alto, one of the large major ruins in the area. Environmental studies carried out concurrently include palynological, vegetative, and paleoclimatic. A study of the Chacoan "satellite" communities and their relationship to Chaco Canyon was initiated and a preliminary manuscript has been prepared. Remote-sensing techniques were employed extensively in a variety of programs related to Chaco Research.

Reports on the Navajo history of Chaco Canyon, and on an archeological ethnohistory of the Chaco Navajo were completed and submitted for final editing. Other "in-house" reports have been completed and will be reproduced for distribution. A manuscript on the Stone Circles of Chaco Canyon has been completed and is being prepared for publication.

Staff members participated in numerous meetings, symposia, and conferences. Several papers presented at such meetings are being
published. The Chaco Center hosted several conferences, including one on Chaco-Salmon relationships and one on archeomagnetic dating, and is serving as a general clearing house for archeological research in the San Juan Basin.

Personnel consisted of 6 permanent National Park Service employees, 12 part-time laboratory and analytical technicians, 11 seasonal field archeologists, and 3 Navajo laborers.

Drs. Lister and Judge offered a seminar in Analytical Methods in Archeology which was taken by 12 students. In addition, Judge offered individual study courses to 13 students on various aspects of Chacoan and Chaco-related anthropological research.

Cooperative research programs were accomplished, or are continuing, with the University of New Mexico departments of Geology and Anthropology (Office of Contract Archeology), and with the Technology Application Center. Joint research programs also were conducted with other National Park Service divisions, with the Bureau of Land Management, the Bureau of Indian Affairs, the U.S. Geological Survey, the New Mexico Archeological Society, Public Service Company of New Mexico, and several private research foundations.
Division of Remote Sensing

Annual Report, Academic Year 1977-78

(Report prepared by Thomas R. Lyons, Chief, Division of Remote Sensing)

The Division of Remote Sensing, a National Park Service supported research facility working in cooperation with the University of New Mexico, continued archeological and environmental studies in remote sensing in the southwest and throughout the United States.

During winter months, analysis and report preparation progressed on remote sensing assessment of the cultural resources at Hubbell Trading Post NHS, Arizona, Ninety-Six NHS, South Carolina, Fort Union and Hidatsa Indian Villages, North Dakota, the National Petroleum Reserve in Alaska, and the Navajo Indian Irrigation Project, New Mexico.

Research in the application of remote sensing to cultural resource management is underway in the fields of terrestrial photogrammetry at Canyon de Chelly NM, Arizona; monitoring of prehistoric structures at Keet Seel in Navajo NM, Arizona, and Kin Ya'a in Chaco Canyon NM, New Mexico; multispectral scanning and computer pattern recognition from digital imagery at Bandelier NM and Chaco Canyon NM, New Mexico; seismic sounding for underground structures at site 29SJ633, Chaco Canyon NM, New Mexico; and multiband photography at Chalmette NHS, Louisiana.
Student employees at the Division participated in the preparation of an Archive of all Division photographs and maps, acquisition of information in the existing photography of all National Park Service areas in the Southwest Region, and either co-ordinated the contracts or actually performed the analyses and wrote the reports for many of the above listed projects. An extensive report was prepared on the history of research into the Chacoan Prehistoric Roadway Network.

Supplements to the Remote Sensing Handbook by Thomas R. Lyons and Thomas Eugene Avery which was published this year by the Government Printing Office have either been sent to Washington for printing or are being final edited by the Division. Supplements on Practical Exercises in Remote Sensing and Instrumentation in Remote Sensing are in Washington, supplements on remote sensing in the Midwest and the Pacific Northwest, and an extensive Bibliography are in final editing stages. Also published this year were a book titled Aerial Remote Sensing Techniques in Archeology, edited by Thomas R. Lyons and Robert K. Hitchcock, and Remote Sensing and Non-destructive Archeology, edited by Thomas R. Lyons and James I. Ebert. The last book consisted of a series of papers which were prepared by the staff of the Division during this year and presented at this year's meeting of the Society for American Archeology. A motion picture titled "Space Age Archeology" discussing the work of the Division was completed this year by the University of New Mexico Office of Public Information Photo Services and the Division.
Staff members also participated in various meetings, conferences, and symposia ranging from planning sessions for specific Park Service areas to professional organization meetings. One member of the staff attended a week-long course at George Washington University on Computer Processing of Digital Imagery Data.

Personnel consisted of 3 permanent National Park Service employees and 12 full-time and part-time student employees. Two members of the permanent staff received their highest academic degrees from the University of New Mexico and all but one of the full-time and all of the part-time student employees are currently students.

Dr. Lyons, with the assistance of several of the staff members, presented a semester-long course through the Department of Anthropology on "Remote Sensing in Anthropology" to 14 students, two of whom were subsequently hired as part-time employees by the Division.

Cooperative research programs are continuing with University of New Mexico departments of Electrical Engineering, Anthropology, and the Technology Applications Center. Joint research programs are being conducted with other National Park Service agencies, Texas Tech University, the U.S. Forest Service, the Bureau of Indian Affairs, and Mobil Oil Co.

Also during the year, the Division began to expand its philosophical base to include the application of remote sensing techniques to the field of ethnology as well as archeology.
B. Significant Plans and Recommendations

My first year as Chairman was spent learning administrative procedures and priorities. Preparation of the Accreditation Report gave me an opportunity to review events of the last decade and to think about future plans. (Many details of Departmental growth and operation will be found in that report and have not been repeated here.) Whether or not the University is approaching a "steady state," the Department of Anthropology has probably reached a peak of staffing (with 22.34 FTE professional and 3.00 FTE staff positions) and will have to carefully consider and defend retention of present faculty in terms of a well-conceived program. To this end we adopted formal procedures for review of term contracts.

Demand for some of our courses has clearly fallen off over the last five years, and it remains to be seen if changes already made in curriculum and scheduling will be sufficient to reverse this trend. It seems clear, however, that the reclassification of Anthropology in the new A & S group requirements and the offering of a course such as A & S 126 (with lab) will further cut into our lower-division enrollment. (I will submit a further memo on this matter.)

As a result of many studies and meetings, anthropology has been virtually assured of space in the former State Health Laboratory building to make possible the consolidation of archaeological programs (OCA, Mimbres, Field School, and teaching laboratories) with certain teaching and research functions in biological anthropology (especially osteological and primate studies). It will not be easy to allocate this space among the many claimants, but the addition of these facilities should make
possible a more coherent program. In particular, we hope to have a pilot version of a laboratory to accompany Anthropology 150 by 1979 and another to accompany Anthropology 120 the next year.

The new space should also allow us to integrate Contract Archaeology more closely with our academic program. OCA will continue to provide research experience and employment opportunities for our students. Several professors (among them Drs. Binford, Froehlich, Rhine, Schwerin, Weigle, and Workman) now have, or are applying for, research grants that will involve still other students. Within the past year, our students have carried out fieldwork in the Southwest and other regions of the U.S. (including Alaska), and Canada, but also as far abroad as Spain, South Africa, Panama, Australia, and Ecuador.

In general, the Department has maintained a high level of academic productivity and public service (see section II). Our (promised) new facility combined with plenty of hard work should bring about a still higher level of excellence, even though it may be difficult to reverse our declining enrollments over the short run. (Our weighted Student/Faculty Ratio of 22.10 for Semester I, 1977-78 shows that we are still carrying our share of the teaching load.) In the coming year, I hope to go beyond day-to-day administrative problems and to develop programs and policies that will realize the full potential of this Department.
C. Appointments to Staff

Jeremy A. Sabloff, Professor of Anthropology

Effective December 28, 1977

Mari Lyn Salvador, Chief Curator, Maxwell Museum; Assistant Professor of Anthropology

Effective October 1, 1977

Steven A. LeBlanc, Research Assistant Professor of Anthropology

Effective November 1, 1977

Eva Friedlander, Visiting Assistant Professor of Anthropology

Effective August 15, 1977 - May 13, 1978

Keith H. Basso, Visiting Professor of Anthropology


Robert S. Santley, Assistant Professor of Anthropology

Effective August 14, 1978

D. Separations from Staff

Joseph A. Tainter, Assistant Professor of Anthropology

Effective December 29, 1977
II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced Study

Gorbet, Larry P.  
Advanced Sign Language, UNM Department of Communicative Disorders

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

Barrett, Richard A.  
Sabbatical leave, academic year 1977-78

Campbell, John M.  
Field research, Yukon Territory, Canada, June-August, 1977

Froehlich, Jeffery W.  
Field research on Panamanian howler monkeys, July, 1977

Lamphere, Louise  
Sabbatical leave, calendar year 1977

Lister, Robert H.  
Archeological research, Mexico, May, 1977

Ortiz, Alfonso  

Rhine, J. Stanley  
Travel to Belen, New Mexico, to recover skeleton eroding out of ground. Travel to Lincoln, New Mexico, to investigate allegedly human remains near bank of Rio Bonito. Travel to Oklahoma City to visit FAA's Disaster Research Unit.

Straus, Lawrence G.  
Co-director of excavations at La Riera Cave, Asturias, Spain, May-August, 1977.

Weigle, Mary Martha  
Adjunct professor, Ph.D. committee of Martha Twaska, Union Graduate School West

Workman, Peter L.  
Finland, Summer, 1977.

3. New scholastic honors, fellowships, etc.

Harpending, Henry C.  
Participant to MARC grant to Richard Griego (mathematics) for biomathematics training.
New scholastic honors, etc., (cont.)

Ortiz, Alfonso

Rhine, J. Stanley
Selected as "Professor of the Month" by Las Campanas Honorary

Weigle, Mary Martha
Zia Award 'for outstanding New Mexico author), New Mexico Press Women, 23 April 1977.

4. Publications

Barrett, Richard A.


Binford, Lewis R.


Publications (cont.)

Binford, (cont.)
"Historical Archaeology--Lessons from the Nunamiut" in Historical Archaeology and the Importance of Material Things, Leland Ferguson (ed.), Special Publication #2, Society for Historical Archaeology, pp. 17-38.

Bock, Philip K.

Brody, J. J.
Mimbres Painted Pottery, Santa Fe and Albuquerque, School of American Research and University of New Mexico Press, 1977.
Publications (cont.)

Brody (cont.)


Review of Asiatic Influences in Pre-Columbian Art by Paul Shao, Museum News, Vol. 55, No. 5.


Review of Indian Art of the Northwest Coast: A Dialogue on Craftsmanship and Aesthetics by Bill Holm and Bill Reid, Museum News, Vol. 55, No. 4.


Cordell, Linda

Publications (cont.)

Cordell (cont.)


Froehlich, Jeffery W.

Gorbet, Larry P.

Harpending, Henry C.

Judge, W. James


Lamphere, Louise
<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Publication Details</th>
</tr>
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<tbody>
<tr>
<td>Lister, Robert H.</td>
<td>Earl Morris and Southwestern Archaeology with Florence C. Lister; UNM Press, 1977 (paperback reprint)</td>
<td></td>
</tr>
<tr>
<td>Ortiz, Alfonso</td>
<td>&quot;Concerns Central to the Writing of 'Indian' History,&quot; The Indian Historian 10:17-22, 1977.</td>
<td></td>
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<tr>
<td></td>
<td>&quot;A Skeletal Identification Problem&quot; (Case of the Month) Newsletter - Office of the Medical Investigator, Vol. IV, No. 6, pp. 7-9.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;A New Mammillaria Heyderi Variety from New Mexico,&quot; Cactus and Succulent Journal 48:138-139.</td>
<td></td>
</tr>
</tbody>
</table>
Publications (cont.)

Spolsky, Bernard


Spuhler, James N.


Straus, Lawrence G.


"Posible atribución al Solutrense del yacimiento de la Pasiega (Puente Viesgo, Santander)" in Ampurias (Barcelona) 36:217-223.


Sobre "Una revision estratigrafica de la Cueva de la Riera," with G. Clark, in Boletin del Instituto de Estudios Asturianos 91:

"New Radiocarbon Dates for the Spanish Solutrean" with F. Bernaldo de Quiros, V. Cabrera and G. Clark, in Antiquity 51:

"1976 Excavations in La Riera Cave" in Old World Archaeology Newsletter 1(2)10-11.

"The Upper Paleolithic Cave Site of Altamira (Santander, Spain)," Quaternaria 20:270-283.


Publications (cont.)

Workman, Peter L.  

"Admixture Estimates and Selection in Tlaxcala" in The Tlaxcaltecs, with M. H. Crawford, University of Kansas.

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

Alvarado, Anita L.  
Papers accepted for publication: "Autonomy and Legitimacy in Scientific and Ethnomedical Systems"; "Status and Trends in Professional Nursing of Selected Ethnic Minorities: American Indians, Asian-Americans, Blacks, Hispanics"; "Medical Anthropology and the Health Professions"; "Important Factors to Consider in the Integration of Scientific and Ethnomedical Systems"; "Discussion of Kay, Mexican American Fertility Regulation and Barbee, Health Action and Conflict Between Professional Health Actors in Botswana".

Barrett, Richard A.  


Binford, Lewis R.  

(article) "Behavior and Site Structure at Eskimo Hunting Sites" 41 ms. pages, accepted by American Antiquity.

Bock, Philip K.  
<table>
<thead>
<tr>
<th>Researcher</th>
<th>Project Details</th>
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</thead>
<tbody>
<tr>
<td>Brody, J. J.</td>
<td>Organized and supervised installation of a two-part exhibition: &quot;Myth, Metaphor and Mimbreno Art&quot; shown at the Maxwell Museum (UNM) and the Taylor Museum (Colorado Springs) from February through September.</td>
</tr>
<tr>
<td></td>
<td>Designed installation for exhibit of Costa Rican Archaeology to be installed at Maxwell Museum in February, 1978.</td>
</tr>
<tr>
<td>Campbell, John M.</td>
<td>Short story &quot;The Dry Fly Uptown&quot;.</td>
</tr>
<tr>
<td></td>
<td>Area Handbook - The Application of Remote Sensing to Southwestern Archaeology, with Thomas A. Lyons (to be published by the Chaco Center, expected publication date, Fall, 1978).</td>
</tr>
<tr>
<td>Froehlich, Jeffery W.</td>
<td>Continuing cooperative study with V.A. and Medical School on nutritional problems in Japanese monkeys (V.A. support $4000).</td>
</tr>
<tr>
<td></td>
<td>Continuing study of social ecology and population structure of howler monkeys in Panama. (Funded by RAC, $1500, and Smithsonian Institution, $3000).</td>
</tr>
<tr>
<td></td>
<td>BLM Grant, $84,000, Paleontological Survey, Resource Assessment, and Mitigation Plan for the Bisti-Star Lake Area, Northwestern New Mexico.</td>
</tr>
</tbody>
</table>
Other Research Projects, etc. (cont.)

Gorbet, Larry P.  
"Meta-quotation as a design feature of language"; social constraints on quotation; syntactic processes in discourse; computer-based linguistic field data files, with special attention to problems of inter-system and inter-language compatibility.

Harpending, Henry C.  
"The Population Genetics of Interactions" accepted in American Naturalist.

Judge, W. James  
Preparation of evolutionary model of cultural development, San Juan Basin, New Mexico.


Lamphere, Louise  

Lister, Robert H.  
Chaco Canyon Project (joint UNM-National Park Service

Ortiz, Alfonso  
Critical Bibliography of Works in North American Indian Literature (with Margaret D. Ortiz), completed December, 1977, and submitted to Newberry Library for consideration in their critical Indian bibliographies series.


History of Stereotypes of the Indian in American Culture (in progress, 1977-78)

To Carry Forth the Vine (an anthology of Indian poetry, with M. D. Ortiz), only introduction unwritten.

Rhine, J. Stanley  
Assessment of illegally-removed skeletal material for U. S. Forest Service.

Continuation of work on facial restorations, and several faces done. Additional data collected and analyzed.
Other Research Projects, etc. (cont.)

Rhine (cont.)
Acquisition and beginning of preparation and analysis of large collection of Mimbre skeletal material.

Rushforth, E. Scott
Field research among the Bear Lake Indians, May 15-July 6. Project Title: Language variation and tribal identity among the Bear Lake Indians. Faculty Research Allocations Grant.

Salvador, Mari Lyn
National Endowment for the Arts Grant—exhibition of photographs and text based on research in the Azore Islands and in California.

Schwerin, Karl H.
Continuing work with E. F. Castetter and Prince Pierce on Cacti of New Mexico, including several spinoff papers. Research for papers presented at annual meetings of Southwestern Anthropological Association and American Society for Ethnohistory.

Sebring, James M.

Research into religious education and the transmission of beliefs and values in the Roman Catholic elementary and secondary education system of Albuquerque and other selected Catholic schools in New Mexico.

Research into the social and economic organization of religious orders in New Mexico, with particular emphasis upon recruitment to the orders.

Spolsky, Bernard
Directed National Endowment for the Humanities Summer Seminar for College Teachers on Bilingualism.

Case Studies in Bilingual Education (in press).

Educational Linguistics (in press).

Other Research Projects, etc. (cont.)


Concluded research for a review article on Biology, Speech, and Language. Continued work on a textbook on human evolution. Continued work on monographs on Microevolution in Native North America and on Microevolution in Egypt and Nubia since the Mesolithic.

Straus, Lawrence G. N.S.F. Grant (continuing), $70,000, La Riera excavation.


Completed final work on manuscript for UNM Press (to be published June, 1978), co-editor with Charles L. Briggs, to be entitled "Hispano Folklife of New Mexico: The Lorin W. Brown Federal Writers' Project Manuscripts".

Workman, Peter L. Research on population structure in Aland, Finland. Support from Sigrid Juselius Foundation, Helsinki annual grant.

Co-investigator - joint Soviet/US study on adaptation of Siberian and Eskimo (Alaskan) populations.

Co-investigator - study on aging (with Prof. Crawford from Kansas University).

6. Activities in Learned and Professional Societies.

Activities (cont.)

Alvarado (cont.)  Pan American Health Organization, paper presented: "Important Factors to Consider in the Integration of Scientific and Ethnomedical Systems".

Nursing Research Meetings, paper read: "Discussion of Kay, Mexican American Fertility Regulation and Barbee, Health Action and Conflict Between Professional Health Actors in Botswana".

American Indian Nurses' Association, paper read: "Comparison of Statuses of Indian Nurses with Selected Problems in the Data Bases".


"Changes in Kpelle Fatherhood Patterns", paper read at the 1977 meeting of the American Anthropology Association meetings, Houston, Texas.


Brody, J. J.  Member of Steering Committee (and chief executioner) of American Association of Museums.

Attended Annual Meeting of American Association of Museums.


Activities (cont.)

Cordell (cont.)

Draper, Patricia
As co-editor of Ethnologist, attended meeting of editorial board at American Anthropology Association meetings in Houston, Texas, November, 1977.


Gorbet, Larry P.

"Fisher's Theorem for Inclusive Fitness", paper read at meeting of American Association of Physical Anthropologists, Seattle.

Harpending, Henry C.
Gave talk at Department of Genetics, University of Washington.

Judge, W. James
Elected member of Executive Committee, Southwestern Anthropological Association.


"The Emergence of Complexity in Chaco Canyon, New Mexico", paper presented as symposium participant, A.A.A. Meetings, November, 1977.

Meetings attended: S.A.A., A.A.A., SARG, Pecos Conference.

Lamphere, Louise
"Women, Work and Ethnicity" prepared for the Center for Studies of Metropolitan Problems (NIMH).

Seminar Series on "The Urban Struggle: Woman and Work".
Activities (cont.)

Lamphere (cont.)

Lister, Robert H.
Pecos Conference, Gran Quivira Conference, Society for Historical Archaeology

Ortiz, Alfonso
Attended Society for Ethnohistory meetings, Chicago, October, 1977.


Rhine, J. Stanley


Salvador, Mari Lyn

Schwerin, Karl H.


Activities (cont.)

Spolsky, Bernard


Invited participant to the Pre-Conference Session of the Four Corners States Conference, Santa Fe, New Mexico, September 30, 1977. Lecture: Separatism, cultural pluralism and bilingual education.


Keynote speaker at National Elementary Education Association Convention on Bilingual-Bicultural Education Comes of Age, San Francisco, California, December 8-10, 1977. Paper: Now that We're "of age" - What's the Plan for Tomorrow?"

Appointed member, Editorial Board, Studies in Second Language Acquisition, 1971-.

Elected Secretary-Treasurer, American Association of Applied Linguists, 1977-80.

Spuhler, James N.

Served as President, American Association of Physical Anthropologists and attended its annual meeting, Seattle, 13-16 April.
Activities (cont.)

Spuhler (cont.)
Read paper at the 50th Anniversary Meeting, Pecos (Archaeological) Conference, 19-21 August.

Straus, Lawrence G.

Weigle, Mary Martha

Publications Editor, American Folklore Society, appointment as of Nov. 1977.

Editor, Folklore Feminists Communication (to be changed to Folklore Women's Communication, a newsletter of the Women's Section of the American Folklore Society.

Second Vice-President, New Mexico Folklore Society.

Workman, Peter L.

7. Other Professional Activities.

Alvarado, Anita L.
Consultant, Wiche on medical anthropology.

Review articles for Ethnohistory.

Geriatric Workshop for New Mexico Nurses Association. Paper: Sociocultural Aspects of Aging".

Consultant for attorney on ethnicity.

Grant proposal review, National Science Foundation.

Danforth Fellowship Committee, Ford Foundation Fellowship Committee, Program for Mexican Americans.
Other Professional Activities (cont.)

Barrett, Richard A.  

Reimbursed review of the manuscript of an introductory textbook, for Holt, Rinehart and Winston, May, 1977.

Binford, Lewis R.  


Bock, Philip K.  
Interview for special program on homosexuality, KGGM-TV, scheduled for December, 1977.

Brody, J. J.  
Consultant: Museum of Albuquerque, Acoma-Sky City Pueblo Tourist Center and Museum, U. S. Forest Service (theft of archaeological property)

Mimbres Valley Museum Committee.

Board Member: Ghost Ranch Museum, Fine Arts Advisory Board, City of Albuquerque.

Editorial Board: American Indian Arts and American Indian Review.

Reader: NEA, NSF, NEH grant proposals.

Juror, New Mexico State Fair; many public lectures, some radio, TV.

Campbell, John M.  

Lecture on "Arctic and Subarctic" to Arctic Institute of North America annual members lecture, Calgary, Alberta, March, 1977.

Cordell, Linda S.  
Served as archaeological consultant, Santa Rosa de Lima Project, Abiquiu, N.M., Spring and Summer, 1977.
Other Professional Activities (cont.)

Cordell (cont.)
Wrote the social science section of the text and teaching manual "Man and His Systemic Environment" (tentative title) for the Albuquerque Public School system.

Guest lecturer in General Honors Program Seminar on Darwin and Evolution, Spring, 1977, and in graduate Proseminar in Sociology, Fall, 1977.

Gave two three-hour sessions on southwestern archaeology for the docents of Maxwell Museum of Anthropology, Fall, 1977.

Draper, Patricia
Gave lecture for the New Mexico Humanities Council.


Froehlich, Jeffery W.
Research consultant, V.A. Hospital, Albuquerque, N.M.

Gorbet, Larry P.
Invited participant at Third Yuman and Hokan Languages Workshop, Salt Lake City, June, 1977.

Judge, James W.
Guest lecturer: American Institute of Archaeology, School of American Research, Eastern New Mexico University, Albuquerque Archaeological Society, Story of Albuquerque.

Lamphere, Louise
"Women's History, the View from Other Disciplines" - presentation on Anthropology and Women's History for the Organization of American Historians meeting, Atlanta, Georgia, April, 1977.

Ortiz, Alfonso
Chairman, External Review Committee, Department of American Indian Studies, University of Minnesota.

Member, Committee on the Status of Minorities and Women in Science, National Research Council.
Other Professional Activities (cont.)

Ortiz (cont.)

Member: National Humanities Faculty, Minorities Advisory Committee, Danforth Foundation.

Chairman, Selection Committee, Doctoral Fellowships for Native Americans, Ford Foundation.

Member of editorial boards for six journals.

Grant reviewer for Wenner-Gren, NSF, SSRC, NEH, and NEA.

Rhine, J. Stanley


Talk, "Osteology as a Means of Extending Archaeological Insight", Ghost Ranch, New Mexico, Aug. 16-17, 1977.


Continued as Associate Curator for Physical Anthropology, Maxwell Museum

Schwerin, Karl H.


Consultant, Office of Contract Archaeology.

Spolsky, Bernard

Consultant on linguistics program, College of Arts and Sciences, New Mexico State University, Las Cruces, New Mexico, April 14-15, 1977.


Spuhler, James N.

Member, Assembly of Behavioral Sciences, National Research Council, 1973-
Other Professional Activities (cont.)

Spuhler (cont.) Member, Editorial Board, Annual Review of Anthropology, Palo Alto, California.
   Elected to Membership, Editorial Board, American Society of Naturalists (1978-)

Weigle, Mary Martha

   Consultant to NICHO, Sudden Infant Death Syndrome, August, 1977.
   Organizer - International Symposium on Structure of Isolate Populations to be held in Finland, 1978.


   Alvarado, Anita L. Faculty Senate, Curricula Committee, Undergraduate Academic Affairs Committee, Coordinator for Harvey Distinguished Lecture Series (through August), Women's Studies Center Selection Committee, President's Committee on Minority Concerns, Gerontology Curriculum Committee, Native American Studies Advisory Committee, etc., etc.

   Barrett, Richard A. Chairman, Departmental Ethnology Committee, Jan-May 1977

   Binford, Lewis R. Chairman, A&S Social Sciences Promotion Committee.
   Member, A&S Tenure Committee.

   Bledsoe, Caroline H. Library Committee, Fall, 1977. Library Liaison for Anthropology Department, Spring, Fall, 1977.
### Non-teaching University Service (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Role</th>
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<tbody>
<tr>
<td></td>
<td>AF&amp;T Committee, January to May, 1977. Chairman of 3 Ph.D. Committees; advisor to 4 new graduate students.</td>
</tr>
<tr>
<td></td>
<td>Co-ordinator of Latin-American Programs (with U.A.G., Guadalajara)</td>
</tr>
<tr>
<td>Brody, J. J.</td>
<td>Director, Maxwell Museum of Anthropology.</td>
</tr>
<tr>
<td></td>
<td>Member: Advisory Committee, Fine Arts Museum, UNM; Fund Raising Advisory Council, Maxwell Museum Association.</td>
</tr>
<tr>
<td>Campbell, John M.</td>
<td>Chairman, Board of Archaeologists, UNM.</td>
</tr>
<tr>
<td></td>
<td>Member, Faculty Senate, UNM.</td>
</tr>
<tr>
<td>Froehlich, Jeffery W.</td>
<td>Research Policy Committee.</td>
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<tr>
<td>Gorbet, Larry P.</td>
<td>Anthropology Department Graduate Committee.</td>
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<td></td>
<td>Linguistics Department Policy Committee.</td>
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<tr>
<td></td>
<td>Advisor to three graduate students.</td>
</tr>
<tr>
<td>Harpending, Henry C.</td>
<td>Committee on designing interdisciplinary introduction to social sciences.</td>
</tr>
<tr>
<td>Judge, W. James</td>
<td>Committee Chairman for five doctoral candidates.</td>
</tr>
<tr>
<td></td>
<td>Sponsor: 5 masters candidates.</td>
</tr>
<tr>
<td>Lister, Robert H.</td>
<td>Chief, Southwest Cultural Resources Center - NPS.</td>
</tr>
<tr>
<td>Ortiz, Alfonso</td>
<td>Advisor or co-advisor to nine graduate students in three departments.</td>
</tr>
<tr>
<td>Rushforth, E. Scott</td>
<td>Member, Undergraduate Committee, Dept. of Anthropology.</td>
</tr>
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<td></td>
<td>Member, Native American Studies Advisory Board.</td>
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Non-teaching University Service (cont.)

Rhine, J. Stanley
Continued as Anthropology consultant to Office of the Medical Investigator, State of New Mexico.

Schwerin, Karl H.
Research Policy Committee, Faculty Library Committee, Search Committee for Appointee in Latin American Studies, A&S Graduate Committee.
Chairman, Anthropology Graduate Committee.

Sebring, James M.
In charge of Harvey Lecture Series and arrangements.
Undergraduate ethnology advisor.
Member, University Subcommittee for Asian Studies.

Spuhler, James N.
Chairman (Spring), Member (Fall), University Press Committee.
Member, Library Committee, Maxwell Museum of Anthropology.
Editor, Journal of Anthropological Research.

Straus, Lawrence G.
Board of Archaeologists.
Chaired one M.A. committee; served on two others and on two doctoral committees.
Advised an undergraduate honors project.

Weigle, Mary Martha
University Press Committee; Student Publications Board; Advisory Board for new Literary/Arts Magazine; Board of Directors, Maxwell Museum Association.

Workman, Peter L.
Director, Undergraduate Studies, Department of Anthropology.
Counselor, Hillel/Jewish Student Union, University of New Mexico.

9. Public Service

Alvarado, Anita L.
Finance Committee, Queen of Heaven Catholic Church.
Public Service (cont.)

Alvarado (cont.) Finance Committee, Sangre de Cristo Catholic Church.

Programs presented to Central New Mexico German Shepherd Dog Club: "Selecting a Show Quality Puppy: Biological and Psychological Factors" and "Nutritional, Psychological and Educational Necessities in Raising German Shepherd Pups".

Barrett, Richard A. Chairman, Committee on Education, Partners of the Americas.


Advisor - Albuquerque Museum Planning Board.

Brody, J. J. New Mexico Cactus and Succulent Society.

Froehlich, Jeffery W. Audubon Wildlife Film Committee.

Judge, W. James Advisory Council, Explorer Post #296.

Ortiz, Alfonso President, Association on American Indian Affairs, Inc., New York, N.Y. (since 1973)

Member of Board, Institute for the Development of Indian Law; also for American Indian Institute.

Member, Board of Trustees, Santa Fe Preparatory School.

Schwerin, Karl H. Vice President, Parents Without Partners, Inc.

Vice President, New Mexico Cactus and Succulent Society.

Sebring, James H. Member of the Board, Archbishop's School Fund (Archdiocese of Santa Fe)

Member, Subcommittee for Policy-making and Policy Review, Catholic School Board (Archdiocese of Santa Fe)
Public Service (cont.)

Weigle, Mary Martha

Board of Directors, Santa Fe Historical Society.

Planning Committee, Southeast Neighborhood Association, Santa Fe.
The Office of Contract Archeology, Department of Anthropology, during the past year has continued to provide professional research services to public agencies and private concerns pertinent to federal and state authorities regulating the management of our cultural resources base. The Office of Contract Archeology acting in this capacity reflects the University of New Mexico's concern for the prudent use of our limited and nonrenewable cultural resources. Over the past year the Office has expanded its research directions to encompass studies of extant cultures in New Mexico ethnographically, in addition to the original focus upon archaeological resources. This augmentation of research capability is fully consistent with the letter and intent of cultural resource management law. The Office is now in the position to comprehensively document and interpret the changing character of cultural groups inhabiting New Mexico. Linking archeological evidence and ethnographic data has served to significantly enhance our understanding of man's occupation of New Mexico and the greater southwest.

Projects undertaken by the Office result in the preparation of scientific monographs and related documents which provide information concerning the nature and significance of cultural resources as well as appropriate preservation and conservation measures designed to sustain the long-term productivity of environment.
Since the inception of the Office in September of 1973, federal and private development projects in New Mexico have increased dramatically. The Office has established and maintained a record of high performance in responding to the needs of government and industry (see Supplement A, Total Contract Awards). During FY 1977-78, the Office in addition to undertaking new projects from established clients has expanded its visibility as a viable research organization to gain new clients. From this sponsor base the potential for contract research has increased for FY 1978.

II. Personnel

Dr. Mark Harlan replaced Dr. David E. Stuart who resigned effective October 1, 1977. Dr. Harlan has served as Assistant Director effective October 1, 1977.

Other personnel at the Office are employed on a project specific basis and thus rotation of staff occurs frequently. This is particularly the case with personnel involved in limited projects.

III. Research Projects

In general, projects include the preparation of environmental assessments, environmental impact statements and limited research specific to client's ad hoc needs. Projects may be segmented into various research phases. These would include, proposal preparation, contract negotiation, administrations, field work involving ground survey and site excavation, various laboratory analyses, and report preparation. The efficient administration of contract research requires close coordination and careful considerations of research scope, cost-effectiveness, personnel recruitment, scheduling, logistics and other matters essential to quality performance. These tasks involve the close articulation of the Office professional
staff, faculty from the Department of Anthropology and qualified students. In this latter area, the Office over the past year has continued to provide opportunities for student training and thus supplement academic training. In this regard, students employed by the Office have gained valuable experience, and thereby have enhanced their professional potential in the expanding field of cultural resource management, an increasing source of employment for anthropologists.

Specific projects of note includes the completion of the extensive research program conducted for the United States Army Corps of Engineers construction of the Cochiti Dam and Reservoir. Two volumes of this four volume series reporting on the research results have been published. Prepared by Jan V. Biella and Richard C. Chapman, the two remaining volumes will be published in FY 1977-78. This project involved the intensive survey of archaeological sites and resulted in the testing and excavation of some 20 sites on exhibiting evidence for 40 phases of human occupation in the project area. Research has focused upon explicating and explaining human responses to environmental variability in White Rock Canyon, New Mexico over a temporal span of 7,000 years.

Under the project supervision of Ros Hunter-Anderson, research for the proposed Yellowhouse Dam and Reservoir located on the Zuni Reservation was completed. Total survey area comprised approximately 6,400 acres exhibiting high densities of cultural resources. A final environmental impact statement was submitted to the Bureau of Indian Affairs. Publication of this report by the Bureau of Indian Affairs will be forthcoming during the next year.
Additional work with the National Park Service Chaco Center was implemented by two contracts for research at Chaco Canyon, New Mexico and the Center's Remote Sensing Division. As may be referenced in Supplement A numerous other research contracts were undertaken primarily focusing on private energy-seeking projects and management programs sponsored by the Bureau of Indian Affairs and United States Forest Service. Under the direction of Dr. Mark Harlan, Assistant Director of the Office, several surveys and limited mitigation and testing programs on cultural resources were limited. All of these projects resulted in the submittal and acceptance of research reports by various federal agencies.

Under contract with the National Park Service, Division of Cultural Resources, David Eck supervised the collation of cultural resource data in the San Juan Basin. The objective of this study is to enable the formulation of predictive mechanisms for site density in an area of maximum adverse impact due to coal and natural gas exploitation.

IV. Other Activities

Personnel from the Office have attended various professional meetings and presented papers. In addition Frank J. Broilo, Director of the Office was elected as the first Chairman to the newly incorporated New Mexico Archeological Council composed of archeologists, agency representatives and other interested parties involved in cultural resource management activities in New Mexico and adjacent states. The professional staff is preparing and have also contributed monographs, and papers for publication in various contract reports, and nationally recognized journals and books.

As planned during the previous year, an exhibit displaying the research activities of the Office has been completed in the Department of Anthropology. Planning for the past year has focused upon refining research
strategies, the effective collation of data from various projects, a statewide research design, additional publications and the need for more research and administration facilities.
Supplement A

Total and 1977-78 Contracts

Awards and Publications

Frank J. Broilo, Principal Investigator, Director

Mark Harlan, Assistant Director
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Phone</th>
<th>Company</th>
<th>Description</th>
<th>Amount</th>
<th>Date</th>
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<td>185-2A</td>
<td>281-541-100</td>
<td>Anaconda</td>
<td>Services Relocation of SAR sites</td>
<td>1,239.00</td>
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<td>185-3</td>
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<td>185-152A</td>
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<td>Bureau Indian Affairs</td>
<td>Yellowhouse Amendment</td>
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<td>Fosberg</td>
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<td>281-541-100</td>
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<td>Survey on Kirtland AFB</td>
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<td>Anaconda</td>
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<td>Arch. Survey of 2 powerline relocations, sections 19, 20, T30N, R15W, San Juan Co.</td>
<td>$945.00</td>
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<td>5 mine sites - Dalton Pass</td>
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<td>NPS - Chaco Center</td>
<td>Fire Effects &amp; Fire Suppression Efforts</td>
<td>$27,303.00</td>
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<td>Gatewood Newberry</td>
<td>Main Canyon, Datil Mountains - Survey</td>
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<td>Woodward Clyde</td>
<td>Archeological Survey - Black, Red, Blue, Green Rights-of-way</td>
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<td>El Paso Comm. Coll.</td>
<td>Mitigation - Transmountain Campus</td>
<td>$78,975.00</td>
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<td>185-2I</td>
<td>281-541-100</td>
<td>United Nuclear</td>
<td>Demarcation of arch. sites w/in 5 mine sites, Dalton Pass</td>
<td>$210.00</td>
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<td>185-14</td>
<td>281-611-100</td>
<td>BLM</td>
<td>Cultural Resource Inventory, Las Cruces Dist.</td>
<td>$24,829.00</td>
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<td>281-609-100</td>
<td>Anaconda</td>
<td>Arch. Mitigation, SM:2, AI-1, OC:5, and Locations 4, 5, 6 and 7</td>
<td>$26,948.00</td>
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<td>185-2J</td>
<td>281-541-100</td>
<td>Kerr-McGee</td>
<td>Intensive survey of 2 linear tracts of land on Kerr-McGee and BLM lands</td>
<td>$1,158.00</td>
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<td>Yellowhouse transfer of funds</td>
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<td>NPS - Chaco</td>
<td>Chaco Center Analysis</td>
<td>$94,987.00</td>
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<td>281-605-100</td>
<td>NPS - Remote Sensing</td>
<td>Remote Sensing Division Analysis</td>
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<td>Kerr-McGee Nuclear</td>
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<td>185-18</td>
<td>281-621-100</td>
<td>Continental Oil</td>
<td>Linear Survey of 12.4 miles on Navajo Tribal lands &amp; Laguna Pueblo lands</td>
<td>$2,105.00</td>
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<td>185-19</td>
<td>281-615-100</td>
<td>Pub. Service Co.</td>
<td>Arch. Survey of 13.5 Linear Miles on Santa Clara Pueblo lands &amp; Private Grant lands</td>
<td>$1,610.00</td>
<td>$396.00</td>
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<td>185-20</td>
<td>281-615-100</td>
<td>US Forest Service</td>
<td>Collection, Processing &amp; Analysis of Arch. Data from US Forest Service Lands</td>
<td>$15,349.00</td>
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<td>Pub. Service Co.</td>
<td>Amendment to 185-19</td>
<td>$809.00</td>
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<td>185-22L</td>
<td>281-541-100</td>
<td>United Nuclear</td>
<td>Arch. Survey of 7.5 linear miles in Dalton Pass for power line clearance</td>
<td>$1,104.00</td>
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<td>185-2M</td>
<td>281-541-100</td>
<td>Salt River Project</td>
<td>Arch. Survey of Approx. 15 Proposed Drill Sites</td>
<td>$827.00</td>
<td>$133.00</td>
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<td>185-2N</td>
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<td>US Forest Service</td>
<td>Excavation of Site AR-03=06-05-120</td>
<td>$430.75</td>
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<td>185-2O</td>
<td>281-541-100</td>
<td>Riconada Canyon Project</td>
<td>Arch. Survey, 9 drilling locations &amp; access road</td>
<td>$992.00</td>
<td>$205.00</td>
<td>12-02-77</td>
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<td>185-2P</td>
<td>281-541-100</td>
<td>United Nuclear</td>
<td>Arch. Survey of 1.2 sections of Dalton Pass property</td>
<td>$1,492.00</td>
<td>$324.00</td>
<td>12-14-77</td>
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<td>185-2Q</td>
<td>281-541-100</td>
<td>United Nuclear</td>
<td>Arch. Survey of 1.8 miles</td>
<td>$729.00</td>
<td>$157.00</td>
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<td>101-172</td>
<td>281-369-2</td>
<td>Utah International</td>
<td>Mitigation plan for 101-172</td>
<td>$250.00</td>
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<td>185-2R</td>
<td>281-541-100</td>
<td>Frontier Mining</td>
<td>Arch. survey of 2 drilling locations</td>
<td>$642.00</td>
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<td>185-2S</td>
<td>281-541-100</td>
<td>Akla, Inc.</td>
<td>Arch. Surv. 1.0 Drill Sites, Borrego Pass</td>
<td>$1,270.00</td>
<td>$252.00</td>
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<td>185-2T</td>
<td>281-541-100</td>
<td>Columbus, Inc.</td>
<td>Arch. survey, 14 drill sites, Rio Arriba Co.</td>
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<td>35-21</td>
<td>281-541-100</td>
<td>Utah International</td>
<td>Mitigation Plan for 611.8 acres, Mining Strip 3</td>
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<td>$47,714.00</td>
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<td>185-23</td>
<td>281-541-100</td>
<td>Bureau of Indian Af.</td>
<td>Budget Estimate for Services</td>
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<td>Public Service Co.</td>
<td>Arch. Testing of 3 Localities</td>
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<td>185-24</td>
<td>281-541-100</td>
<td>City of Albuquerque</td>
<td>Survey of Two Power Lines</td>
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<td>185-2V</td>
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<td>Anaconda Co.</td>
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<td>$300.00</td>
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<td>183-2W</td>
<td>281-541-100</td>
<td>D.E. Brown</td>
<td>Archeological Survey of 0.5 Acres</td>
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<td>$72.00</td>
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<td>Pub. Serv. Co. of NM</td>
<td>Archeological Survey of 9 Quality Control Wells</td>
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<td>Survey of 200,000 Acres—Fort Bliss Military</td>
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<td>185-28</td>
<td>Pittsburg Midway Co.</td>
<td>A Program—Archeological and Ethnohistoric</td>
<td>$402,598.00</td>
<td>$84,127.00</td>
<td>5-26-78</td>
<td>Stuart</td>
</tr>
<tr>
<td>185-2Z</td>
<td>BIA</td>
<td>Reproduction of the Yellow House Site Inventory</td>
<td>$360.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>185-2AA</td>
<td></td>
<td>Duval Corporation</td>
<td>Arch. Survey of Approx. 0.6 Sections of Land</td>
<td>$1,951.00</td>
<td>$407.00</td>
<td>6-1-78</td>
</tr>
<tr>
<td>185-2BB</td>
<td></td>
<td>Mr. Wayne W. Hickson</td>
<td>Arch. Survey of One Drill Hole—Cibola Nat'l</td>
<td>$323.00</td>
<td>$62.00</td>
<td>6-1-78</td>
</tr>
<tr>
<td>185-2CC</td>
<td></td>
<td>The Anaconda Co.</td>
<td>Arch. Survey</td>
<td>$2,120.00</td>
<td>$431.00</td>
<td>6-1-78</td>
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<tr>
<td>185-2D</td>
<td></td>
<td>The Tennessee Valley Est.</td>
<td>Chgs. per Proj. Day of Arch. Services</td>
<td>$11,695.00</td>
<td>$2,624.00</td>
<td>22-78</td>
</tr>
<tr>
<td>185-2DD</td>
<td></td>
<td>Pub. Serv.—Union Oil</td>
<td>Arch. Survey Approx. 2.96 Sects. Baca Geothm</td>
<td>$11,695.00</td>
<td>$2,624.00</td>
<td>22-78</td>
</tr>
<tr>
<td>185-2EE</td>
<td></td>
<td>Pub. Serv. Co. N.M.</td>
<td>Arch. Survey WW-BA 345 KV Transmission Line</td>
<td>$424.00</td>
<td>$83.00</td>
<td>22-78</td>
</tr>
<tr>
<td>185-2FF</td>
<td></td>
<td>The Anaconda Co.</td>
<td>Arch. Test. Site OCA:SH:1; Locality 2, Jackpile</td>
<td>$448.00</td>
<td>$82.00</td>
<td>28-78</td>
</tr>
<tr>
<td>185-31</td>
<td></td>
<td>Ideal Cement Co.</td>
<td>Arch. Survey of Approximately 10 Acres</td>
<td>$623.00</td>
<td>$126.00</td>
<td>28-78</td>
</tr>
<tr>
<td>185-32</td>
<td></td>
<td>The Anaconda Company</td>
<td>Arch. Surv. Approx. 3836.19 Acres on Jackpile</td>
<td>$20,892.00</td>
<td>$4,740.00</td>
<td>28-78</td>
</tr>
<tr>
<td>185-2GG</td>
<td></td>
<td>El Paso Gas Company</td>
<td>Arch. Surv. &amp; Assess. of Approx. 16,016.77 Acres</td>
<td>$100,758.00</td>
<td>$21,974.00</td>
<td>18-78</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mountain Bell</td>
<td>Arch. Surv. of Approx. 4 linear miles of Cable</td>
<td>$575.00</td>
<td>$129.00</td>
<td>27-78</td>
</tr>
</tbody>
</table>
I. Significant achievements during fiscal 1977-78.

The museum was used as a teaching laboratory on a regular basis by six UNM classes and on occasion by eight others. Several dozen other UNM classes were assigned to visit and report on its exhibitions and materials from its collections were transported to several classrooms for instructional use. Two professional colloquia by visiting scholars were held there. Significant new and valuable research resources were added with acquisition of the Mimbres Foundation collections and its photographic files and other archives. One thesis and more than eighteen other student research papers based on the museum or its collections are known to have been written. The museum (with UNM Press) published two new books.

Specialized services performed at the museum and/or by its staff included identification, conservation, restoration, archaeological analyses, and osteological removal and analysis done for the UNM Field School, the Bernalillo County Medical Examiner, the National Park Service, United States Forest Service, New Mexico Highlands University and other government agencies. We estimate an increase of about 25% over the previous year in services performed for UNM classroom teaching, in research and in professional service activities.

Use of the museum by public school groups reached a new high: total museum attendance rose to about 53,000 and most
school services were performed by volunteers trained by the museum staff. Costs (excluding staff salaries) were absorbed by grants from the Maxwell Museum Association and APS. The minimuseum exhibits at the Galeria (in space donated by the First National Bank) continued as an Association sponsored activity. Four major temporary exhibitions were installed and the first phase of exhibit renovation of the old gallery was completed.

II. Significant plans and recommendations for the near future.

Integration of the museum as a Department of Anthropology teaching and research resource will accelerate. Research programs focussed on our sandpainting and Southwestern archaeological collections are scheduled to begin late in 1978, all under the direction of faculty members also holding curatorial positions in the museum. Half of the exhibits scheduled for the next three years are to be based on faculty research and organized by departmental faculty and students.

Acquisition by the department of the Terrace Street laboratory should solve pressing laboratory and storage needs of the Physical Anthropology division of the museum and should also relieve stress on the Mimbres Foundation and provide some student research space. A new warehouse to be built on South Campus and shared with the National Park Service will solve collection storage problems for the foreseeable future.

Plans for the final phase of renovation of the old gallery will be completed about May, 1979, and installation will begin during that summer. That renovation should be finished as
meetings for the Museum Store Association:

- Board of Directors meeting, New York City, New York, August, 1977.


Chairman: "American Indian Art" panel, Trade Show, Museum Store Displays. Member: Policy Committee, Board of Directors, candidate for Treasurer.

Brody, J.J.--Director--Attended an ad hoc conference of anthropology museum directors in Phoenix, Arizona, in March; served on the Governor's Paleontological Task Force; curated the R.O. Anderson exhibition for ARCO Gallery, Los Angeles; juried an Indian Art exhibition for the Wheelwright Museum; served on advisory boards of Mimbres Valley Museum, Ghost Ranch Museum; editorial board Indian Arts Magazine.


Rhine, J. Stanley--Curator of Physical Anthropology--Participated in road team trips to Lincoln, Santa Fe, and Las Vegas, New Mexico, to investigate skeletal remains.
quickly as possible. Meanwhile, greater departmental use of the museum will place stress on its support staff therefore only three (rather than four) new exhibits will be planned annually for the next few years. At least one scholarly exhibition catalog will be published annually. The Museum Association can be expected to continue its financial support of the public school education program and negotiations with APS to increase its share of the load appear to be going well.

III. Appointments to staff.

Bahm, Linda--Administrative Assistant--7/25/77
Bauer, Maria--Assistant Curator, Mimbres Collection--6/22/78
LeBlanc, Steven--Assoc. Curator, Mimbres Collection--11/1/77
Nusbaum, Sally--Department Secretary--11/16/77
Pattison, Natalie--Assistant Registrar--2/1/78

IV. Separations from staff.

Black, Sally--Administrative Assistant--12/1/77
Briggs, Peter--Assistant Registrar--6/30/78
Kindell, Kathleen--Museum Secretary--11/13/78

V. Museum Publications

Rodee, Marian 1977 Southwestern Weaving, UNM Press, Albuquerque

VI. Outside professional activities of staff members.

Barsook, Beverly--Giftshop Manager--Attended the following:
attended and presented a paper at the 1st Pan-American conference of INFORM in Mexico City, Mexico.


VII. Outside-sponsored research.


B. Maxwell Museum Association: Support for the following:
   Education Program: $1200
   Galeria Mini-exhibits: $300
   Prehistoric Jewelry Exhibit: $955
   July, 1977--June, 1978


The Report of the Journal of Anthropological Research
July 1, 1977-June 30, 1978
J.N. Spuhler, Editor

The 33rd, 1977 volume of the Journal of Anthropological Research was the first volume since 1960 with more than 500 pages. Volume 33 contained 27 articles in 509 pages. Publication of the 90 additional pages was made possible by preparation of camera-ready copy for seven articles, as well as for all tables, figures, maps, and book reviews on the Journal's IBM Electronic Selectronic Composer.

 Classified by discipline, 23 articles in the volume deal with cultural-social anthropology in keeping with long-term proportions of manuscripts submitted to and published by the JAR. One paper concerns archaeology, two pertain to biological anthropology, and one is on linguistics. Geographically, five of the 27 articles are of general or world application, seven are on Africa, one about the Middle East, three concern North America (one the American Southwest), four deal with Latin America, five concern Asia (one the Far East), one treats of Europe, and one is on Oceania.

Manuscripts submitted during the year totalled 99, a number approximating the 97 received last year, and continuing the reduction from the 119 received in 1974-75, and the Journal's maximum of 136 manuscripts reviewed in 1972-73. In part the continued decrease reflects the drop in federal support of anthropological and other behavioral science research during the past several years.

Subscriptions at the close of the fiscal year totalled 2246, including 82 new orders. This year's total is 14 more than last year. Foreign subscriptions now constitute 37 percent and institutional subscriptions 58 percent of our
total distribution.

*Journal* income for the fiscal year amounted to $20,330.66; production and mailing expenses totaled $23,632.25. The income included $427 from sale of back issues, $186 from author's reprints, $250 in permission fees for five reprinted articles, and $870 in royalties for reprinted and microfilmed volumes.

Starting with volume 35, Spring issue 1979, the subscription for individuals will be raised from $7.00 to $10.00, and for institutions from $12.00 to $16.00 per volume. We hope that the additional income will meet most of the increasing costs of paper, ink, and postage.

In addition to the Co-Editors (Professors L.R. Binford, P.K. Bock, A. Ortiz, and Dean B. Spolsky) the following members of the Department of Anthropology received manuscripts for the *Journal* during the year: Drs. Richard Barrett, Caroline Bledsoe, J.J. Brody, Linda Cordell, Patricia Draper, Henry Harpending, W. James Judge, Louise Lamphere, E. Scott Rushforth, Jeremy Sabloff, James Sebring, and Lawrence Straus. The contribution in reviewing manuscripts of Professor Harry Basehart (former Editor) continues to be substantial and most helpful.

Ms. Elizabeth Gard continued to serve as copy editor for the JAR on an hourly basis. Her work greatly reduces the editorial task of seeing a volume through the printing plant.

Ms. Nancy Moran continued as Subscriptions Manager of the *Journal* and as sometime proof reader and typist of editorial correspondence. As in the past, her performance is superior and she deserves high commendation.

Ms. Helen Costello, Secretary in the Department of Anthropology, typed editorial correspondence and composed camera-ready copy on our IBM Composer. Her skill allows the *Journal* to compose articles, tables, and figures in the
more attractive type fonts used in printing the Journal text, rather than by typewriter, as in recent previous issues.

The Journal continues to achieve outside recognition through requests for permission to reprint materials from our volumes, 23 authorizations to reprint were granted during the year.

A generous grant from Byron Harvey, III to the Department of Anthropology made possible the Harvey Distinguished Visiting Lecture Series during the academic years 1976-77 and 1977-78.

To date Harvey Lectures by Professors Albert Spaulding (Santa Barbara), Vorsila Bohrer (Eastern New Mexico), Fred Eggan (Chicago), François Bordes (Bordeaux), Jean-Philippe Rigaud (Bordeaux), and Glenn Isaacs (Berkeley) have been published in the Journal.
I. General Departmental Information

A. Significant achievements during the academic year, 1977-78.

As with the previous academic year, the Biology Department continued in a stable manner to function according to organizational changes made in previous years.

No new faculty were added at the assistant professorial level. An extensive search which we conducted for an eminent senior-level person in environmental biology resulted in the hiring of John A. Wiens of Oregon State University. Professor Wiens' major interests include behavioral ecology, structure of vertebrate communities, ontogeny and adaptedness of habitat responses in vertebrates, the role of consumers in terrestrial ecosystems, simulation modelling of consumer energetics and behavior, and dynamics and trophic relationships of marine bird communities. He has an outstanding record in attracting students and grant support in these areas. For example, he established the Behavioral Ecology Laboratory at Oregon State, staffed largely by himself and his graduate students, which has
produced 66 publications in the last nine years. Moreover his efforts have attracted over $415,000 in research support during this period. We feel fortunate in having attracted Professor Wiens, and are confident that his presence will do a great deal to synergize this department's increasingly prominent graduate and undergraduate programs in ecology and evolution.

An organizational change within the department involved the resignation as chairman of Clifford S. Crawford, who will return to regular faculty duties. He will be replaced by James S. Findley. The selection of Professor Findley, a well-known evolutionary biologist and a member of the biology faculty since 1956, is an indication of the department's continued emphasis on excellence in the area of ecology and evolution.

Like other campus units, the Biology Department prepared a self-study report for North Central Accreditation. It is hoped the report will be of internal as well as external value since it contains a comprehensive summary of the department's recent activities, particularly in the past five years. It should be noted that in that period some 22 faculty members were awarded grants and contracts totalling nearly $3 million, a figure that does not include funds granted to the Malaria Project. That project, scheduled to move elsewhere a year ago, will presumably leave the department in the summer of 1978, and will most likely be reassigned to another part of the UNM campus.
Bond-issue funds made available by the college dean enabled the purchase of badly needed instructional equipment totalling over $140,000. A large proportion of these funds was spent on lower-division courses, the proper teaching of which is essential to the rest of the academic program. Bond-issue funds were also channelled toward a physical overhaul (mainly plumbing and electrical) of the Biology Annex. It is unfortunate that such major renovation could not have been undertaken during the transition period when the building was newly vacated by the College of Pharmacy. The present effort is both expensive and complex because the now relatively massive aquatic ecology program in the Annex is having to set up interim operations in a nearby building formerly occupied by the State Health Laboratories.

Academic support for non-environmental academic effort was strengthened by the appointment of an adjunct professor with a background in theoretical neurophysiology. Simultaneously and largely because of distance problems, an adjunct professor with an entomological background was dropped from the program.

The various divisions of the Museum of Southwestern Biology experienced a rapidly increasing rate of use not only by teaching and research personnel associated with the Department, but also by individuals from other sectors of the University and from other institutions. The Mammal Division of the Museum alone logged 67 visits from scientists
from 32 other institutions and loaned research materials from its holdings to 22 other universities.

B. Significant plans and recommendations for the near future.

In order to render more complete the department's undergraduate offerings, and at the same time to solidify its graduate emphasis in environmental biology, it is recommended that at least two new faculty members be added in the coming year. One person, most likely to be hired as an assistant professor, should be able to teach an undergraduate course in human anatomy and physiology for physical education majors. The Department of Health, Physical Education and Recreation in the College of Education strongly supports such an acquisition. The individual employed should be a highly recommended product of graduate training in some area of environmental biology, a broad field which can provide future faculty members competent to teach many kinds of non-environmental undergraduate courses.

With the assumption of the chairmanship by Professor Findley, his ability to carry out the responsibilities of Curator of Mammals in the Museum of Southwestern Biology is reduced, as is his role in the vertebrate biology teaching effort in the department. A second hiring, to fill this gap in a popular and centrally important part of our environmental program, should be of a mammalian ecologist or systematist with training in the management of a modern resource collection of mammalian materials.
Two new programs are to be implemented next year. One is a departmental honors curriculum, which will start off with a low but carefully regulated enrollment in existing courses and which will require a senior thesis. The other is a departmentally administered qualifying examination to be given to all incoming doctoral students during their first year of residence. These two programs have been discussed and debated for some years. We hope that they are now sufficiently refined to continue as rigorous additions to the undergraduate and graduate curricula, respectively.

Planning for space use is a never-ending activity because needs change with time. With the increasing emphasis on chemical ecology it is necessary to move the operations of Professor Rex G. Cates to Room 102 in the annex, and to use his vacated lab (Room 157) for personnel and activities in the general area of chemical ecology. The departure of the Malaria Project will free up laboratory space for two existing faculty members in cell and molecular biology: Professor John L. Trujillo will move from now cramped quarters in Room 155 to Room 243, while Professor Katherine G. Vogel will move her research operations from a vacant faculty office to Room 252. The space taken up by the Malaria Project office staff is planned for use by the senior environmental biologist and associated personnel, as well as for use by graduate teaching assistants.
Appointments to staff.

Dr. Evelyn Ewing was appointed, effective August, 1977, as Assistant Professor in the field of population genetics.

Dr. Kathryn Vogel was appointed, effective August, 1977, as Assistant Professor in the field of physiology-immunology.

Dr. John Wiens was appointed, effective August, 1978, as Professor in the field of behavioral ecology.

Dr. Robert Shlaer was appointed, effective April, 1978, as Adjunct Associate Professor in the field of neurobiology.

Dr. Elizabeth Pantle was appointed in January, 1978, for the Spring Semester, as Visiting Assistant Professor in the field of invertebrate zoology.

Dr. Jeanette Lysne was appointed for the 1978 Summer Session as Visiting Assistant Professor in the field of introductory biology.

Separations from staff.

Dr. Daniel Jennings, Adjunct Assistant Professor, effective April, 1978.

Alan Marchiondo, electron microscope technician, effective June, 1978.
II. Composite of Information Requested on Individual Biographical Supplements:

1. Advanced Study

   None

2. Sabbaticals and Leaves

   Altenbach, Scott J. Summer 1977, field work on nectar feeding bats, University of Arizona.

   Degenhardt, William G. September 1976 - May 1977, research and travel in New Mexico.

   Duszynski, Donald W. January 1977 - June 1977. Appointment as Visiting Associate Professor, Dept. of Microbiology University of Texas Medical Branch, Galveston.

   Kidd, David E. Miscellaneous travel to southwestern reservoirs for research and consulting; travel to Atlanta Ga., Syracuse New York.

   Kogoma, Tokio. July 1977 - August 1977, international meeting, Italy.


   Trujillo, John L. February 1978. Worked with Dr. Nicola--laser light scattering, Santa Barbara, Dept. of Physics

3. New scholastic honors, fellowships, etc.

   Crawford, Clifford S. Member, Editorial Board, Journal of Arid Environment.

   Degenhardt, William G. Chi Omega Faculty Appreciation Dinner.


   Ligon, J. David. Grant from The National Geographic Society.
Taylor, Fritz W. Summer Research Stipend - 1978, Arts and Sciences, University of New Mexico.

Trujillo, John L. NIH MBS Program UNM Granted $65,000/3 year period.

4. Publications.


5. Creative work and research in progress.


Baca, Oswald. National Science Foundation $50,300.00 "Coxiella burnetii: its lipopolysaccharide and attachment and entry into host cells. July 1977 to December 1979.

National Institutes of Health $32,368.00 "Interaction of Coxiella burnetii with cells of low phagocytic activity" August 1977 to August 1980.

NSF Research Equipment Grant $45,000.00 with Drs. Larry Barton, Paul Kerkof, Tokio Kogoma and John Trujillo, April 1977 - September 1978.

Barton, Larry. NSF Grant $45,000 for purchase of Ultra-Centrifuge and Spectrophotometer (with Kerkoff, Baca, Trujillo and Kogoma).

$19,771 from Water Resources Research Institute for Role of N, P, and Fe in occurrence of Algal blooms at Abiquiu and Cochiti Reservoirs, (with Gordon Johnson).

Evolution of New Mexico Humate Deposits for Restoration of Mine Spoils from Energy Research Board for $58,175 (with Potter and Gosz).


Cates, Rex. Effects of foliage quality on DFTM larval growth and mortality characteristics. USA, Forest Service, $9,000.00, 1 year. 1977.

Crawford, Clifford S. Continuing research on the biology of desert millipedes.


Duszynski, Donald W. Have 3 papers accepted (1 by J. Parasit; 2 by J. Protozool.) in press for 1978. 2 papers submitted to journals (1 by J. Parasit.; 1 by J. Protozool.). 4 papers in various stages of completion based on research finished during my 1976-77 sabbatical leave.


Gosz, James. An experimental and comparative investigation into factors controlling nutrient losses NSF $65,000, 2 years.
Gosz, James. (cont.) Nutrient changes in soil following fires, U.S.D.A., $3,000, 1 year.
Nutrient and heavy metal transport capability of sediments in the Southwest Eisenhower Consortium, $30,000.
Influence of recreational pressure on wildlife, Fish & Wildlife Service, $199,950, 3 years.

Toxic metal, salt tolerance and ionic interaction effects on the germination of alkali sacaton and fourwing saltbush, June 1975 - December 1977, $13,000.
Germination and moisture requirements of arid land plants (with Martin), April 1974 - June 1977, $20,000.

Johnson, William W. Genetics of mating speed and competition for mates in selected stocks of Drosophila melanogaster.

Kerkof, Paul P. Mechanism of Action of Thyroid-Stimulating Hormone, National Science Foundation, $37,400, September 1975 - August 1978.
National Science Foundation Research Equipment Grant $45,000 plus $21,000 cost sharing form UNM April 1977 - September 1978, (with Drs. Barton, Kogoma, Trujillo, and Baca).

Biological Availability of Nitrogen in the influent water (Rio Grande) of Cochiti and Elephant Butte Reservoir, ETA-EDA (Title 208), $39,000.

"Genetic and Biochemical Studies on Stable DNA Replication in Escherichia coli." NIH, $11,044, to August 1978.

Martin, William C. Completing Manuscript - Flora of New Mexico.
Beginning Flora of L.A. County.
Completed Floristic Assessment Mobil and Navaho properties - Crownpoint, $24,000, 1 year.
Floristic assessment of Sierra Blanca Peak, $7,821, 1 year.


Rehabilitation of mine spoil banks, U. S. Forest Service, June 1975 - December 1977, $12,000.
Competition between burro and deer, Bandelier National Monument, NSP, Santa Fe.
Heavy metals in Lake Powell ecosystem NSF-RANN Bulletin.
Vegetational succession on coal mine spoils, U. S. Forest Service.
Vegetational stabilization of uranium spoils areas, Grants, New Mexico, ERDA.
An evaluation of New Mexico humate deposits for restoration of strip-mining sites, New Mexico Energy Resources Board (shared with Gosz and Barton).
Correlation of indicator plants and archeological sites, Chaco Canyon National Monument, Submitted to the Southwestern Naturalist.


Trujillo, John L. Protein Interaction of PFK - FDPase from Pig Liver.


6. Activities in learned and professional societies.


Bourne, Earl W. American Association Cell Biology


"Chiropteran abundance in two worlds: are bats rare in Africa?" Paper read at North American Bat Research Symposium Ottawa, Canada, October 1977.

Board of Directors, American Society of Mammalogists.

Session Chairman AIBS National Meeting, East Lansing, Michigan.
Paper read AAAAS National Meeting, Denver, Colo.


Kogoma, Tokio. "Cell Division and the DNA Replicated in the Absence of Protein Synthesis in an Sdr Mutant of E. coli": (co-authors: Gantz and Alizadeh), presented at the annual meeting of American Society for Microbiology, May 1977. "Stabilized Initiation Activity of DNA Replication in an Sdr" Mutant of E. coli, (co-authors: Connaughton and Alizadeh), presented at the NATO-ASI meeting on DNA synthesis, July 1977. "E. coli Mutants Capable of DNA Replication in the Absence of RNA Synthesis" (co-author: Torrey), and "Induced Stable DNA Replication as a Possible SOS Function" (co-author: Connaughton) presented at the ASM New Mexico branch meeting, October 1977.

Martin, William C. Nominations Committee, A.A.A.S., Southwestern Division.


Potter, Loren D. Vice President for Research for the Eisenhower Consortium for Western Environmental Forestry Research, charge of research allocations and several meetings.


Trujillo, John L. Paper to be presented at Atlanta, Georgia, June 1, 1978, American Society of Biological Chemists Abstract


7. Other professional activities.

Altenbach, Scott J. Biological Consultant, Cerебration Inc., Albuquerque, New Mexico.

Bourne, Earl W. Consultation Serono, Inc., Radiopharmacy Department, College of Pharmacy, University of New Mexico.

Bruner, Sandra. Consultant in Biological Services for Falcon Industries a division at Whittaker.


Duszynski, Donald W. Presented guest seminar, Department of Microbiology, University of Texas, Medical Branch, Galveston, May 1977; Am consulting on parasites of whales for an international study on the biology of certain whale species.


Martin, Willaim C. Off-campus talks to various groups; Consultant (non-paid) in poisonous plant identification for Poison Control Center, etc.


Thornhill, Randy. Off-campus talks: Department of Biology, New Mexico State University; Department of Biology, Queens University, Kingston, Ontario; Department of Zoology, University of Ontario; Department of Zoology, University of Iowa; Museum Zoology, University of Michigan, Mt. Lake Biology Station, University of Virginia.


Baca, Oswald G. Search Committee for Physiologist/Immunology position - Biology. Committee-Biology-Graduate Policy Committee. Member of Health Sciences Advisory Committee. Member of Student Selection Committee of the minorities Biomedical Support Program.

Barton, Larry. Advisor for Presidential Scholarship holders-University.

Bourne, Earl W. Selection Committee Director of Dental Hygiene Program. Premedical, predental, preveteriary medicine Advisor. Advisor, Premedical Club; Human Subjects Committee.

Cates Rex. Member of University Research Allocations Committee; Departmental Graduate Student Policies Committee; Greenhouse Committee; and Space Committee. Faculty advisor to: Jody Gray, M.S. student; Tim McMurray, M.S. student; Harvey Alexander, Ph.D. student.

Crawford, Clifford S. Member, Arts and Sciences Committee on Interdisciplinary Studies.
Degenhardt, William G. Graduate advisor (5 students), Curator of Herpetology Division of the Museum of Southwestern Biology, Dept. Teach Evaluation Committee.

Duszynski, Donald W. Member, Dept. Graduate Policy Committee; Special assignments by Dept. Chairman: Designed departmental flier advertising our graduate program; updated departmental faculty biographical sketches.

Findley, James S. Chairman, departmental graduate Selection Committee. Chairman, 2 masters and 4 doctoral committees. Curator of Mammals, Museum of Southwestern Biology.

Gosz, James. Chairman Search Committee, Biology Department.

Johnson, Gordon V. University Committees: Radiation Control Committee, Radiation Protection Subcommittee. Departmental Committees: faculty teaching evaluation, graduate assistant teaching evaluation.

Johnson, William W. Chairman of the University Admissions and Registration Committee. Transfer Student Advisor (Biology). Liaison work with the General Library.


Kidd, David E. Toxicology Committee, UNM. Freshman Advisor, Biology Department. Major Advisor for four graduate students.

Kogoma, Tokio. Space and long-range planning committee (Biology Department).
Martin, William C. Sandia Colloquium Committee; Preforestry Advisor; Curator of the Herbarium and Museum of Botany.

Molles, Manuel C. Curator of the University of New Mexico Fish Collection. Member: Student Standards Committee.

Riedesel, Marvin L. Member: Seminar Committee, 1976-77; Long-range Planning and Space, 1976-77, Department of Biology. Member: Dean Wollman's Promotion Advisory Committee 1976-78; Health Science Committee 1977-78, College of Arts & Sciences. University Committee: Member, Humane Care of Laboratory Animals 1976-77; Member, Research Policy 1976-78; Chairman, Research Policy Subcommittee "Interdisciplinary Research & Research Foundations" 1977-78; Member, "Interdisciplinary Research Subcommittee 1977-78; Attended, University-Connected Research Foundations Workshop at Asilomar Conference Grounds, Pacific Grove, California under auspices of Frederick Burk Foundation for Education, San Francisco State University, March 16-18, 1977. Ph.D. Committee on Studies: In progress: Felicetti, Sharon Walker, co-chairman; Fisher, William F., chairman; Steffen, Joseph M., chairman; Carlberg, Karen A., chairman; Silbaugh, Steve, co-chairman. MS Committee, Plan I Completed: Velasquez, David J., co-chairman; in progress: Clark, Barbara Blake, chairman; Harris, Dorthy L., chairman; Runkle, Gen, co-chairman; Dudley, Robert E., member; Michael, Joseph A., chairman; Hicks, James W., chairman.

Taylor, Fritz W. Organizing departmental honors program for Biology Department.

Thornhill, Randy. Routine departmental committee work.

Toolson, Eric C. Graduate admissions and support committee—Department of Biology.

Trujillo, John L. Graduate Selection Committee, Biology Department; UNM Research Policy Committee; MBS NIH Advisory Committee.

Altenbach, Scott J. Lecture series to Day Camp for ages 6-12, Englewood, Colorado, Summer 1977. Lectures to Grades 1-2, Monte Vista Elementary School, Albuquerque, New Mexico.

Barton, Larry. An elected member of Board of Education at Local church. Umpire at Little League Baseball.

Cates, Rex. Member of Bishopric in LDS Church; Cub Scout and Boy Scout Pack & Troop Committees, Chairman; Oversee Youth Program in Albuquerque 1st Ward, LDS Church.

Crawford, Clifford S. Member, Board of Directors, The New Mexico Natural History Institute.

Duszynski, Donald W. June-September, coached a men's city-league softball team finished 17-6; October-November, coached a men's city league flag football team, finished season 10-3.

Johnson, Gordon V. Judge State Science Fair; 4-H Club project leader.

Martin, William C. Teaching in Community College; Active in New Mexico Wildflower Society.

10. Personal Information.

I. General Departmental Information

A. Significant Achievements During the Academic Year 1977-78.

During the year 1977-78 sixteen (eleven males and five females) undergraduate majors received the B. S. Degree and eight (seven males and one female) students received the B. A. Degree in Chemistry. A total of fifty-three students (thirty-five males and eighteen females) received a minor in Chemistry. At the graduate level, there were ten students, (seven males and three females) who received the M. S. in Chemistry and nine students (seven males and two females) who received the Ph.D. The following tables list the names of the students who received either a major in Chemistry or a graduate degree in Chemistry. It should be pointed out that of the B. S. majors, six of these will go on to graduate school to study chemistry, two at the University of Wisconsin at Madison, one at Cal Tech, one at Rice University and two in our own Department at the University of New Mexico.

Students Receiving a B. S. Degree in Chemistry in 1977-78

BARBER, Matthew E. HEUNG, Wing H.G. NUSSE, Betty J. SHAY, John T.
BARNHART, Steven E. HILLIS, Gregory D. PAFFETT, Mart T. VAUGHN, Edward A.
BOWEN, Scott M. KUBAT, Kimberly A. PRITT, Jeffrey W. VOLLENDORF, Nicholas W.
CORTNER, Jay C. MIZUSAWA, Anita E. RICKER, Karl S. ZURAWSKI, Dale E.

Students Receiving a B. A. Degree in Chemistry in 1977-78

BARNETT, James L. GIAQUINTO, David R. MILLER, Tim THOMPSON, William Jr.
BUCHANAN, Mark A. MARTINEZ, Rita Alfred ROEDER, Carol YEEFONG, Juan M.

Students Completing the Master's Degree in Chemistry in 1977-78

ANAOKAR, Sunil G. ENNIS, Malcom E. Jr. JONES, Martin B. SCHONBERG, Peter R.
BODINE, Richard S. FRITZ, Georgia T. NDINTER, Emilia A.
DYE, Vicky D. HYLARIDES, Mark D. RUMINSKI, Ronald R.
Several years ago the Department of Chemistry drastically changed its requirements for the B. A. Degree and this change has had a major affect on the number of students receiving the B. A. Degree in Chemistry during the year. We used to have as many as 30 students receive the B. A. in Chemistry and this year only 8 students completed this degree. We believe that the B. A. Degree in our Department has been greatly strengthened with this change and that students receiving the B. A. Degree in Chemistry under our current system have a much better background in Chemistry than those of several years ago. Students in the B. A. program take the same courses as those in the B. S. program with the elimination of 6 credits of laboratory and 7 credits of chemistry electives. Students receiving the B. A. Degree in our Department at the present time, could qualify for graduate work in chemistry, whereas those who received our B. A. Degree five years ago could not.

The Department's attempt to obtain funds from the National Science Foundation for the necessary equipment to set up a high quality X-ray crystallography laboratory was successful. Dr. Thomas C. Farrar of the National Science Foundation contacted me on June 8 to notify me that he was recommending a grant of $48,300 be given to our Department to assist us in purchasing an automated diffractometer. This is to be matched by $48,300 which will be provided by the Administration of the University. In order to obtain the instrument we feel will best fit our needs, it was necessary to ask the University to provide an additional approximately $30,000 toward the purchase of this instrument. This request is currently being discussed and we have high hopes that the University will provide these additional funds for us. Our plans for the next year
are to write a grant proposal to the National Science Foundation for funds to assist in the purchase of a new electron spin resonance spectrometer.

The Department received a URP Grant from the National Science Foundation amounting to $14,570. to be used during the summer of 1978 for supporting the research activities of ten undergraduate students who will perform research with various faculty members.

The Department has also purchased a new Varian FT80A NMR spectrometer with funds provided by the University ($85,000). The instrument will provide the Department with wide band NMR capability. In other words, this instrument will allow us to observe the NMR spectra of a large number of different nuclei. With the addition of this instrument, the Department's NMR capability will be excellent. The instrument was to be delivered on June 15, but has not yet arrived. We hope to have it in full operation before the end of the summer.

The Department's collaboration with the Los Alamos Scientific Laboratory is continuing in that the intra-institutional loans of instrumentation is still going on. The Chemistry Department still has on loan the Cary Model 81 Raman spectrometer from the CNC-4 Group at Los Alamos. In addition, the Department has on loan several items of equipment from Los Alamos which are being used in the dye laser project being conducted by Professors Coleman and Daub.

During the year 1977-78, the Department received a generous allotment from the Administration in the form of bond issue money to update the Chemistry 331L, 332L and 454L laboratories. An initial Phase I allotment of $64,480 plus an additional $22,150 was used to purchase equipment for these laboratories. Professors Jones, Walters and Niemczyk were in charge of these purchases and have indeed obtained the equipment necessary to update and strengthen these laboratories. The Department thanks the Dean for his role in obtaining these funds for us. Indeed the $85,000 obtained for the FT80A NMR would not have been forthcoming had not the College Dean provided $25,000 of that money from the A&S Contingency Account. We appreciate all of the Dean's efforts on our behalf and I personally
feel that his role in the upgrading of our Department to one of the better in the Southwest area has been considerable.

Enrollments in Chemistry still continue to hold and the bond issue money which has been provided has relieved the stress on obtaining needed equipment for the teaching laboratories. There is a further need for equipment for the teaching laboratories and this situation is expected to continue. The Department's future allotments from the bond issue funds should help to solve these needs.

Our biochemistry program jointly sponsored with the Department of Biochemistry in the School of Medicine, is still holding its own in that some new students in our graduate program are interested in this area. We hope that this relationship will continue in the future.

During the past year, the Department continued to use student help to provide a combined wood and metal shop technician. The need for a machinist and machine shop facility for Chemistry still exists. Last year the Dean was asked to consider hiring such a person who could serve Chemistry, Biology and Geology in such a capacity on a full time basis. Since it has not been possible for the Dean to move in this direction, I am suggesting that the Department have any machine shop work done by local qualified machine shops. Such work to be paid out of our Supplies and Expense Account. We will keep track of the cost of such services and at the end of the year perhaps a better estimate of our machine shop needs can be made.

As in the past, members of the Department were evaluated by student opinion in the Fall Semester. These evaluations were tabulated and sent to the office of the Dean of Arts and Sciences. In general, our faculty appears to be doing a good job at both the graduate and undergraduate levels.

During the school year 1977-78, the Department resumed offering trailer courses in Chemistry 121-122, 301-303L and 302-304L. These courses had very
good enrollments and we plan to continue the offering of trailer courses in the future. Associated with this trailer course policy, we have gotten back to offering our summer courses in 121, 122, 301, 302 and 303 and 304 full term basis rather than giving these courses during a four-week period in the summer session.

During the school year 1977-78, the Chemistry Department's Seminar Program was financed by donations from Alumni and other interested parties as well as the Supply and Expense Budget of the Department. Donations to the Seminar Fund totaled approximately $460. This program was also funded through the auspices of the University of New Mexico Colloquium Committee in the amount of $750. The amount supplied from the Supplies and Expense Budget of the Department for the 1977-78 year was $2500. An estimate of the total cost of this program for 1977-78 was somewhere between $3250 and $3500. The Seminar speakers and titles of their talks for the 1977-78 year are shown in Table I.

Table I

Seminar Speakers 1977-78

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Dale Alexander</td>
<td>Stereochemistry of Complexes of Polydentate Ligands</td>
<td>New Mexico State University</td>
</tr>
<tr>
<td>Victor Bloomfield</td>
<td>Dynamic Light Scattering in Biophysical Chemistry</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Pill-Soon Song</td>
<td>Molecular Topography of Solar Energy Harvesting Pigments in Marine Algae</td>
<td>Texas Tech University</td>
</tr>
<tr>
<td>Frederick H. Horne</td>
<td>Nonequilibrium Thermodynamics of Membrane Transport</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>Ignacio Tinoco</td>
<td>Fluorescence Detected Circular Dichroism</td>
<td>University of California, Berkeley</td>
</tr>
<tr>
<td>Gary L. Blackmer</td>
<td>Crown Ether Assisted Ligand Exchange Reactions on Transition Metal Complexes</td>
<td>Texas Tech University</td>
</tr>
<tr>
<td>John H. Enemark</td>
<td>The Bioinorganic Chemistry of Molybdenum</td>
<td>University of Arizona</td>
</tr>
</tbody>
</table>
r. A. Dean Sherry
November 4, 1977
The Role of Metals in the Plant Lectin, Cocanavalin A
University of Texas, Dallas

r. Kelly R. O'Keefe
November 11, 1977
Applications of Multielement Atomic Absorption Spectrometry
Colorado State University

r. Richard M. Blazer
November 18, 1977
Carbon-13 Nuclear Magnetic Resonance Studies of the Kiliani Synthesis
Los Alamos Scientific Laboratory

r. Robert E. Sievers
December 2, 1977
Chromatographic Analysis of Environmental Pollutants
University of Colorado

r. Roald Hoffmann
December 9, 1977
The Bonding Capabilities of Transition Metal Fragments
Cornell University

r. John W. Gilje
January 9, 1978
Stereodynamics of Helically Chiral tris-(amino)boranes
University of Hawaii-Manoa

r. Michael Butler
January 20, 1978
Photoelectrochemistry for Solar Energy Conversion
Sandia Laboratories

r. Charles N. Reilley
January 27, 1978
Microcomputers
University of North Carolina

r. Paul D. Bartlett
February 3, 1978
Some 2 + 3 Cycloadditions and Cycloreversions Involving Carbonyl Ylides
Texas Christian University

r. Devon W. Meek
February 10, 1978
Reactivity Patterns, Structures, and Catalysis of Polyphosphine Complexes of Platinum Metals
Ohio State University

r. Mark S. Wrighton
February 17, 1978
Semiconductor Based Photoelectrochemistry
Massachusetts Institute of Technology

r. Arthur W. Adamson
March 3, 1978
Excited States of Coordination Compounds
University of Southern California

r. Jerome A. Berson
March 10, 1978
Spin States and Reactions of Trimethylmethanes
Yale University

r. Michael Burke
March 24, 1978
Chemically Modified Chromatographic Absorbents
University of Arizona

r. James D. Navratil
March 31, 1978
Chemical Research at Rocky Flats
Rockwell International (Rocky Flats)

r. John Zahrt
April 3, 1978
Hindered Rotation in the Solid State
University of Northern Arizona

r. Gareth R. Eaton
April 7, 1978
Metal-Nitroxyl Interactions
University of Denver
### Significant Plans and Recommendations for the Near Future

Plans to renovate the older portion of Clark Hall have been developed and a proposal was sent to the Dean in January, 1977. (See Appendix A.) It is my understanding that this request is now in the hands of the architect and has some kind of priority rating in connection with other requests.

Rooms 109 and 109A should be renovated so as to provide better facilities for our freshman undergraduate honors section of general chemistry (Chemistry 131 and 132). The laboratory benches in these rooms are forty to fifty years old and replacement of them with other renovations including new fume hoods and paint has been recommended. We are earnest about this endeavor and feel that we must find these kinds of funds in order to improve the laboratory situation for our B. S. majors.

When Clark Hall was built, its undergraduate laboratories were furnished with the old laboratory benches from the then existing chemistry building. This was understandable since the University did not feel that it had the funds to furnish the new building the way it should have been. There were promises that eventually new furniture would be obtained, but this has never materialized.

Several years ago we did manage to obtain funds to add laboratory benches to

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Michael Kasha</td>
<td>Singlet Oxygen and Photocarcinogenicity</td>
<td>Florida State University</td>
</tr>
<tr>
<td>James Durig</td>
<td>The Study of Anharmonic Vibrations</td>
<td>University of South Carolina</td>
</tr>
<tr>
<td>Wesley G. Bentrude</td>
<td>Conformational Studies of Rings, Containing Phosphorus</td>
<td>University of Utah</td>
</tr>
<tr>
<td>Charles H. DePuy</td>
<td>Gas Phase Reactions of Organic Anions</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>James R. Bolton</td>
<td>Solar Fuels</td>
<td>University of Western Ontario</td>
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</table>
Chemistry 207 (the freshman laboratory), we also received funds three years ago to refurbish the laboratory which is now used by Professor Paine as a research laboratory. The renovation of Room 109 and 109A is another project that is long over due and every effort should be made to allow us to make these renovations during the summer of 1979.

In addition to the above we have recommended that Rooms 104, 106, 108 and 118 be modified to provide expanded facilities for the sophomore course, Chemistry 253L, Quantitative Analysis. The modification of Room 118 has already been completed. This room is now being used as a storage facility for unknown samples and as a crisis center. A teaching assistant is on duty a good share of the time to provide assistance to Chemistry 253L students needing help with the course material. As a temporary measure, the basement laboratory was renovated four years ago to provide added facilities for Chemistry 253L. The modification of Rooms 104, 106 and 108 would convert the entire east side of the old Clark Hall to the teaching of elementary Quantitative Analysis and would free the basement laboratory as a research area for added faculty.

Another room which must be renovated is Room 211 in Clark Hall, Chemistry's plan is to convert this room into a general inorganic chemistry research laboratory. This room is presently equipped with furniture which is well over 40 years old. When Clark Hall was built in 1953, some of the research laboratories were furnished with old laboratory benches from Old Chemistry. Although most of the research laboratories were furnished with new bench facilities, Room 211 was one of the rooms that was furnished with very old laboratory furniture. Our plans require the old benches in the room be removed and replaced with new furniture. See Appendix A for details.
The recommendations made above are intended to save the University money in the long run. The Chemistry Building, at the present time is almost filled to capacity and within a few years a new wing should be added. This wing should contain facilities for a general chemistry center, additional laboratory facilities for freshman chemistry, organic chemistry and additional general laboratory space to be used for research as outlined in Appendix A.

In the meantime, to stem the tide, the renovation of Rooms 109, 109A, 104 106, 108 and 211 should be carried out. A decision on this request should be made as soon as possible so that the necessary laboratory furniture can be ordered in time for installation during the summer of 1979.

In addition to the above recommendations, the University is urged to replace the existing furniture in Rooms 112 and 116 (the current quantitative analysis laboratories) as specified in Appendix A.

There is also a need for additional help for Chemistry, Biology, and Geology in the area of an electronic technician. Mr. Earle George is now serving each of these three departments on a one-third time basis and this is not enough. We should have an additional full time electronic technician to make Chemistry's instrumentation servicing even adequate. In Chemistry we have been relying on work study personnel to help fill this need; however, only two such persons that we have hired have really been a help to Mr. George. The others are people who really had not had enough training in this area to be very useful. We must, if at all possible, acquire the services of an additional permanent, full time electronics technician. This is another post that should be filled by July 1979. We have asked for this kind of additional help for several years now and I think every effort should be made to find this additional technician.
Some faculty have asked that the new technician be the type of person who can design and build equipment. This kind of person would complement Mr. George's services since Mr. George does only repair work and is not well suited for design.

As pointed out earlier, the Department has need for a machine shop technician. During the past four years, I have informed the Dean that the University maintains an excellent shop in the College of Engineering as well as Physics, having all of the necessary machinery for doing high quality machine shop work. As I mentioned before in this report, funds should be provided to the Departments of Chemistry, Biology, and Geology jointly to hire a highly qualified machinist or shop technician who would be allowed to work in the Physics Machine Shop or some other suitable currently existing machine shop on Campus. I strongly recommend that this position be funded starting July 1, 1979. As reported earlier here, we have been making use of seniors in the Department of Industrial Education for a shop man, but a permanent position of this kind should be funded.

In the coming year, we will submit a proposal to the National Science Foundation for funds to assist us in purchasing a new electron spin resonance spectrometer. This will require matching funds from the University just as it has in our past requests from the National Science Foundation. The proposal will be prepared by William F. Coleman with other faculty members in the Department participating in the preparation of this proposal. Such an instrument may cost as much as $100,000 with the National Science Foundation providing $50,000 and the University matching that amount.

In my reports of the last several years I have stated that the City Fire Marshall has been critical of safety conditions in our building. Recommendations which were made were that our refrigerators used to store chemicals should be of the explosion proof type and a suitable fire alarm and emergency lighting
system would be installed in the old wing of the building. As of this writing, a suitable emergency lighting system has been installed by the Physical Plant; however, none of the other deficiencies have been rectified.

As reported in the past several years, the Chemistry Department also has a need for a large number of teaching assistants. Through the efforts of the Dean of the A&S College, we have managed to obtain the necessary funds for needed personnel in this area; however, we would prefer that all of these funds were tied in with teaching assistantships rather than some of them being for special assistantships. I am asking that the Dean do all he can to convince the Provost that the assistantships in Chemistry to be used for teaching, be of the teaching assistantship type. We also have need for three graduate assistants which could be used to support the upkeep and running of our sophisticated instrumentation. A graduate student is needed to maintain and run our XL100 NMR instrument and if we were appointed two more G.A.'s, they should be used to run and maintain other sophisticated instrumentation such as the X-ray diffractometer, the mass spectrometer and the FT80 NMR. Departments at other institutions generally have full time technicians in charge of such sophisticated instruments. All we are asking is that the University provide funds to support graduate assistants who could take the place of such full time technicians. I am asking that for the school year 1979-80, our teaching assistantships be increased to 32 and that we be provided with three graduate assistantships to give us the total of assistantships numbering 35. The graduate assistantships provided for us will be used in our research instrumentation program.

C. Mrs. Gloria Sandoval joined our staff as a secretary in August 1977. Her position was funded by CETA. Miss Lisa Garcia joined our staff as secretary in June 1978. This position was also funded by CETA.

D. Mrs. Gloria Sandoval resigned in May of 1978 for personal reasons, being replaced by Miss Garcia.
1. **Advanced Study:**

None.

2. **Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.:**

   (a) FRITZ S. ALLEN: Discussed research with Prof. V.A. Bloomfield, University of Minnesota, Minneapolis, MN.

   (b) CHARLES F. CAMPANA: Summer appointment, Sandia Laboratores, Associated Western Universities.

   (c) DONALD R. MCLAUGHLIN: Visiting staff member, Los Alamos Scientific Laboratory, June-August 1977.

   (d) EDWARD A. WALTERS: Travel to Los Alamos Scientific Laboratory as visiting staff member; travel to the University of Texas, Austin; travel to Colorado State University, Fort Collins; travel to Purdue University, Indiana.

3. **New scholastic honors, fellowships:**

   (a) ROY D. CATON, JR: Nominated for Outstanding Teacher of the Year Award in April, 1977.

   (b) RICHARD W. HOLDER: Awarded Fulbright Lectureship to teach physical organic chemistry in Columbia, Summer 1978; Awarded $30,000.00 grant from the Petroleum Research Fund for 1978-80.

   (c) ROBERT T. PAINE: Association of Western Universities Fellowship.

   (d) DAVID L. VANDER JAGT: Research Career Development Award, Year 4, from NCI.

4. **Publications:**

   (a) FRITZ S. ALLEN


   (2) "An Example of the Utility of Linear Programming as a Numerical Technique," Computers in Chemistry, 1977, vol. 0, pp 0000

   (b) CHARLES F. CAMPANA

4. Publications: (Cont'd)

(b) CHARLES F. CAMPANA (Cont'd)

(2) "Preparation and Structural Characterization of \([Fe_3(h^5C_5H_5)_3(CO)_5As_4O_5)]^{+BF_4^-}: An Unusual Transition Metal Derivative of As_4O_6^-", Journal of Organometallic Chemistry, 1977, vol. 127, pp 223-236.
Coauthors: J. Douglas Sinclair and Lawrence F. Dahl.

(c) WILLIAM F. COLEMAN


(4) Review of General and Organic Chemistry -- Professional Educators of New Mexico, 67 pgs.

(d) GUIDO H. DAUB


(e) RICHARD W. HOLDER


(e) ULRICH HOLLSTEIN


(2) With W.M. Litchman and E.P. Papadopoulos, "^{13}C NMR Chemical Shifts in some substituted 1,2,4-Triazol-3-ones, Org. Magn. Res., in press.

(f) THOMAS E. JONES

(1) "Effects of Ligan Cyclization on the Rates of First Bond Formation," submitted to Journal of the American Chemical Society.


(g) MILTON KAHN


(h) WILLIAM M. LITCHMAN

"Heteronuclear Double Resonance & Theoretical Description of Intensity Effects in A(X₂) and A(X₃) Systems," J. Mag. Res. 25, 315 (1977)

(i) DONALD R. MCLAUGHLIN


(j) CARY J. MORROW

4. Publications: (Cont'd)

(k) THOMAS M. NIEMCZYK


(2) "The Rate of Reaction of Si3P2 Atoms with N2O and O2", Laser Digest AFML-TR-77-118, May 1977, Coauthors: P.M. Swarengen and S.J. Davis.

(l) ROBERT T. PAINE, JR


(m) E. PAUL PAPADOPOULOS


(n) SU-MOON PARK


(o) ROBERT E. TAPSCOTT


4. Publications: (Cont'd)

(o) ROBERT E. TAPSCOTT (Cont'd)

(3) "Enumeration of Permutational Isomers: The Porphyrins,"
Journal of Chemical Education, in press (accepted).

(4) "Enumeration of Isomers for Molecules Containing Multiple
Elements of Stereoisomerism," submitted to Journal of the American
Chemical Society.

(p) DAVID L. VANDER JAGT

(1) "Purification of Glutathione-S-Transferases," Anal. Biochem.,
82, 334 (1977).

(2) "Purification and Characterization of 2-Oxaldehyde Dehydr,"

(3) "Comparative Kinetics of Mg$^{2+}$, Mn$^{2+}$, Co$^{2+}$, and Ni$^{2+}$-Activated


(q) EDWARD A. WALTERS

(1) "The Ionization of 4-Nitrophenylacetonitrile in Water-Dimethyl

(2) "In Situ Gasification of New Mexico's Deep Seam Coal Deposits
Via Non-mining Techniques," Technical Report NE-37(77) BEF-363-1,

(3) Review of Odum, Howard T. and Odu, Elizabeth, "Energy Basis for

5. Other research projects or creative work in progress or completed:

(a) FRITZ S. ALLEN

(1) "An Example of the Utility of Linear Programming as a Numerical
Technique II" submitted, Computers in Chemistry.

(2) "Physical Studies of Hg(II) and Ag(I)-DNA Complexes I,
submitted Biopolymers.

(3) "Physical Studies of Hg(II) and Ag(I)-DNA Complexes II,
submitted Biopolymers.

(4) "Comparisons Between Oriented Film and Solution Tertiary

(5) A Solution to the Rotational Diffusion Equation to Describe
Molecular Orientation Due to a Time Dependent Torque, in press,
5. Other research projects or creative work in progress or completed: (Cont'd)

(b) CHARLES F. CAMPANA

(1) Synthesis and Structure of Silicon- and Germanium-Bridged Metal Cluster Complexes, Research Allocations Committee, $1500, November 1, 1976 to June 30, 1977.

(2) Preparation and Characterization of Transition Metal Cluster Complexes, Sandia Corporation RFQ07-7914, $13,000, October 1, 1977 to September 30, 1978.

(3) X-Ray Crystallographic Studies of Vanadyl Tartrate Complexes, joint with B. Morosin (Sandia Laboratories and R.E. Tapscott (UNM)).

(4) X-Ray Crystallographic Studies of Optically Active Cobalt Complexes, joint with B. Morosin (Sandia Laboratories) and R.E. Tapscott (UNM).

(5) Structural Studies of Transition Metal Phosphine Complexes, joint with R.T. Paine (UNM).

(6) Preparation of Transition Metal Thiophosphoryl Complexes, unsupported.

(7) Nonparameterized Molecular Orbital Calculations on Transition Metal Cluster Complexes, unsupported.

(c) ROY D. CATON, JR


(d) WILLIAM F. COLEMAN

(1) "Photochemical and Photophysical Properties of Matrix Isolated and Thin Film Uranium Hexafluoride and Single Crystal Uranyl Complexes," final report on grant number N66-17232-1 to LASL AP2, 36 pages.

(2) UV Laser Dyes -- LASL AP-2 Division, $41,200, ended 9-1-77.

(3) Laser Dye Evaluation -- Sandia Corp., $24,600, 12/76-12/77.


(5) UO$_2$$^{+2}$ Spectroscopy -- Sandia Corporation, continued load of $35,000 spectrophotometer.

(6) Gas Phase and Surface Auger Spectroscopy of Simple Ligands -- in conjunction with Group 5114, 5151 Sandia Corp., they are providing facilities and equipment for myself and one graduate student.

(7) Photophysical Properties of e-Beam-excited Rhodamine Dyes -- in conjunction with AP-2 Division LASL.

(d) WILLIAM F. COLEMAN (Cont'd)

(9) Gas Phase Luminescence of Metal Chelates -- unsupported, proposal in preparation.

(e) GUIDO H. DAUB

(1) Synthese of $^{13}$C Labeled Benzo[a]pyrenes and related compounds. Grant No. RO 1 CA 16871-2-01 and 02. Amount of Grant $87,381.00

(2) Grant from Sandia Corporation # 06-5918 in the amount of $24,679.00 supporting the synthesis and study of organic compounds which may be useful as laser dyes.

(3) Grant from USERDA # EY-76-S-040381 in the amount of $6029.00 supporting research on the synthesis and testing of organic compounds which may be useful as laser dyes.

(4) Synthesis of $^{13}$C and $^{15}$N Labeled compounds (work performed at Los Alamos Scientific Laboratory as visiting staff member, part-time).

(f) ULRICH HOLLSTEIN

(1) First-neighbor Specificites of Steffimycin B.

(2) Synthesis of a phenazine analog of actinomycin and binding to DNA (NIH Grant to 7/31/77, $31,612.00).

(3) Synthesis and $^{13}$C NMR of 5-substituted quinozalines.

(4) Biosynthesis of iodine.

(g) THOMAS E. JONES

(1) Analytical Applications of Macrocyclic Polythiaether Ligands, funded by Sandia Laboratory, $13,000.00, Oct 1, 1977 - Sept 30, 1978.

(2) Oxidation-Reduction Reactions of Manganese (III) Chelates.

(3) Steric Effects in Complexation Reactions.

(4) Copper-Sulfate Complexes as Models for "Blue" Copper Proteins.

(h) MILTON KAHN

(1) Studies of the chemical behavior of carrier-free germanium-68 are in progress. This work is supported by a Los Alamos Contract, Order No. NP7-96287-1, June 1977 - May 31, 1978 ($14,967).

(i) WILLIAM M. LITCHMAN

(1) Double Resonance in AX$_3$ Spin Systems.

(2) Viscosity of Solutions of Gases under High Pressure.

(3) Isotope Effects in NMR.
5. Other research projects or creative work in progress or completed: (Cont'd)

(j) MIRIAM P. MALM

(1) Have signed a contract with D. van Nostrand Publishing Co. to publish material written for Chemistry 212.

(2) Have signed a contract with the Continuing Education Dept. of UNM to produce a correspondence course for Chemistry 212.

(k) DONALD R. MC LAUGHLIN

(1) Stability of HeH$_2^+$ molecule research completed.

(2) Manuscript submitted on Ground and Excited State Ab Initio Electronic Potential-Energy Surfaces for the HeH$_2^+$ System by D.R. McLaughlin and D.R. Thompson.

(3) NSF teaching enhancement grant accepted (with College of Education).

(4) NSF proposal "Theoretical Studies of the HeH$_2^+$ System" submitted.

(l) CARY J. MORROW

(1) Continued research on Gas Chromatographic Resolution of Enantiomers, NIH, $30,174.00, 2nd year of three year grant.

(2) Continued research toward synthesis of drugs to inhibit biosynthesis of cholesterol. One patent applied for. (Supported by grant to Dr. T. Scallen from NIH).

(3) Continued research on Synthesis of Organophosphorus Compounds having a Potential Physiological Activity, NIH, (MBS Program) $13,702.00 first year of 3-year renewal.

(4) Continued efforts to synthesize phosphorus-containing analogs of molecules related to the morphine alkaloids.

(m) THOMAS M. NIEMCZYK


(3) "Evaluation of the Hollow Cathode Discharge as a Chromatographic Detector," grant from Minority Biomedical Support Program, NIH continuing.

(n) ROBERT T. PAINE, JR

(1) Five manuscripts in review process of which two have been accepted to date.

(2) Active Grants:

1. Sandia Corporation, $59,000, 10/77-9/79, "Chemistry Related to the WIPP Site".
5. Other research projects or creative work in progress or completed: (Cont'd)

(n) ROBERT T. PAINE, JR (Cont'd)

(2) Active Grants: (Cont'd)

2. Los Alamos Scientific Lab, $10,100, 12/77-11/78, "Properties of Uranium Borohydride".


(o) E. PAUL PAPADOPOULOS

(1) Reactions of Azoles with Isocyanates at Elevated Temperature.

(2) Reactions of N-acylthioacmides with Dinucleophilic Reagents.

(3) Thermal Cyclization of N'-Ethoxycarbonyl-N-Arylbenzamidines.

(4) Ethyloxalyl Isothiocyanate: A New Isothiocyanate.

(p) SU-MOON PARK

(1) RAC: "Electrochemical Studies on Carcinogenic Compounds," in progress.

(2) RAC: "Electrochemical Studies of β-Carotene, Retinal, and Retinol," completed.


(4) "Electrochemical and ECL Studies of (2+2) cycloaddition," completed.

(5) "Electrochemical Studies of Biologically Important Compounds," in progress.

(q) ROBERT E. TAPSCOTT

(1) NIH, $38,995 direct costs, "Chelate Isomerism with Meso and Prochiral Ligands," April 1, 1976 - March 31, 1977.


(r) DAVID L. VANDER JAGT

(1) HEW 5-R04-CA70939-04, "Role of Glyoxalase and Glutathione in Carcinogenesis", 6-1-77 - 5-31-78, $32,400.

(2) HEW-5-R01CA17298-03, "Glutathione Metabolism in Normal & Abnormal Tissue", 5-1-77 - 4-30-78, $16,630.

(3) NCI r-R01-CA11850-06, "Comparative Enzymology of the Glyoxalase System", 6-1-76 - 5-31-77, $20,198.

(4) NIH CA16871-2, "13C-enriched Carcinogens", 6-30-76 - 6-30-77, $55,696.
5. Other research projects or creative work in progress or completed: (Cont'd)

(s) EDWARD A. WALTERS

(1) Photoionization mass spectrometry in molecular beams, sponsored by AWU and LASL.

(2) Green River Oil Shale Characterization, sponsored by LASL.


(4) Multiple photon dissociation in molecular beams, sponsored by LASL.

(5) Rapid proton transfer studies in mixed aqueous DMSO, unsponsored.

(6) UNM Synthetic Fuels Laboratory Research Program, $15,000, sponsored by ERB, 1 Sept 1977 - 31 Aug 1978.

(7) Environmental impact of underground coal gasification, unsponsored.

(8) Short Course on In Situ Energy Recovery Technology, $10,000, sponsored by ERDA, July 1977.

6. Activities in learned and professional societies:

(a) FRITZ S. ALLEN

(1) Attended the annual meeting of the Biophysical Society, May 1977, Chicago, IL.

(b) CHARLES F. CAMPANA

(1) Treasurer - Central New Mexico Section American Chemical Society.

(2) Member - American Crystallographic Association.

(c) WILLIAM F. COLEMAN


"Photochemical Decomposition of 1,2-Diaminocyclohexanetetraacetatomanganate(III) Ion"

"Charge Transfer Photochemistry of Chromium(III) Complexes"

"Thermal and Photoreactions of Cr(III) Amino Acid Complexes"

(2) Attended 174th National ACS Meeting, Chicago, IL, August 28-September 2, 1977 and presented 2 papers.

"Charge Transfer Photochemistry of Cr(III)(NH₃)₅X Species"

"Excitation Dependence of the Emission Spectrum of UO₂Cl₂"

6. Activities in learned and professional societies: (Cont'd)

(d) GUIDO H. DAUB


(2) Attended the 2nd International Symposium on Polynuclear Hydrocarbon Aromatic Hydrocarbons held in Columbus, Ohio, at the Battelle Institute, Columbus Laboratories in September 1977.

(3) Attended and participated as discussion leader in the Annual Meeting of the Rocky Mountain Chemistry Chairmen's Meeting held November 17 and 18, 1977, at Boise State University.

(e) RICHARD W. HOLDER


(3) Elected Vice-President, Alpha of New Mexico, Phi Beta Kappa.

(4) Elected Councilor, Central New Mexico Section, American Chemical Society.

(f) THOMAS E. JONES

(1) Attended the 173rd National Meeting of the American Chemical Society, March 21-25 1977, New Orleans, LA.

(2) Attended the 174th National Meeting of the American Chemical Society, August 29 - September 2, 1977, Chicago, IL.

(3) Papers Presented at Professional Meetings:

"The Role of Univalently Reduced Oxygen in the Mechanism of the Oxidation of Hydrogen Peroxide by the 1,2-Diaminocyclohexanetetraacetomanganate(III) Ion," March 21-25, 1977, New Orleans, LA.


"Macrocyclic Polythiaether Complexes of Palladium(II)," 174th ACS National Meeting, August 29 - September 2, 1977, Chicago, IL.
6. Activities in learned and professional societies: (Cont'd)

(f) THOMAS E. JONES (Cont'd)


"Crown Thiaethers as Selective Analytical Reagents: Cyclic Polythiaether Complexes of Ag(I), Hg(II), Cu(I), and Cu(II)," co-authors: D.B. Rorabacher, L.S.W.L. Sokol, C.S. Liang, E.L. Yee, L.A. Ochrymowycz, 4th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, November 7-11, 1977, Detroit, MI.


(3) Attended First Symposium on Macrocyclic Compounds, Aug. 15-17, 1977, Provo, UT.

(g) MILTON KAHN

(1) Member of Sigma Xi, Phi Kappa Phi, American Chemical Society, AAAS (fellow), New Mexico Academy of Science.

(2) Addressed the Los Alamos Scientific Laboratory Advisory Committee on Medical Radioisotopes, May 19, 1977, on the "Chemical Behavior of Carrier-Free Germanium-68"

(h) MIRIAM P. MALM

(1) Member of the American Chemical Society.

(2) Member of the International Society of Heterocyclic Chemistry.

(3) Member of the Editorial Board of the International Journal of Heterocyclic Chemistry.

(i) THOMAS M. NIEMczyK


Activities in learned and professional societies: (Cont'd)

(1) THOMAS M. NIEMCZYK (Cont'd)


(j) ROBERT T. PAINE, JR

(1) Treasurer, Central New Mexico Section of ACS.

(k) E. PAUL PAPADOPOULOS


(1) SU-MOON PARK

Papers presented:


(2) "Fluorescence and Electrogenerated Chemiluminescence of Dimethyl Benzo(a)pyrenes," 19th Annual Conference on Analytical Chemistry, August 1-3, 1977, Denver, CO.

(3) "Chronopotentiometric Determination of Pseudo-First-Order Decay Rate Constants," 19th Annual Conference in Analytical Chemistry, August 1-3, 1977, Denver, CO.


(6) "Fluctuation Theory Applied to Gravimetric Analysis," The 33rd Southwest Regional ACS Meeting, Dec. 5-7, 1977, Little Rock, AR.

(7) "Determination of Stabilities of Cation Radicals of Several Monomethyl Benzo(a)pyrenes," The 33rd Southwest Regional ACS Meeting, Dec. 5-7, 1977, Little Rock, AR. Co-author: D.A. Tryk.

(m) ROBERT E. TAPSCOTT


(2) Attended the 173rd American Chemical Society National Meeting, New Orleans, LA., March 21-25, 1977 and presented a paper entitled "Chelate Ring Conformation and Carbon 13 NMR Studies on Tris(meso-2,3-diaminobutane)cobalt(III)."
6. **Activities in learned and professional societies:** (Cont'd)

(m) ROBERT E. TAPSCOTT (Cont'd)

(3) Chairman, Central New Mexico Section of the American Chemical Society.

(4) Member of the Local Arrangements Committee for the Spring, 1978 meeting of the Rocky Mountain Region of the American Association for the Advancement of Science.


(6) Working with Robert Paine as co-chairman for setting up a Careers Day program sponsored by the Central New Mexico Section ACS with the Department of Chemistry for February 9, 1978.

(7) Active member of American Chemical Society affiliated with the Inorganic Division, Sigma Tau, Sigma Xi, Alpha Chi Sigma, Chemical Society of Britain, and American Association for Advancement of Science.

(n) DAVID L. VANDER JAGT

(1) Attended ACS National Meeting, Chicago, IL, presented "Amine Requirements for Activation of 2-Oxoaldehyde Dehydr."

(o) EDWARD A. WALTERS


(2) ACS Councilor for Central New Mexico Section and National Committee Member of Committee on Professional Relations.


7. **Other professional activities:**

(a) CHARLES F. CAMPANA

Consultant - Sandia Laboratories.

(b) ROY D. CATON, JR.

(1) Reviewed paper for Journal of Inorganic and Nuclear Chemistry.
7. Other professional activities: (Cont'd)

(b) ROY D. CATON, JR (Cont'd)


(3) Presented Keynote address entitled "Mans Last Chance?", at the Southwest Junior Science Symposium, April 4, 1977.

(4) Consultant to ERDA.

(5) Consultant to Sandia Laboratories.

(c) WILLIAM F. COLEMAN

(1) Visiting Staff Member, LASL-AP-2.

(2) Visiting Scientist, Sandia Laboratories, Divisions 5151 & 5114.

(3) Reviewed 2 proposals for National Science Foundation.

(4) Reviewed 1 proposal for New Mexico Energy Board.

(5) Reviewed 2 papers for J. Luminescence.


(d) GUIDO H. DAUB

(1) Delivered an invited seminar to the Chemistry Department of Oklahoma State University in October, 1977. Talk was entitled "The Synthesis of 14C Labeled Benzo[a]pyrene and Derivatives".

(e) LORRAINE DECK

(1) Reviewed organic and inorganic textbook for publication by Holden-Day.

(2) Reviewed papers for the Journal of Heterocyclic Chemistry.

(3) Revised laboratory manual for Chem 111.

(f) ULRICH HOLLSTEIN

(1) Presented talks at Univ. of Utah, Brigham Young University, Utah State Univ. and Fort Lewis College.


(g) THOMAS E. JONES

7. **Other professional activities: (Cont'd)**

(h) **MILTON KAHN**

(1) Consultant to Los Alamos Scientific Laboratory.

(i) **DONALD R. MC LAUGHLIN**

(1) Reviewed article for publication in the J. of Chem. Ed.


(j) **CARY J. MORROW**


(2) Presented a demonstration at a local school

(3) Coauthor of departmental proposal for summer support of Undergraduate research (NSF-URP) program.

(4) Regional Science Fair Judge.

(k) **THOMAS M. NIEMCZYK**

(1) Consultant, Kirtland AFB Weapons Laboratory.

(2) Invited Seminar, Department of Chemistry, Univ. of Arizona, Tucson, AZ, Feb. 1977.

(3) Invited Seminar, Department of Chemistry, Univ. of Houston, Houston, TX, Nov. 1977.

(4) D.G. Ettinger (June 1977) and P.M. Swearengen (Aug 1977) completed doctoral dissertations under my direction.

(5) Elected to position of Alternate Councilor, Rocky Mountain Regional ACS.

(l) **ROBERT T. PAINE, JR**

(1) Consultant at Sandia Labs.

(2) Consultant at Los Alamos Scientific Labs.

(m) **E. PAUL PAPADOPOULOS**

(1) Delivered invited seminar "Reactions of Azoles with Isocyanates at Elevated Temperature" at the College of Pharmacy, University of Utah (Nov. 14, 1977) and the Department of Chemistry, Brigham Young University (Nov. 15, 1977).

(n) **SU-MOON PARK**

7. Other professional activities: (Cont'd)

(n) SU-MOON PARK (Cont'd)


(o) DAVID L. VANDER JAGT

(1) Presented research seminar, New Mexico State University.

(p) EDWARD A. WALTERS

(1) Visiting staff member, Los Alamos Scientific Laboratory.

(2) Reviewed papers for Journal of Chemical Education and Journal of the American Chemical Society.

8. Non-teaching University service:

(a) FRITZ S. ALLEN

(1) Chairman of A&S Health Sciences Advicement Committee.

(2) Member of University Computer Use Committee.

(b) CHARLES F. CAMPANA

(1) Faculty Advisor - American Chemical Society Student Affiliate Chapter.

(2) Chairman - Departmental Computing Committee.

(3) Member - Departmental Undergraduate Curriculum Committee.

(4) Member - Departmental Equipment Committee.


(6) Prepared Departmental Instrumentation Proposal to National Science Foundation (submitted November 1, 1977).

(7) Set up Departmental x-ray crystallographic laboratory.

(8) Implemented complete crystallographic program library on IBM 360 computer.

(c) ROY D. CATON, JR

(1) Student Standards Committee.

(2) Various Department committees (Chairman, Dept. Safety Committee).

(d) WILLIAM F. COLEMAN

(1) Member, Faculty Senate Executive Committee.

(2) Chairman, Senate Committee on Undergraduate Academic Affairs.
8. Non-teaching University service: (Cont'd)

(d) WILLIAM F. COLEMAN (Cont'd)

(3) Ex Officio Member Curricula Committee.
(4) Member, Provosts Advisory Committee on Priorities.
(5) Member, A&S Graduate Committee.
(6) Chairman, A&S Graduate Committee Jurisdiction Subcommittee.
(7) Member, A&S Promotion Advisory Committee.
(8) ACS Student Affiliate Advisor to 9/77.
(9) Chairman, Department Graduate Studies Committee.
(10) Member, Department Equipment Expenditures and Maintainance Subcommittee, Undergraduate Career Advisement Committee, and Building and Space Committee.
(11) Organized and participated in first new graduate student orientation.
(12) Participated in careers night.
(13) Participated in drafting department position paper for Provost.
(14) Member, U. Hollstein teaching evaluation committee.
(15) Prepared Department URP Proposal to NSF - decision still pending.

(e) GUIDO H. DAUB

(1) Chairman, Department of Chemistry, The University of New Mexico, ad hoc member of all Chemistry committees, advisor to premedical, predental and preveterinary students at UNM.

(f) LORRAINE DECK

(1) Chairman of Chemistry Department Public Relations and Social Functions Subcommittee.
(2) Chemistry Dept. key person for Greater UNM Fund.

(g) RICHARD W. HOLDER

(1) University Curricula Committee.

(h) ULRICH HOLLSTEIN

(1) Member of Research Allocations Committee.

(h) THOMAS E. JONES

(1) Faculty Sponsor for Presidential Scholars.
8. Non-teaching University service: (Cont'd)

(i) MILTON KAHN

(1) Member of University Honors Council.

(2) Member of the following departmental committees: (a) Undergraduate Curriculum Committee and Honors Subcommittee; (b) Library Subcommittee.

(3) Committee on Studies for Graduate Students, Glenn Douglas Pierce - Doctoral Candidate in Civil Engineering.

(j) DONALD R. MC LAUGHLIN

(1) Faculty advisor for LDS Student Association.

(2) Member Department Safety Committee.

(k) CARY J. MORROW

(1) General academic advisor.

(2) Departmental Committees: Graduate Studies; Chairman, Library Committee.

(3) University Committees: Science Colloquium, Sandia Colloquium.

(l) THOMAS M. NIEMCZYK

(1) Chairman, Chemistry Seminar Committee.

(2) Chairman, Chemistry Distinguished Professor Search Committee.

(m) ROBERT T. PAINE, JR

(1) Assistant Chairman, Department of Chemistry.

(n) SU-MOON PARK

(1) Departmental Committees: Undergraduate Curriculum and Honors Committee; Graduate Studies Committee.

(o) ROBERT E. TAPSCOTT

(1) UNM Minority Biomedical Support Program Advisory Committee.

(2) UNM Graduate Center for Minorities Proposal Development steering committee.

(3) Chairman, Chemistry Department Graduate Recruitment and Selection Committee.

(4) Set up and ran an orientation program for new Chemistry graduate students, Fall, 1977.

(5) Member of 16 Committees on Study. Chairman of six. Read 5 Ph.D. and 1 master's theses during year.
8. Non-teaching University service: (Cont'd)

(p) EDWARD A. WALTERS

(1) Faculty advisor to 4 graduate students; one thesis completed by Georgia T. Fritz, August 1977; served on thesis committee of 3 graduate students.

(2) Member, Departmental Graduate Student Recruitment and Selection Committee.

9. Public service:

(a) ROY D. CATON, JR

(1) Active member of the University Heights Association (formerly University Heights Community Action Group).

(b) WILLIAM F. COLEMAN

(1) Played sazaphone and sang in UNM Faculty Follies.

(2) Advisor to APS Career Enrichment Center.

(3) Advisor to APS Chemistry Programs and Science Fair Projects.

(4) Chairman, Physical Sciences Judging Panel, Regional Science Fair.

(5) Sang in Barbershop Quartet for Albuquerque Press Club and UNM Basketball Game Halftime Show.

(c) DONALD R. MC LAUGHLIN

(1) Troup 201 committee member, Boy Scouts of America.

(d) EDWARD A. WALTERS

(1) Member, St. Luke's Lutheran Church.

(2) Assistant coach, American Youth Soccer Organization.

10. Personal information:

(a) WILLIAM F. COLEMAN

(1) Total weight loss 130 lbs — constant for about 11 months now.

(b) ULRICH HOLLSTEIN

(1) Have attempted to predict my activities from Dec. 15 (the deadline of this form) through Dec. 31 (the end of the period for this form), but failed.

(c) DAVID L. VANDER JAGT

(1) New Son, Thomas Andrew 10-1-77.
APPENDIX A

THE UNIVERSITY OF NEW MEXICO

DATE: January 27, 1977

Nathaniel Wollman, Dean, College of Arts and Sciences
Guido H. Daub, Chairman, Department of Chemistry and R. T. Paine, Chemistry

Projected Building and Renovation Plans for Chemistry

This is a follow-up memorandum to two you have received from the Chemistry Department related to our needs for space. These were dated January 20, 1977, and November 30, 1976, and are attached.

The Chemistry Department Building Committee has been studying for some time various alternatives to our pressing instructional and research space needs. We have drafted a preliminary plan containing two phases:

(a) renovation and reorganization of old laboratory facilities in Clark Hall to provide more efficient space utilization.

(b) construction of a new Chemistry Building wing to house instructional and laboratory programs with a suggested size of about 25,000 - 30,000 square feet.

A. RENOVATION

At the present time the Chemistry Program is very cramped in its existing quarters. The renovation projects will relieve some of the crowding condition, but additional new space is required in order for us to continually upgrade the program.

You will find attached an outline of our proposal. Plans of the present Chemistry Building are included to help demonstrate the suggested changes.

Renovation of Clark Hall

We previously submitted a request for funds to renovate Rooms 211, 104, 106, 108, 204A, 109 and 109A (see memorandum from R. T. Paine, November 30, 1976*). This request has top priority for this year. A unified plan for the complete renovation of Clark Hall will be presented here.

Since November, we have decided to reinstitute trailer sections in Chemistry 101-102 and Chemistry 301-302. Pressure has been mounting for this move. In order to have trailer sections we need additional instructional space, faculty office space and faculty research space. The following renovation projects are requested:

*(see next page)
### Project Costs

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room 211 - Research</td>
<td>$18,500</td>
</tr>
<tr>
<td>Rooms 104, 106, 108 - Chemistry 253L</td>
<td>$100,000</td>
</tr>
<tr>
<td>Rooms 109, 109A - Chemistry 101L-102L</td>
<td>$100,000</td>
</tr>
<tr>
<td>Room 204A - Office</td>
<td>$1,000</td>
</tr>
<tr>
<td>Rooms B15, B16 Chemistry 121L-122L</td>
<td>$20,000</td>
</tr>
<tr>
<td>Room 203 Classroom</td>
<td></td>
</tr>
<tr>
<td>Room 101 Classroom</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous lighting and plumbing projects</td>
<td>$25,000</td>
</tr>
<tr>
<td>Room 215A - Student Office Conversion</td>
<td>$12,000</td>
</tr>
</tbody>
</table>

### Renovation: Explanatory Notes

Room 121 - a full explanation of this project has been previously submitted (see memorandum from R. T. Paine, November 30, 1976). This room will house a badly needed centralized instrument room for the Inorganic Division.

Room 104, 106, 108, 112, 116 - an explanation of this project was also given in the November memorandum. The project will provide a complete set of modern laboratories for Chemistry 253L located centrally in Clark Hall. The office Room 104 will be made into a balance room, while Rooms 106 and 108 will be converted to student laboratories with new laboratory furniture. Old furniture in Rooms 116 and 112 will also be replaced with new furniture.

Room 109, 109A. This laboratory now houses sections of Chemistry 101-102 and Chemistry 121-122. The laboratory furniture is very old and needs replacing. We suggested that these laboratories be completely renovated and reconstructed exactly as Room 207. These two laboratories together can accommodate all of the laboratory sections of Chemistry 101-102. The accompanying plan schematically shows how this may be accomplished.

Room 204A. This is a simple office renovation. Dr. Litchman will move from his present office in Room 104 to make way for the Chemistry 253L laboratory program. His new office will be Room 202. Dr. Caton will move from Room 202 to 204A adjoining his laboratory in 204B.

Room B15, B16. This laboratory is now used as an overflow laboratory for Chemistry 253L. We suggest that this laboratory be renovated for temporary housing of Chemistry 121-122 which would be housed in the new wing when it is completed. The laboratory furniture is adequate in the room but the hoods need to be renovated, additional laboratory furniture installed, new lighting installed and windows sealed off.
Room 203. This classroom requires new seating.

Room 101. This classroom requires new seating.

Room 215A This room now contains four student desks and a black board. It is open at the top five feet of wall adjoining Room 215B. This partitioning wall should be taken down and Room 215A made part of 215B. Two sections of new laboratory bench furniture and some cabinets and shelving would be required. The vacuum lattice racks in 215B should be reconstructed.

B. NEW WING

Chemistry 101-102 Instructional Center
The center would consist of the following:

a. two T.V. viewing rooms for display of Chemistry 101-102 lecture review and instructional tapes. They would also be used for recitation meetings.
   Size: 45 student capacity
   Usage: 8/9 hr/day

b. secretary's office - one secretary would handle the freshman program load

c. faculty office

d. teaching assistant carrels: all Chemistry 101-102, 121-122 and 141 laboratory instructors would be centrally located here in a partitioned room space for 20 carrell space offices.

e. Self instruction room:
   room for 20 carrels containing sound and visual aids equipment and related instructional material.

Chemistry 121-122 laboratory

A new laboratory for this course is desperately needed. It should be able to house six sections per week with desks for 18 students per section: total 128 student desks - we estimate about 2000 square feet.

Chemistry 331-454 Laboratory

A new laboratory is required for this course. Moving the course from its current space, Room 171, will relieve that laboratory for overflow use in Organic Chemistry. The new laboratory will be designed specifically for the course requirements. One room will serve as a "wet-laboratory" having 40 lockers and several hoods. A second laboratory of about 800 square feet will house the instrumentation for the course.
Chemistry 332 plus New Senior Laboratory

A laboratory very similar to the Chemistry 331-454 laboratory is required. There should be a wet laboratory with about 40 desks, a vacuum rack and tables for ovens and balances. An adjoining room for instrumentation would be required. About 1000 square feet total are required.

Instructional Laboratories

Several rooms are needed for housing major instrumentation facilities which we will add in the next ten years. Separate rooms for the following instruments are needed.

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Fast Fourier Transform I.R. spectrometer</td>
<td>600 sq ft</td>
</tr>
<tr>
<td>b) Raman Spectrometer</td>
<td>600 sq ft</td>
</tr>
<tr>
<td>c) ESR Spectrometer</td>
<td>800 sq ft</td>
</tr>
<tr>
<td>d) Laser Spectroscopy Laboratory</td>
<td>800 sq ft</td>
</tr>
<tr>
<td>e) Grating I.R. Spectrometer</td>
<td>500 sq ft</td>
</tr>
<tr>
<td>f) Organic Instrument Room</td>
<td>600 sq ft</td>
</tr>
<tr>
<td>g) Mass Spectrometer</td>
<td>500 sq ft</td>
</tr>
<tr>
<td>h) Unassigned</td>
<td>1500 sq ft</td>
</tr>
</tbody>
</table>

All but the Organic Instrumentation laboratory could be housed in the basement in a large open laboratory which will be divided off into individual rooms by temporary partitions. This would allow greatest flexibility.

Research Space

Several faculty are now in very cramped quarters. We need three additional laboratories for these people with about 2000 square feet total.

Our current estimate on addition of faculty during the next ten years would be that the department should add three to five new faculty positions during that time. In order to accommodate such additional faculty, we would need research space of between 6,000 and 9,000 square feet. This would be additional space needed above our current situation.

An autoclave room is needed to allow faculty and students to conduct reactions under high pressure (hydrogenation,amination and other reactions requiring high pressure systems). It would be best if this room was situated as a "penthouse" on the top of the new addition. This laboratory should have approximately 700 square feet of usable space.

A new meeting room is needed with seating capacity of approximately 30 people for use as a small seminar room, a small classroom, or a faculty meeting room. This room should be approximately two times the size of Room 166 in the Riebsomer Wing. Adjoining this room should be a small room in the form of a kitchenette to allow the preparation of such things as coffee or snacks for certain kinds of meetings.
An additional classroom seating approximately 50 people should also be added. This room can be used for both seminars and small classes.

Some faculty have asked that the Chemistry Department facility include a lounge. My personal feeling is that the meeting room suggested above with the kitchenette attached should suffice for that purpose. The electronic shop we presently have in the Riebsomer Wing will probably have to be used to provide expansion space for Dr. Niemczyk's research requirements. It is suggested that a new electronics shop be included in the new wing so that Mr. George could move into a new shop and Niemczyk can absorb the current space occupied by Mr. George. This new electronics shop would require approximately 500 square feet.

We estimate that all of the usable space in the new wing will total approximately 25,000 ± 5000 square feet. Attached to this memorandum are copies of floor plans of our current space. In the floor plan for the old Chemistry Building, we have presented two copies of the floor plan. The first copy shows the situation as it now is and the second copy shows the situation after our recommended renovation has taken place. I hope these plans will be of some value to you in presenting our case for additional and renovated space.
This is in answer to your memorandum of January 17, 1977, regarding building priorities for the Chemistry Department. Please be advised that we are sorely in need of some extensive renovation and a new wing to help relieve our present crowded situation. A memorandum was mailed to you on November 30, 1976, from Professor Paine who is chairman of our Space Committee indicating that approximately $220,000 were needed for renovation of the original Clark Hall facility. In this memorandum he spelled out pretty definitely what we have in mind and I am attaching to this memorandum a copy of this original memorandum. I want to emphasize that the renovation will not necessarily relieve our pressing needs, but will indeed improve our facilities for teaching several courses and for research. The furniture in the room specified in this memorandum is of such age that it should be replaced as soon as the funds can be found to finance the operation. In addition, the conversion of Professor Litchman's office and Rooms 106 and 108 into an additional quantitative analysis laboratory is highly desirable at this time. If at all possible, I would hope that this latter renovation could be carried out this coming summer. I am alerting Dr. Paine on the substance of the January 17 memorandum and will encourage him to try to get some information to you on our building needs as well.
In the latter part of last fiscal year the Chemistry Department submitted a request for funds which would have permitted the renovation of deteriorated laboratories in Clark Hall. That request was turned down by the central administration due to lack of funds. The ad hoc committee on space allocation in the Chemistry Department has reassessed the departmental needs and they submit the following renovation plan and funding request.

Room 211. When Clark Hall was constructed this room was furnished with 15 laboratory benches from Old Chemistry so this furniture is in excess of forty years old. Room 211 served as a research laboratory for a number of years and then was rented to La Llave by the University. La Llave used it about one and one-half years ago due to our pressing need for space. The room has been used extensively since then but the badly deteriorated laboratory tables and plumbing are making further utilization impossible. A renovation plan has been presented by the inorganic division of the department which will make the room usable again. The estimated cost for replacing the old benches with equivalent new ones is $16,000. New benches and cabinets along the north wall and down the center of the room will be installed along with a vacuum lattice rack and shelves.

The refurbished room will be used for the most part by the four inorganic faculty and their students. Common instrumentation used by these faculty, which is now inconveniently disbursed about the building, will be centralized in this room. The equipment consists of:

- Conductivity bridge
- Vacuum lines and airless-ware systems
- Leak detector
- Portable vacuum system
- Polarimeter
- Vacuum evaporators
- Magnet and quartz microbalance
- Tensimeter

Equipment which will be located in this room includes:

- Infrared spectrometer
- Visible - U.V. spectrometer
- Dry box
- Cyclic voltametry system
The renovation and centralization of equipment will benefit the research efforts of a number of faculty and students. It will further aid in the supervision of sensitive equipment and it will reduce the duplicate purchase of a number of common items.

Rooms 104, 106, 108, 204A.

At the present time Chemistry 253, Quantitative Analysis Laboratory, utilizes Rooms 112, 116, and 118. Two rooms are for actual laboratory manipulations and one small room houses unknown samples and standard solutions. There is more enrollment in this class than these rooms can handle so the overflow is accommodated in a basement laboratory, Room B15. This situation causes a number of logistical problems for the instructors and students. The Space Committee has suggested that Rooms 104, 106, and 108 (two research laboratories and Dr. Litchman's office) be renovated and made part of the Chemistry 253 complex. Rooms 108 and 106 are old research laboratories that have not been extensively used of late. Dr. Caton has drawn plans for the conversion of these rooms to laboratories suitable for Chemistry 253. Room 104 will be converted easily to a balance room. Dr. Litchman's office will be moved to Dr. Caton's present office, Room 202 and Dr. Caton will move to Room 204A. Room 204A requires some minor repair and painting before it can be occupied. The total cost for this change is estimated to be $80,000-$100,000 with the bulk going for renovation of 108 and 106.

Rooms 109 and 109A.

These rooms presently house the Chemistry 121-122 freshman chemistry laboratory. This course handles our best chemistry major students. These top students must use the most run down student laboratory in the building. The laboratory benches originated from Old Chemistry so they are more than forty years old. The wood lockers are badly decayed which creates a safety problem as well as a laboratory equipment security problem. The Space Committee proposes that the rooms be refurnished, repainted and relighted and the hoods replaced. Renovation plans have been submitted by Dr. Coleman and the price estimate for renovation is $100,000.

These last two renovation projects will be very expensive. We realize this fully and that is why we are doing as much as possible to utilize our present space before we request a new wing. During a recent open house in the Chemistry Department for high school science teachers, the teachers were shown typical student laboratories. They were surprised and disappointed when they saw laboratories such as 109, 109A B15 and 110. We can not expect to compete against other universities in our region for top undergraduates without providing competitive facilities.

The requests outlined here are the result of considerable study by the Chemistry Department. The recommendations and funding request are intended to save the University money and greatly improve the student educational/research product. With consolidations we have already made and these planned renovations we are at the point of being out of space. The Space Committee is now attempting to assess our future needs for space and an expansion plan will be submitted shortly.
Summary Budget Request

For: Renovation of Clark Hall (Chemistry)

<table>
<thead>
<tr>
<th>Rooms</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>$16,000</td>
</tr>
<tr>
<td>104, 106, 108, 204A</td>
<td>$80,000-$100,000</td>
</tr>
<tr>
<td>109, 109A</td>
<td>$100,000</td>
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</tbody>
</table>

$196,000-$216,000.
Freshman Teaching Laboratory
Chemistry 101-102

207

New Furniture
Research Laboratory
Remodel Inorganic Research

215 B
RTP

Inorganic Remodel
Spaces to be Renovated
1. Program Achievements

A. The Department Curriculum Committee, co-chaired by Drs. Hood and Butt, continued the curriculum review with several changes being recommended. The committee also continued discussion of our comprehensive examination policy and format and made several changes in our present examinations. Two graduate students participated in curriculum meetings and served as liaison with the student organization.

B. We have continued our efforts to upgrade all aspects of the Department through several approaches to program evaluation. Included were the following:

1. The entire faculty and student representatives participated in weekly faculty and curriculum meetings.

2. Meetings were held with graduate students to solicit input regarding program needs and possible means of improvement.

3. The student review committee consisting of Drs. Hood, Lybolt and Lamb screened all applicants for the graduate program. Drs. Hood and Lybolt, with assistance from others when needed, reviewed academic and clinical programs and progress of almost all of the graduate students. Attempts were made to identify and correct any weaknesses and to insure that students meet certification requirements.
well as graduate school requirements.

C. Our Field Study program, through which graduate students are placed for clinical training during their final semester, has continued to grow. Among local field study sites are the V.A. Hospital, the Albuquerque Public Schools, the Rehabilitation Center, Inc. and the New Mexico School for the Deaf. We have also arranged to place students at rehabilitation facilities in Texas and California and at the Mailman Child Study Center in Miami, Florida.

D. This year we strengthened our affiliations with the Albuquerque Public Schools. Among other contacts this year were the following:

1. APS Oral Language Speech and Hearing (OLSH) Coordinators attended faculty and curriculum committee meetings to provide input on APS needs and ways we might modify our program so that our graduates will better meet their needs.

2. Communicative Disorders students were assigned to a number of public school settings for practicum experience. Students gained experience in speech and language testing and therapy and in hearing screening.

3. Several faculty members, including Dolores Butt, Richard Hood, Mary Bolton and Carol Westby consulted with APS personnel in various situations and assisted in in-service training.

4. This year we began work on a continuing education program aimed at upgrading the knowledge and skills of practicing
speech pathologists, especially those employed by Albuquerque Public Schools. We have agreed to teach a three-credit course next year geared to meet specific needs expressed by public school personnel. The course will be taught under Communicative Disorders 420: Workshop in Communicative Disorders.

5. We are planning a special course for parents serving as teacher aides in the public schools. This course, which will be offered in the 1978 Fall Semester, is being developed by APS and Communicative Disorders personnel. The course will be taught as Communicative Disorders 220: Workshop in Communicative Disorders.

E. We have continued cooperative activities with Programs for Children this year, working primarily with Dr. Carol Westby, the Programs for Children Developmental Disabilities Team language specialist. Joint activities this year included the following:

1. Communicative Disorders graduate students gained practicum experience with developmentally disabled children under supervision of Dr. Westby.

2. Dr. Westby taught Communicative Disorders 450: Neuroanatomy and Neuropathologies last fall and is teaching a special course this summer titled Cognitive Development.

3. We are developing a special diagnostic playroom in our North Campus Communicative Disorders Unit to be used in evaluating cognitive development in young children. Dr.
Westby will coordinate clinical-research activities in this facility and is helping to equip it using Programs for Children funds.

F. During 1977 we were forced to vacate a majority of the space we had occupied for four years in the North Campus Surge Building. In its place we have been assigned four modular buildings located at the corner of Frontier and Vassar NE. This facility, to be called the Communicative Disorders Unit, has been remodeled and is now ready for occupancy. The buildings will house four full-time faculty members and one or two secretaries. They contain five diagnosis-treatment rooms, a diagnostic play room and parent intervention teaching area, speech science and organics laboratories and other rooms. The facility will be used for clinical practicum, laboratory teaching and research.

G. Early Identification - Early Language Intervention Program
The early identification project mentioned in last year's report has expanded into a major departmental program. During the past year we have followed over 200 high risk babies from the BCMC Neonatal Intensive Care Unit. Faculty and students have begun a longitudinal hearing test program and we have monitored the babies for other signs that indicate the possibility of speech and/or language disorders or other problems. Linda Weir, Supervisor in Audiology, has worked closely with several neonatologists from the Department of Pediatrics to develop and implement the program.
We have also initiated an early language intervention program for hearing impaired or developmentally disabled children. Jan Loepky, Supervisor in Audiology, is primarily responsible for the hearing program, which already is providing services for over fifteen children. Dr. Carol Westby is coordinating activities with the developmentally disabled children. A primary focus of the intervention program is parent training. The new north campus Communicative Disorders Unit has space specially designed for parent training and will be the focal point of the program.

Long range plans for the early identification - early intervention programs include development of outreach components, such as satellite centers or mobile unit activities, to provide services to other areas of the state. To this end we have obtained written endorsements and promises of support from several groups outside Albuquerque, including the San Juan Regional Medical Center in Farmington, the Northern New Mexico Rehabilitation Center in Las Vegas and the State School for the Deaf in Santa Fe. We are preparing an application for a federal grant to help develop the program.

H. Indian Health Service Research Affiliations

The Indian Health Service is providing equipment and personnel support for several collaborative hearing studies being conducted at BCMC. Linda Weir is coordinating the projects with the assistance of Betty Watrous, M.A. and Wayne Swisher, Ph.D., of the Indian Health Service.
At present we are investigating cardiac audiometry and respiration-audiometry and are working toward joint research efforts in brain stem evoked response audiometry.

11. Non-University Support

The training grant from the U. S. Office of Education, Bureau of Education for the Handicapped, was funded at $47,000 for 1977-78. Next year's grant has also been approved at $47,000. Next year the grant will include complete support for Judy Williams and Jan Loepky, clinical supervisors, as well as partial support for Curtis Weiss, Associate Professor. It also provides stipends for five graduate students, as well as funds for travel and other project costs. Part of the grant has been earmarked as support for the early language intervention program. The new grant became effective June 1, 1978.

The New Mexico Elks Cerebral Palsy Commission provides a grant each year to support a graduate student and to cover other expenses of our cerebral palsy service program. This year's grant totaled approximately $4,000. We also had small service contracts with the Los Lunas State Hospital and Training Center ($2,800) and Programs for Children ($1,400). The contracts covered primarily hearing test services provided at BCMC.

Partial or total support was provided under various contracts or grants for the following Communicative Disorders personnel:

A. Lloyd Lamb, Ph.D., Professor, Audiology (10 per cent).
B. Judy Williams, M.A., Clinical Supervisor, Speech Pathology (100 per cent).
D. Secretary-Bookkeeper (approximately ½ time).

III. Appointments to Staff

1. Carol Westby, Ph.D., was appointed Adjunct Assistant Professor, Speech Pathology, effective September, 1977. Dr. Westby, who serves as Language Specialist for the Programs for Children Developmental Disabilities Team, supervises clinical practicum for our graduate students working in that setting and this year taught two courses for our department. These courses were Communicative Disorders 450: Neuroanatomy and Neuropathologies and Communicative Disorders 551: Problems (Cognitive Development). She also is working with us to develop a diagnostic playroom at our new facility and is assisting in development of an early language intervention program.

2. Phyllis Fletcher, M.A., has been moved from part time instructor to Lecturer III (full time) to become effective July 1, 1978. Mrs. Fletcher will continue to teach our courses in manual communication and will work on several other projects including our early language intervention program and a practicum program for interpreters for the deaf in conjunction with the Albuquerque Public Schools.

3. Jan Loeppky, M.S. joined our faculty on a two-thirds basis effective August 15, 1977 and is being increased to full time as of July 1, 1978. Mrs. Loeppky is Clinical Supervisor in Audiology (Aural Rehabilitation) and will assist in developing our early language intervention program for hearing
impaired children. Mrs. Loeppky is being paid from our Bureau of Education for the Handicapped Training Grant.

4. Curtis Weiss, Ph.D., joined the faculty on June 1, 1978, as Associate Professor, Speech Pathology. Dr. Weiss will serve as coordinator of the academic and clinical programs in speech and language.

5. Linda Riensche, Ph.D., is scheduled to join the faculty in August, 1978, as Assistant Professor, Speech Science. Dr. Riensche will be primarily responsible for the basic science aspect of the program.

IV. Separations from Staff

1. John Lybolt, Ph.D., Assistant Professor, Speech Pathology, resigned effective December 31, 1977, to accept a position at the new Boys Town Center for Communication Disorders in Omaha, Nebraska.

2. Fred Chreist, Ph.D., Professor, Speech Pathology, retired from the University, effective May 31, 1978.

V. Plans for 1978-79

During the coming year we will continue working to improve all existing programs in the department. In addition, we plan to introduce new programs or give new emphasis to certain activities. Among our plans for 1978-79 are the following:

A. We will introduce a course for parent-teacher aides who work with Albuquerque Public Schools. This course will be taught under Communicative Disorders 220: Workshop in Communicative Disorders.
B. We will continue working toward an on-going continuing education program for practicing professionals by offering more courses in the late afternoon or evenings and by teaching a special course under Communicative Disorders 420:
Workshop in Communicative Disorders.

C. We will work toward on-going research programs in basic science and clinical areas, emphasizing collaborative efforts with the Indian Health Service (see I, H above).

D. We plan to apply for a federal grant to support our early identification - early language intervention program. In the mean time, we will continue development of this program using existing resources and focusing on populations at BCMC, Programs for Children and the Los Lunas State Hospital and Training Center.

E. We will continue seeking input from outside sources, such as Albuquerque Public Schools personnel, to determine areas of weakness in our students and/or ways in which we might better prepare our students for various employment situations.

F. Because of the large turn over in faculty this year, we will initiate another complete curriculum review.
VI. Composite of Information Requested on Individual Biographical Supplements

A. Mary L. Bolton

6. (a) Regional Editor-New Mexico Speech and Hearing Association.

(b) Membership Chairmen-Albuquerque Speech and Audiology Professionals.

(c) Attended Spring and Fall conventions of New Mexico Speech and Hearing Association.

(d) Attended American Speech and Hearing Association Convention Fall-1977.

7. Speech and Hearing Testing within Navajo Boarding Schools and Soccoro Public Schools.

8. (a) Hospitality Committee-Albuquerque Speech and Audiology Professionals.

(b) Academic Advisor within Department.

(c) Faculty advisor to UNM Chapter of National Student Speech and Hearing Association.

B. Dolores Butt

1. Diagnostician's Certificate State Department of Education of NM.

7. Consultant to:

(a) Program for the Physically Impaired, APS.

(b) NMSU State Standards Project.

(c) Bureau of Indian Affairs.

(d) Indian Health Service-Mental Health Branch.

(e) Therapeutic Preschool.

8. (a) Director Elks Cerebral Palsy Program in Communicative Disorders.

(b) Arts & Sciences Promotion Committee.
C. Richard B. Hood

2. UNM Educator of the Month, November, 1977, by Las Campanas Junior Honorary Society.

6. (a) Appointed to American Speech and Hearing Association's Committee on Aural Rehabilitation, January, 1977 for 3 year term.

(b) Attended meeting of Academic Rehabilitative Audiology, July 5-8.

(c) Attended Convention of American Speech and Hearing Association, November 2-5.

7. Invited ASUNM Speaker, April 5.

8. Member, Arts & Sciences Graduate Committee beginning Fall 1977.

9. Coordinated and supervised 117 complimentary hearing tests to local residents, May.

D. Lloyd Lamb


7. Member, ASHA Committee on Supportive Personnel.

8. Member, Research Allocations Committee (1976-77).

9. (a) Member, Board of Directors, Albuquerque Light Opera Association (ACLOA).

(b) Coordinator, Grants and Seminars, ACLOA.
I. General Departmental Information.

The Department of Economics provides an increasing number of offerings at the undergraduate level and has maintained the number of undergraduate majors at about 70 over the past five years. The introductory courses continue to be taught by senior faculty who have some ability to teach large classes: in addition, laboratory sections of about 25-30 each are taught by teaching assistants who work under the direct supervision of the lecturer. This arrangement seems to be the best solution to the difficult problem of sparking some interest among undergraduates.

The graduate program continues to flourish although enrollment is down somewhat this year for reasons discussed previously. To summarize, the University provides little support in the form of student financial aid and so the program is mainly supported out of sponsored research which tends to ebb and flow. While this problem has been discussed and rediscussed to the point where more would be painful, it remains as a problem to be solved.

Beginning the Fall, 1978, the department will offer an M.A. program that may be completed with evening courses.
Since announcement of this program (a mailing to major government agencies and private employers in the state as well as newspaper publicity), there have been about 25 inquiries with 6 or 8 applications to the graduate school. It is an important part of our mission to provide additional training to employed adults who will benefit and courses will be offered in the evening that allow candidates to complete the course requirements over a three year period. The particular sequence of course offerings will depend on the response to the program and needs of the students. We estimate an enrollment of 12 to 15 in this program. There is no requirement for additional resources since regular graduate course will be scheduled in the evening.

There will be significant changes in faculty next year. Professor Allen Kneese resigned to return to Resources for the Future. He will maintain his relationship with the Department as Adjunct Professor and also as an active participant in ongoing research. He will be replaced by Dr. Roger Norton who is presently employed by the World Bank. Dr. Norton's specialty is natural resource modelling for under-developed countries. He will bring this new specialty to the Department in January, 1979 and also add to our strength in the theoretical side of natural resource economics. In addition, Dr. Stuart Burness will join the
faculty in the fall, 1978 as a specialist in mineral economics. He too will fit into the ongoing program and offer one or two new courses in his speciality. These additions bring to four the number of full time faculty specializing in natural resource economics and will offer a solid specialty with some depth to our graduate students.

Members of the Department continue their research productivity -- while difficult to summarize, the following gives some indication of this activity. There have been several dozen articles and reports published during 1977: these are concentrated in the natural resource area but also include a half dozen papers in public finance as well as a book on the taxation of multinationals. The amount of sponsored research remained at a high level with six projects in natural resources and two in public finance. Finally, department members continue to be involved in local affairs through appearances on TV and presentations and discussions at local meetings.
ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 - TO DECEMBER 31, 1977

Name: SHAUL BEN-DAVID
Rank (or title): Professor of Resource Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
   See Attached Sheet

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   See Attached Sheet.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
   See Attached Sheet

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   1. Director of Resource Economics Research Program
   2. Chairman of UNM Computer Use Committee.

9. Public service (church activities, Community chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

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4. Publications:


5. Research Projects in Process or Completed:


Name: Gerald J. Boyle
Rank (or title): Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)
   None

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period
   None

3. New scholastic honors, fellowships, etc.
   None

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
   See attached

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   Grant of $42,000 from NM Highway Department to study revenue estimating and highways for energy development, completed June 30, 1977. Grant of $6,500 from NM Bureau of Revenue to complete revision of low-income tax credit through academic year 1977/78. Grant of $14,000 from NM Legislature to complete study of natural gas in New Mexico during academic year 1977/78

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
   None

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)
   Consultant to U.S. Department of Interior, Bureau of Indian Affairs on "Economic Impact of Relocating Navajo Families from Joint Use Area to House Rock Valley - Paria Plateau Area."

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   None

9. Public service (church activities, Community Chest, Boy Scouts, etc.)
   None

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)
    None

(Use additional sheet if more space is needed)


**The University of New Mexico**

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

FOR THE PERIOD JANUARY 1, 1977, TO DECEMBER 31, 1977

Name __________ Pham Chung __________ Rank (or title) __________ Professor of Economics __________

1. **Advanced study** (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. **New scholastic honors, fellowships, etc.**

4. **Publications** (give title, publisher or name of journal, page numbers, date, etc.)

5. **Other research projects or creative work in progress or completed during period** (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   **Papers completed:** 1. A Theorem on the Constancy of Factor Shares and the Cobb-Douglas Production Function. 2. On Technical Progress, the Production Function, and Economic Growth.
   **Papers in Progress:** The Malthusian Macro-model and some Modern Economic Policy Thoughts; On Neo-classicism and Institutionalism; Some Notes on Sociobiology and Institutional Economics.

6. **Activities in learned and professional societies** (meetings attended, offices held, professional papers read, etc.)
   **Papers read:** "Clarence E. Ayres and the Socialist Planning Debate", MWEA Conference, Saint Louis, Missouri, April 22-26, 1977.

7. **Other professional activities** (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. **Non-teaching University service** (administrative, committee work, faculty advisor, etc.)
   **Chairman, UA and Ph.D macro committees.**

9. **Public service** (church activities, Community Chest, Boy Scouts, etc.)

10. **Personal information** (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976

Name: Pham Chung
Rank (or title): Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)


5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
Name: Albert M. Church

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period
   Sabbatical--1976-77

3. New scholastic honors, fellowships, etc.
   Post doctoral fellow and Associate faculty member at the Lincoln Institute of Land Policy (LILP).

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   Revised and condensed report on 1975-76 research grant from EPA, The Effect of Local Government Policy Tools on Land Use and Environmental Quality--A Case Study of Albuquerque, New Mexico, for publication by EPA. NSF-RANN research grant ($125,000) "The Economic Effects of Nominal and Effective State and Federal Tax Structures on the Exploitation of Non-Renewable Resources." Approximately one-half of first draft of a book on the taxation of Non-Renewable Resources completed--to be published by (LILP).

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
   Proposed, secured funding, and organized conference on state taxation of non-renewable resources in Tucson, January 31 and February 3, funded by LILP.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   Committee member of Arts and Sciences "Interdisciplinary Social Science Course".

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)
The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977, TO DECEMBER 31, 1977

Name: Sanford Cohen

Rank (or title): Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)


5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

   for the United States, Revis.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

   Attended General Meeting and Conciliation Service Conference in Albuquerque, Feb. 27, Los Angeles.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

   Arbitration of Labor-Mgt. Disputes in New Mexico
   Arizona, Texas, Missouri.
   Consulting Activities: Various

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

   Faculty Committee for American Studies

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

FOR THE PERIOD JANUARY 1, 1977, TO DECEMBER 31, 1977

Name: Ronald G. Cummings  Rank (or title): Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
   - American Journal Ag. E
     - "Defining Upper Limits to Groundwater Development in the Arid West," Forthcoming Dec., 1977
     - "Optimal Investment Strategies for Boomtowns: A Theoretical Analysis," Amer. Econ. Rev
     - "An Economic Analysis of the HDR Geothermal Energy Resource, under Review, with 6/7
     - Journal of Natural Resource and Energy Economics.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   - "A Time Series Profile of Urban Infrastructure Stocks in Selected Boomtowns in the Rocky Mountain States," (with Arth. F. Mehr), Los Alamos Scientific Lab. LA-6687-MS, April, 1977, Funded by LASL, $25,000.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
   - A- Member, Editorial Board, Land Economics.
   - (Continued on Separate sheet)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   - MA committee: 4, major Professor for 2.
   - (continued on separate sheet)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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5. "Electricity From Hot Dry Rock Geothermal Reservoirs: An Economic Analysis," (with D. Franklin and S. Nunn), Interim Report to the Electric Power Research Institute, August, 1977; funded by LASL ($25,000) and EPRI ($70,000).


8. Member, Organization Committee for the Village Technology Center, School of Engineering.

Member, Search Committee, Latin American Center.

Chairman, Economic Department Recruitment Committee.
1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)
NOTE: This is carbon-treated stock; carbon paper not needed. Use typewriter.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name  Peter Gregory  Rank (or title)  Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period
   Sabbatical leave - fall term, 1977

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)
   Book review of Small-Scale Employment and Production in Developing Countries.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)
   Updating and revision of earlier research on wages and unemployment in developing countries for publication.
   The Chilean labor market before, during, and after the Allende government; first draft of article prepared for publication.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)
   Consultant to The World Bank on wage and employment problems in developing countries.
   Member of an economic mission to Chile sponsored by The World Bank
   Manuscript referee for Journal of Developing Areas and Industrial and Labor Relations Review.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   Performer in UNM Faculty show, spring 1977.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)
   Member, Board of Directors, Albuquerque Opera Theater
   Member and Secretary, Board of Directors, Sandia Heights Homeowners Association

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

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UNIVERSITY SECRETARY'S COPY
The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Allen V. Kneese

Name

Rank (or title)

Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

   Spent one week in Vienna, Austria at the Institute for Applied Systems Analysis (IIASA).

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

   Please see attached.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

   The Southwest Region Under Stress Project is still in progress and results are being compiled. Continued work is being done on the Southwest Policy Project (NSF sponsored) and EPA Project which is being done jointly with the University of Wyoming. A grant received from the National Science Foundation in the amount of $49,241 titled "The Ethical and Value Foundation of Benefit Cost Analysis, Sept. 1, 1977 - Dec. 31, 1978.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

   Chairman of a session (Evaluation of Environmental Damage) at the ASSA - AEA/AEKE meeting in New York, December, 1977. Paper prepared with Professor Lee Brown for presentation at the ASSA - AEA meeting (as above).

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

   I have continued to act as a consultant to federal government agencies, state officials, the National Academy of Sciences. I am presently Chairman of the Board on Mineral and Energy Resources (NAS/NRC Commission on Natural Resources).

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

   Member of Research Policy Committee (UNM)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

   (Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
Publications: Allen V. Kneese

Co-author: William D. Schulze


Co-author: Robert U. Ayres

Co-author: Charles L. Schultze

Co-authors: Blair Bower and Charles Ehler

Co-authors: Blair Bower and Charles Ehler

The University of New Mexico
ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name: David Hamilton
Rank (or title): Prof.

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)
   - Read paper in session of Southwest Social Science Association in Dallas, May 1977

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)
   - Member Faculty Senate (Writing Committee Spring 1977 and Chairman of Faculty Personnel Committee)
   - Member UAA Board Fall 1977

9. Public service (church activities, Community Chest, Boy Scouts, etc.)
   - Member of U. S. state Labor and Industrial Commission
   - Member of City of Albuquerque Parks and Recreation Board
   - Member of Consumer's Union, Educational Advisory Board

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
Popular Articles on Economics done for New Mexico independent:
Dick Knipfing really ought to include stock market and weather 1/7/77
Right to work law rears ugly head once again S.F. 2/11/77
Federal Regulatory agencies in for new wave of attack in 77 3/25/77
States are pawns in economics game of interstate industries 4/15/77
The people lose when they don't fund the University adequately 5/13/77
The way Carter manages economy reveals his unconcern for poor 9/9/77
"Left/Right" definitions defy all logic in rush to classify 10/7/77
A Ph.D. in geology does not make an economist of Jack Schmitt 11/11/77
Athletics in subsidized just like any other industry in the US 11/18/77
Social Security is not a private fund but a valid social cost 11/25/77
Where does business get the idea that Arthur Burns is good news? 12/30/77
The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1971 TO DECEMBER 31, 1971

Name: Gisser

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

ECONOMICS

Gisser

1. Reduction of Water Allocations to Irrigated Agriculture in the Estancia Basin with Implications for New Mexico: Impacts and Technological Change. Resource Economics Group, Department of Economics, University of New Mexico, Co-Author Ronald Cummings.


10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
The University of New Mexico

BIOGRAFICAL RECORD

Please type or print.

I. PERSONAL INFORMATION

Name in full: Ronald N. Johnson
Social Security No.: 073-32-7631
Present address: 1729 Madrona Drive
Seattle, Washington 98122
Present phone number: (206) 325-3687
Birthplace: New York City, NY
Citizenship: U.S.
Date of Birth: January 9, 1941
Sex: Male
Marital status: Married
Wife's maiden name: Nissley
No. of children: 0

II. EDUCATION

College, University, Professional School (Please give location) Years attended Major Minor (If foreign, please also show nearest U.S. equivalent) Degree Date rec'd
Utah State University 60-64 Econ Forestry B.S. 1965
Calif. St. U., Long Beach 69-71 Econ M.A. 1971
University of Washington 73-present Econ Ph.D. Expecting in Aug.

Thesis title: Master's

Doctor's "An Evaluation of Alternative Forms of Competitive Bidding: a case study of U.S. Forest Service Timber Sales."

Professional certification (give dates and places from which obtained)

Scholastic honors, fellowships, etc.

Foreign languages: reading knowledge Spanish
speaking knowledge Spanish

III. MILITARY SERVICE (give details of rank, dates, places, type of service, present status)

U.S. Navy reserve, April 1965-April 1967 - Honorable Discharge

(Attach additional sheets if more space is needed)
IV. PREVIOUS EMPLOYMENT (Please give a complete chronological listing of all teaching and other pertinent employments; include name and location of institution or other employer, academic rank or other title, salary and inclusive dates of each appointment, and (if teaching) subjects taught).

1976 - present -- Consultant, Kitsap County School District - Salary varies.
1974-76 -- Research Assistant to Gardner M. Brown, Jr., University of Washington - Salary $500/month.
1973-74 -- Teaching Assistant, University of Washington - Principles of Economics - salary $450/month.

(Attach additional sheets if more space is needed)

(2)
The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1977 TO DECEMBER 31, 1977

Name: JONAS, Paul

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

   NONE

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

   NONE

3. New scholastic honors, fellowships, etc.

   

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

   

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

   

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

   

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

   NONE

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

   MACRO COMMITTEE; Chairman; MA Committee (Prosbrain); member Ph.D. Committee (Ncola)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

   NONE

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

   NONE

(Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
Name: Gary D. Libecap  
Rank (or title): Assistant Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)
Name: Alfred L. Parker

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

   On Sabbatical—Spring semester 1976-77 and Fall semester 1977-78

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)


5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

   "The Economic Consequences of Industrial and Residential Development As They Affect Water Quality in the Southwest," Year One Report. Research sponsored by the U.S. Forest Service. 7 years ($15,000). (#5 continued on separate sheet)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)


7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

   Consultant to Jicarilla Apache Tribe (oil and gas leases, taxes, royalties and related legal action).

   Consultant to Resources for the Future on a project entitled "A RFF Forum on the Impact on Western Water, Fish and Wildlife of Energy Development. (#7 continued on separate sheet)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

   (Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
Alfred L. Parker  Professor of Economics


(In Progress) Co-editor with Allen Kneese and Walter Spofford, collection of papers concerned with the impact of energy development on Western waters, fish and wildlife Manuscript to be considered by RfF for publication.

(In Progress) "Potential Impacts of Energy Development on Land Use and Recreation in the Upper Colorado River Basin," to be included in RfF manuscript described above.


7. Consultant to Mountain Bell Telephone on "Long Run Incremental Cost Pricing" and related regulatory matters.
The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

FOR THE PERIOD JANUARY 1, 1977, TO DECEMBER 31, 1977

<table>
<thead>
<tr>
<th>Name</th>
<th>Donald C. Tailby</th>
<th>Rank (or title)</th>
<th>Assoc. Prof.</th>
</tr>
</thead>
</table>

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

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

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

UNIVERSITY SECRETARY'S COPY
THE REPORT OF THE DEPARTMENT OF ENGLISH

JULY 1, 1977 - JUNE 30, 1978

Joseph B. Zavadil, Chairman

1. General Information

A. By some ancient calendar for academics 1977-78 must have been the year of the Screwdriver. During the past two semesters we have been little involved with new construction. On the contrary, for the most part we have tinkered with established programs, adjusting and tightening -- mainly tightening. Certainly we tightened the Freshman English Program with increased training and supervision of teachers and with development and enforcement of the panel-graded final exam system for English 101. In the Graduate Program we tightened the language requirement for the Ph.D. and some policies for comprehensive examinations. And perhaps throughout the curriculum in day-to-day classroom work we tightened something too, because as the college was quick to note, the grades we gave dropped considerably. By tightening, of course, we found ourselves very much in harmony with conservative emphases throughout the university. For, as we all know, the sabbatical leave policy was tightened during 1977-78; the policy on faculty teaching loads was tightened; and the budget was tightened -- especially the one recorded in our personal checkbooks, where over the year we will surely watch inflation smother the terms of our new contracts. In the last twelve months pressure has certainly been applied to the screws.

Individually, members of the department were typically active during the year, as later parts of this report will demonstrate. Some achieved particularly notable distinction. Rudy Anaya was awarded a fellowship for 1978-79 by the National Chicano Council of Higher Education. Morris Eaves was published in MLA. Bob Fleming had both his bibliography of Johnson and Bontemps and the Twine Motley book appear. Cheryl Freach received an A & S grant and Peter White an NEH grant for research this summer. Gene Frumkin co-edited one anthology of regional writing and Jane Kopp another. Ham Hill was selected to direct an NEH seminar for college teachers during 1978-79 (following up the 1977 summer seminar funded by NEH); and the Blair-Hill history of American humor was published late in the spring. Leslie Silko received an NEH grant covering the current calendar year for the Laguna Pueblo Film Project. And Hugh Witemeyer had a book accepted by Princeton in record short time.

Several important changes in faculty status or personnel were also recorded during the year. Bill Dowling, Mike Fischer, and Leslie Silko successfully met the demanding professional criteria and were renewed for second three-year-term appointments, which are probationary. Robert Creeley taught as Visiting Professor in the spring semester. Hugh Witemeyer was designated Director of Graduate Studies in the department for next year. When Lynn Bloom resigned to accept another position, Mike Hogan was both promoted in
rank and appointed to replace her as Director of Freshman English. We received two new full-time (though temporary) positions to bolster teaching in the Freshman Program next year. And after another long effort at recruiting for the senior Renaissance position, our bad luck of last year finally changed, and we will have Richard Fly in 1978-79 on a visiting basis that we think will change to permanent thereafter. Maybe it wasn't the year of the Screwdriver.

1. Freshman English Program
Directors: Michael Hogan (Fall), Lynn Bloom (Spring)
Assistant Director: Zane Taichert
Freshman English Committee: Rose Anstine (replaced by Meredith Machen), Ed Mahoney, Antonio Marquez, Peter Page

Enrollments remained high in the three freshman English courses during the 1977-78 year. This, coupled with the many TAs who completed their course of study the previous year or who left UNM at that time for other reasons, made staffing a particular worry. Fortunately, we had five or six full-time members of the department each semester teaching freshman courses, and were able to find twelve to fifteen people living in the community who served very capably as temporary lecturers. Because we had many first-year teachers and many teachers new to our freshman program, much of the year's effort was given to training—visiting classes, monitoring grading, and discussing teaching strategies. Perhaps the effectiveness of the measures to train and supervise our teachers is most clearly evidenced in the rigor and consistency now evident in the grades given in freshman classes. Our commitment to this training will if anything be stronger next year: next fall all teachers new to the freshman program at UNM (rather than only those without classroom experience) will be required to take English 537, Studies in Composition for Teachers, which will be taught by Peter Page. Also, we have, with the cooperation of the Graduate Director, made uniform the requirement that candidates for an Assistantship submit a sample of their writing.

We continued to study and amend the curricula in freshman courses. The use of a workbook (instead of a programmed text) in English 100 proved moderately successful, though the particular workbook had weaknesses, and another, The Harbrace College Workbook, has been selected by the Freshman English Committee for use next year. In English 101 the commitment to teaching writing by using an anthology of readings on language continued. Options for topics for the research paper required of all 101 students were increased last year, and this proved a successful step. Last year also saw the introduction of panel grading of all 101 final examinations, with the panel evaluating final essays as either "pass" or "fail," and with the requirement that a 101 student pass in order to receive a grade of C or higher in the course. Several uncertainties and rough spots that cropped up in the panel-grading procedures during the first semester were eliminated by amendments made for the second: all papers had two readings to pass, and 101 teachers were invited to appeal to the Director the need to give a D or F to a student who failed the final but entered the final with at least a B average. The Freshman English Committee selected a new text for 102 next year, Interpreting Literature. This anthology, the
committee thought, has a comprehensive sampling of literary types (including some expository essays) and offers thematic groupings of material, and arrangement that 102 teachers have found effective in the past two years.

Two research projects were conducted during the Spring semester. "Identifying and Reducing Writing Anxiety," directed by Prof. Bloom and funded by the Greater UNM Fund, sought to determine the extent to which writing anxiety (fear of failure, procrastination, avoidance or tension due to ignorance of the topic or of how to write, inability to overcome distractions in the environment) exists in composition students. The project also tested methods and strategies teachers might use to alleviate such anxiety. The semester's data has been collected and is now being tabulated. Four teachers (of five sections) of 102, in another project, used a sampling of expository essays or informative writing as part of the required reading in their sections. This reading replaced some of the literature now regularly taught in 102, though the experimental sections continued the use of writing about literature in part. Student essays from points early and late in the semester have been collected and will be compared to essays from sections that used the standard 102 syllabus. We expect to have some results from this research available later in the summer.

Future tasks include: bringing greater logic to the staffing and training of freshman teachers; making both the CST Director and the Assistant Director continuing positions held by members of the full-time staff; settling the division in 102 between teaching compositional skills and introducing students to literary terms and theories; bringing increased communication and cooperation between the freshman program and the state's secondary schools (all high schools in New Mexico will receive a copy of the student's informational handbook, *Freshman English at UNM* in September); establishing more continuity in the dealings of the freshman program with the on-site programs, continuing education, and the tutorial program. Dreams include instituting a writing workshop available to students in freshman courses and offering courses and programs of study on composition to the growing number of graduate students who want them.

2. Undergraduate Program
Advisers: Bill Dowling, Morris Eaves, Mike Fischer, Bob Fleming, Cheryl Fresch, David Remley, Peter White

We tried to improve undergraduate advising during the spring. Each English major that we could identify received a letter from one of the undergraduate advisers extending an invitation to confer before registration for fall 1978 began. About 120 letters were mailed, but response was disappointing. Under present record and registration systems, apparently we will not be able to require students to talk with us until they apply for degree. Many of us think that students ought to be referred to departments for information about planned major programs before they are formally admitted to the college, and that such contact with some department ought to be a condition
for admission to the college. We want to keep in touch with our students and their progress both before and after they complete degrees, and indeed we are being encouraged to do so. At the moment we need help if we are to reach those who do not seek us out.

3. Creative Writing Program
   Director: David Johnson (Fall), Gene Frumkin (Spring)
   Creative Writing Committee: Rudy Anaya, Gene Frumkin, Rick Calum, Douglas Lowell

   Creative Writing prizes for 1977-78 were awarded to three students. Wendy York won the Academy of American Poet Prize, with Michael Golston and Jon Hardman receiving honorable mention. Caryl McHarney won the Lena M. Todd Memorial Award for Fiction, and Michael Golston won the Todd Memorial Award for Poetry.

   Since the New Mexico Writers Workshop was very successful during the summer 1977 another workshop was planned for 1978. This time the workshop included magazine writing (taught by Lois Arquette) as well as fiction (Rudy Anaya) and poetry (David Johnson). The workshop which extended from June 12 to June 30, was preceded by a weekend conference (June 9-11) that featured Richard Bradford, Robert Creeley, Tony Rillerman, and Frank Waters. Registration for both the conference and the workshop was extraordinarily high, so these summer offerings seem assured of a long future.

   On April 14 and 15 the Coordinating Council of Literary Magazines, of which Rudy Anaya and Leslie Silko are members, held a regional conference for writers and editors here on campus. The conference included readings by several authors of national reputation and a panel concerned with problems in publishing that small presses and little magazines face. Departmental faculty were prominent in these public events.

4. Graduate Program
   Director: David McPherson
   Graduate Committee: Edith Buchanan, Mary Power (Fall), Ellen Spolsky (Spring), Linda Van Buskirk, Hugh Witemeyer

   No radical changes were made in the graduate program during 1977-78. Such changes as there were may be conveniently divided into three categories: graduate examinations, recruitment, and language requirement.

   A new policy was instituted regarding the reports on graduate examinations. Each committee which grades a graduate examination will prepare a joint report on the strengths and weaknesses of individual questions and of the examination paper as a whole. The student may be given a copy of this report upon request. It will be signed by the readers. Two new policies were adopted concerning the major field examination for the Ph.D. First, the areas in which the student is to be examined must be approved no later than the end of the previous semester by both the student's Committee on Studies and the Graduate Committee. Second, the major field examination will be drafted by the Committee on Studies and reviewed by the
Graduate Committee. Finally, two new policies concerning the minor field examinations for the Ph.D. were adopted. First, individual questions will be drafted and read by experts in the field, who will report a grade to the Graduate Committee. Second, questions will differ from M.A. examination questions by being narrower and asking for greater depth in the answers. The net effect of these changes is probably to concentrate more responsibility in the hands of the Graduate Committee. The committee believed that these changes would be desirable because they would help ensure that uniform standards are applied to all degree candidates. The Policy and Personnel Committee approved all of these changes. The committee also devised as an experiment a set of objective questions which will be given students taking the M.A. examination in July, 1978. We want to know just how strong or how weak our students are in their factual knowledge.

The committee spent a great deal of time devising a poster to aid recruitment. Of the 75 applications, only two showed any awareness of the poster. This fact suggests that the poster is more trouble than it is worth. Another change in the area of recruitment was the fact that for the 1978-79 school year the committee admitted 16 of 30 applicants for the Ph.D. program, despite our long-standing policy of admitting only eight new Ph.D. candidates per year. The reason for the increase is not that the committee anticipates the availability of more jobs for college English teachers; the reason is that six of the sixteen already have secure teaching jobs to which they plan to return or for some other reason they do not need financial assistance from this university. Since all 16 appeared to be qualified students, the committee saw no reason to deny them admission. One other important change was instituted in recruitment: henceforth all applicants must furnish scores on the Graduate Record Examination, both the Aptitude Test and the English field examination.

Finally, the committee proposed and the Policy Committee approved a more rigorous language requirement for Ph.D. candidates. Instead of being required to demonstrate a moderate competence in one language, the candidate will have to show either (1) a high level of competency in one language, or (2) a moderate level in two. The proposal as approved defines "high" and "moderate" and spells out the ways in which these levels must be demonstrated.

If there is any general trend to all these minor changes during 1977-78, it would seem to be in the direction of stiffening requirements somewhat.

5. The department sponsored a particularly rich series of lectures during the year:

   a. On October 14, Colin Williamson, University Lecturer in English Literature at Oxford and Tutorial Fellow at Jesus College, lectured on "Three Faces of Elizabethan Love Poetry."

   b. On October 18, Thomas Rogers, novelist and Professor of English at Pennsylvania State University, read from his own works with added commentary.
c. On November 11, Helmut Gerber, Professor of English at Arizona State and editor of Literature in Transition, delivered a paper entitled "A Brilliant but in Part Abortive Effort," which was concerned with British writing from 1880 to 1920. This was the annual exchange lecture with Arizona State.

d. On February 17, Professor Rowland Smith of Dalhousie University in Nova Scotia, lectured on "The English Literary Scene in The Early Years of World War II."

e. On February 24, Ian Fletcher, who is Reader in English at the University of Reading and distinguished specialist in British Literature at the turn of the twentieth century, delivered The Annual Carl Grabo Memorial Lecture. Professor Fletcher's subject was "Yeats' 'Leda and the Swan': Nineteenth-Century Visual and Literary Sources."

f. On March 24, Sean Hignett, British author and lecturer at the University of Edinburgh, talked about "The Current British Literary Scene."

g. On May 5, Mary de Rachewiltz, daughter of Ezra Pound as well as poet and translator in her own right, gave a paper on "The Radio Speeches of Ezra Pound."

6. The department also participated in sponsorship of the following events:

a. A pair of lectures on Semiotics by Thomas Sebeok, Professor of Linguistics at the University of Indiana (March 20, "Clever Animals and Dumbfounded People -- A Semiotic Analysis") and Jonathan Culler, Professor of English at Cornell (April 17, "The Semiotics of Literature").

b. A Lecture (April 13) on contemporary critical perspectives by eminent German scholar Gerhard Hoffman, whose reputation as critic of Modern American Literature is international.

c. A symposium on Literature and New Mexico which was organized by Professor Claude Senninger and co-sponsored by the Department of Modern and Classical Languages. This symposium featured distinguished French writers Jean Marie LeClario and Nathalie Sarraute in a series of panel discussions, along with faculty from the co-sponsoring departments.

7. Robert Sattelmeyer, who completed his Ph.D. in 1975, won the Popejoy Dissertation Prize for 1978. The department nominates one dissertation for this prize every third year, and the competition involves seven other departments in the university. The award, which provides $1000 to the winner, is designed to recognize and encourage "The highest level of academic excellence." Since Bob Sattelmeyer (now Assistant Professor of English at the University of Missouri) is the second
nominee from English to win the Popejoy Prize in ten years, the department has good reason to be very pleased as it joins in congratulating the winner. The winning dissertation is titled Away from Concord: The Travel Writings of Henry Thoreau. The faculty director was Leon Howard.

8. The D. H. Lawrence Fellow for 1978 is Karen Hillier, an artist who teaches at Texas A & M University. Ms. Hillier was selected by a committee which included Gene Frumkin, Hugh Witemeyer, Harvena Richter, and Al Bearce. Again competition was strong, and the decision was difficult. Writers and artists from all parts of the country continue to be interested in the opportunity to spend a summer at The Lawrence Ranch. And now, after two years of financial uncertainty, the Fellowship has an assured future, since President Davis has agreed to provide annually that portion of the stipend not generated from the Fellowship fund.

9. Total enrollment in all English classes for 1977-78 dropped 7% from the level for 1976-77. Most of this drop was recorded in the general literature courses (270,280,300,360), which are intended substantially for non-majors and non-minors. In these courses we reduced the total number of sections by 15%, and the combined enrollment dropped by 28% (from an average of thirty students per class to an average of twenty-five). Enrollment in the major program (290,294,296,351-354,375-490) remained constant — from 1266 to 1258, with the class average remaining at twenty-two students. Total enrollment in 100-level courses dropped by 3.8%, but the demand for classes remained strong at the beginning of each semester. Enrollment in other writing courses (220 and 320) increased by 7%. Graduate enrollment decreased at the same rate (7%). Obviously we will continue to face great demand from students for instruction in writing. The major program seems to be holding its own. If we wish to restore lost enrollment in the general literature courses, we probably have some serious planning to do. On the other hand, since some of the loss there last year resulted from a shift of senior faculty to the Freshman English Program, perhaps general literature offerings should not be a major concern. A certain amount of annual variation will be inevitable in that portion of the curriculum anyway.

C. Richard Fly joins the department next year as Visiting Associate Professor. His research has been concentrated on Shakespeare, but he will teach courses in the Renaissance generally. Professor Fly completed the Ph.D. at UC Berkeley in 1971. He has been at SUNY Buffalo since 1969.

D. Lynn Bloom resigned as Associate Professor in April. She will take a position with the same rank at the College of William and Mary in Virginia. Edith Buchanan retired amid appropriate tribute and, of course, universally-shared regret.
PART II
ANNUAL REPORT - 1977/78

1. ADVANCED STUDY

Patrick J. Gallacher
-Two weeks research, in July, 1977, at the Huntington Library, San Marino, CA.

Hamlin Hill
-Research, University of California, Berkeley, January 1977.

2. SABBATICALS ETC.

Rudolfo Anaya
-Travel and research in Yucatan

James F. Barbour
-Sabbatical leave beginning the fall semester 1977.

Robert F. Fleming
-Research at the University of Illinois library, June 1977.

David Johnson

David R. Jones
-Sabbatical leave academic year 1977/78

Jane Kopp
-Sabbatical leave, academic year 1977-78

Thomas Mayer
-Sabbatical fall 1977.

Mary Jane Power

David Remley
-Sabbatical leave, Fall 1977.

Harvena Richter
-Month of November spent in London, England, doing research on an early ms. of Mrs. Dalloway in the British Museum. Also visited Virginia Woolf's house in Rodmell (subject of essay to appear late April '78) and the Quentin Bell's (V.W.'s nephew/biographer and vife).

Leslie Marmon Silko
-Leave Without Pay, Spring 1978

Marcia Tillotson
-Austin, Texas, to work on Byron Apocrypha at the Humanities Research Center, University of Texas.
2. Continued

Mary Martha (Marta) Weigle
-Adjunct professor, Ph.D. committee of Martha Iwaski, Union Graduate School West.

3. NEW SCHOLASTIC HONORS ETC.

Rudolfo Anaya
-Awarded Post-Doctoral Fellowship by the National Chicano Council on Higher Education (April 1978). The award is to cover the full academic year 1978/79.

Ernest W. Baughman

Edith Buchanan
-Distinguished Professor, Undergraduates, 1977
-Who's Who in the Southwest

Michael Fischer
-College of Arts and Sciences Summer Research Stipend - Summer 1977

Cheryl Hope Fresch
-College of Arts and Sciences Summer Research Stipend - Summer 1978

Patrick J. Gallacher
-Appointed a member of the Executive Council of the Medieval Association of the Pacific. March 1978 chosen educator of the month by Las Campanas.

Hamlin Hill

Marcia Tillotson
-Honorable Mention, WCML essay contest, "'Her Hideous Progeny': Mary Shelley, the Monster, and Frankenstein"

Mary Martha (Marta) Weigle
-Zia Award (for outstanding New Mexico author), New Mexico Press Women, 23 April 1977

4. PUBLICATIONS

Rudolfo Anaya
-"The Writers Landscape", article, SOUTHWEST AND CEA CRITIC
-Wrote introduction to Sabine Ulibarri's MI ABUELA PUMABA PUROS (MY GRANDMOTHER SMOKED CIGARS).

James F. Barbour
-"'The Light of the World': Hemingway's Comedy of Errors," Notes on Contemporary Literature, 7 (December, 1977), 5-8.
4. Continued

Ernest W. Baughman
- "Excommunications and Banishments from the First Church in Salem and the
  Town of Salem, 1629-1680," Essex Institute Historical Collections, 1977
  Volume 113, No. 2, pp. 89-104

Paul B. Davis
- "To Air is Human: Some Humanistic Principles in the Design of Thermosiphon
  Air Heaters," proceedings of the ERDA Conference on Passive Solar Heating
  and Cooling, Los Alamos Scientific Laboratory, pp. 40-45
- "To Air is Human" Another version. Solar Age, II, 2 (February 1977) 24-27
- "Living in a Solar House" Bulletin of the New Mexico Solar Energy Assoc.,
  Oct. 1977

William C. Dowling
- The Critic's Hornbook (Harper & Row, 1977)
- "Johnson Redivivus" (review of W. Jackson Bate's Samuel Johnson), Inquiry
  (December 1977)

Morris Eaves
  (Oct.), Vol. 92, No. 5, pp. 903-927 (illustrated).
  Vol. 16, No. 2, pp. 251-260.
- FORTHCOMING: "Lamb, Charles," entry in Milton Encyclopedia, ed. William B. Hunter,
  Jr. (Bucknell Univ. Press).
- "What Is the 'History of Publishing'?" Publishing History 2 (Cambridge, England:
  Somerset-Maitland).
- Comprehensive index to Foster Damon's Blake Dictionary, scheduled for publication
  as a separate volume by Brown University Press.

Michael Fischer
- "Matthew Arnold's Anticipation of Subsequent Challenges to Humanism" - Essay
  accepted by So. Humanities Rev.
- "The Imagination as a Sanction of Value: Northrop Frye and the Uses of
- "The Legacy of English Romanticism: Northrop Frye and William Blake" (Blake:
  An Illustrated Quarterly, forthcoming), Spring, 1978
- Review of Cunningham, J.V. The Collected Essays of J. V. Cunningham (Rocky

Robert Fleming
- "Hemingway's Treatment of Suicide: 'Fathers and Sons' and For Whom the Bells

Cheryl H. Flessel
- "Milton's Eve and the Problem of the Additions to the Command" accepted by

Gene Frickin
- The Indian Rio Grande: Recent Poems From 3 Cultures. Cerrillos, N.M., San
Gene Frutkin

Hamlin Hill
- America's Humor from Poor Richard to Docunesbury, with Walter Blair, Oxford University Press, 1978.
- Guest co-editor, American Literary Realism 10 (Summer, 1977) (George Armes issue).

Michael J. Hogan
- "Grammatical Tenuity in Fiction," Language and Style (forthcoming).

Leon Karow
- Renaissance Uses of Racist Logic (for private circulation), Albuquerque, 1977, 100 pp.

David Johnson
- 4 poems in Shepard's Rio, Hard Press
- 4 poems in Out of Sight
- "Women in a Spanish Fishing Village," Cafe Solo, #10, Autumn 1977
Ivan Melada

Peter Page

Harvena Richter
--Poem sequence, "Seven Scenes from Meditation" in the Winter 1977-78 issue of South Dakota Quarterly.
-Poems, "Owning" and "A Riddle" Sept. 8th and 19th, on Home Forum Page, Christian Science Monitor

Leslie Marmon Silko
-Novel, CEREMONY, Viking Press

Ellen Spolsky
-The Consolation of Alison: Conseillying is no Comandement" forthcoming in Centrum

James L. Thorson
-Notices of two papers to appear in Restoration, A Newsletter, in the Spring issue.
-"American Satiric Fiction since World War II," (in Macedonian) in Sovremennost Contemporary Review, pagination upon publication this fall or winter.

Marcia Tillotson
-Review of Byron Bibliography for Modern Humanities Review/Yearbook of English Studies.

Mary Martha Weigle

Peter White
4. Continued

Hugh Witteemeyer

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS ETC.

Rudolfo Anaya
- "The Village Which the Gods Painted Yellow", short story
- "A Story", short story
- Work on novel in progress
- Appointed associate editor, THE AMERICAN BOOK REVIEW

James F. Barbour
- "Sources and Genesis for Melville's "Norfolk Isle and the Chola Widow"":
  - submitted; "The Natural: Epitaph for Eddie Waitkus"
  - submitted; articles on Cather, The Professor's House; Bouton, Bell Four; Malamud, The Natural; Hemingway, "The Very Short Story" ET AL.

Ernest W. Baughman
- Continuing study of church and court records of members and nonmembers of Salem, Massachusetts. Continuing study of style characteristics of Nathaniel Hawthorne.
- Continuing cataloguing of student collection of folktales and folk beliefs.

Edith Buchanan
- Continued work of epic structure in Milton

William C. Dowling
- The Logic of Literary Interpretation (book)
- "Wittgenstein and 'Logical Space'" (article)

Norris Eaves
- book: William Blake and the Technologies of Art (in process, substantially complete)
- book: The Marriage of Heaven and Hell (in progress: draft complete)

Michael Fischer
- Completed first three chapters of book, tentatively entitled Defending Literary Study: Literature as Social Criticism.

Robert E. Fleming
Cheryl Hope Freach

Patrick J. Gallacher
- "Aesthetic Distance, Self-Knowledge, and Attitudes Towards Sickness in the Summoner's Tale," article submitted for publication.
- "Irony, Wisdom, and Inexpressibility in the Merchant's Tale," 57 page (typescript) article being revised for recirculation.
- "The Body of this Pilgrimage", a project that will, result in a book.

Hamlin Hill

Michael J. Hogan
- "Words, the World, and John Hawkes," an essay now circulating.
- "Voice as a Critical Concept" in preparation.

Leon Howard
- The Creative Imagination in American Fiction (prospective book)

David G. McPherson
- Research for book to be called Shakespeare and Renaissance Diplomacy (in progress)

Ivan Melada
- Extensive research for a new course: "Politics and Literature".
- Four essays circulating: World War I writers; Wm. Morris; Graham Greene; John Ruskin.
- Another essay on H. G. Wells being prepared to circulate.
- Ms. on War and English Lit in hands of Cooperative Imprint, Miami U. and Ohio State since August, 1977.

Roy G. Pickett
- Reading in literary structuralism and stylistics
- Study of Spanish

Harveya Richter
- Signed contract with Princeton University Press for CONRAD RICHTER ON WRITING (completed half of the ms. during summer). In progress: two articles on Virginia Woolf.

Leslie Marmon Silko
- National Endowment for the Humanities grant for Laguna Pueblo Film Project, (in progress), Spring 1978.

James L. Thorson
- Continued research in seventeenth century English literature and Yugoslav-American literary relations.
5. Continued

Marcia Tillotson
-Still working on bibliography of Byron Apocrypha
-Writing review of several works by Mary Wollstonecraft and a biography or her for <i>Blake: an Illustrated Quarterly</i>.

Fred Warner
-Research at Humanities Research Center, University of Texas (Austin), sponsored by UMM Research Allocations Committee, May, 1977. Subject: T. J. Wise Forgeries.

Mary Martha (Marta) Weigle
-Two book review notes for <i>JOURNAL OF ANTHROPOLOGICAL RESEARCH</i>.
-Completed final work on ms. for UMM Press (to be published June 1978), co-editor with Charles L. Briggs; to be entitled "Hispanic Folklore of New Mexico: The Lorin W. Brown Federal Writers' Project Manuscripts."

Mary Rose Whidden
-"The Method of Amoretti 15" in circulation.

Peter White
-Awarded National Endowment for the Humanities, for Summer 1978, Stipend, $2500.
-several short articles under consideration.

Hugh Wittemeyer
-In progress: book-length manuscript entitled <i>George Eliot and the Visual Arts</i>.

Joseph B. Zavadil
-Essay on Chaucer's Life of St. Cecilia in progress; one draft completed.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES ETC.

Rudolfo Amaya
-Member AAUP
-President, Rio Grande Writers Association
-Member of board and Executive Committee of CCLM the Coordinating Council of Literary Magazines
-Lectures at Occidental College, CA, Eastern NM University, UC Santa Barbara.
-Formal talk to Chicano students UCLA
-Lecture at RMMLA, Santa Fe.

James F. Barbour
-MLA Member
-RMMLA member

Ernest W. Baughman
-Editor: <i>New Mexico Folklore Record</i>.
Morris Eaves

Robert Fleming

Gene Frukin
- Board member, Rio Grande Writers Assn.: attended meetings in Las Vegas, NM (April) & Las Cruces (Oct.)
- Guest Reader, ASUM-SSA Poetry Series, URM
- Reader-Lecturer, URM Summer Workshop;
- Judge, Coordinating Council of Literary Magazines College Magazine Contest
- Poet-in-Residence, Poetry-in-the-Schools, Las Vegas, NM.

Patrick J. Gallagher

Hamlin Hill
- Keynote speaker, Missouri Philological Association, Warrensburg, MO, February 18.
- Exchange lecturer, Arizona State University, April 29.

Michael Hogan
- "New Directions in Teaching College Writing," Kansas Conference on Composition and Literature in the Schools, Lawrence, Kansas, October.
- Attended NMCTE Conference, Santa Fe, and CCCC in Kansas City.

Leon Howard

David M. Johnson
- Secretary, The Rio Grande Writers Association

Ivan Melada
- Member, MLA
- Member, RMMLA
- Active Member, Friends of The Huntington Library

Peter Page
- Attended New Mexico Council of Teachers of English in Santa Fe, Oct. '77.

Ellen Spolsky

James L. Thorson
- Presented paper on Charles Cotton at Midwest Modern Language Association meeting in Chicago in October.
María Tilletson
"Her Hideous Progeny," paper read at RMMLA, October 1977
"Training Women Readers," paper read at RMMLA, October 1977

Fred B. Werner
- RMMLA meeting at Las Vegas, Nevada, Oct. 20, 21, 1977
- Attended annual convention Rocky Mountain Modern Language Association, read a paper, "They Can't Read, Either" at the Composition Section Meeting.

Mary Marthe (Martha) Weigle
- Publications Editor, American Folklore Society, appointment as of Nov. 1977.
- Editor, Folklore Faculties Communication (to be changed to Folklore Women's Communication), a newsletter of the Women's Section of the American Folklore Society.
- Second Vice-President, New Mexico Folklore Society.

Peter White
- Appointed assistant editor of Minority Voices: An Interdisciplinary Journal Literature and the Arts.

Hugh Witsesyer

7. OTHER PROFESSIONAL ACTIVITIES ETC.

Rudolfo Anaya
- 1977 Commencement speaker at College of Santa Fe;
- Commencement speaker for graduating class at the National College of Business, Albuquerque.
- Faculty advisor to UEM Literary Magazine
- Judge in WRITERS FORUM literary contest, Colorado Springs
- Read at FLORICANO national chico nm literary conference
- Speaker at Sandia Hi, Rio Grande Hi, John Adams Jr. Hi
- Interview in KRBQ
- Spoke to chapter of AAUW
- Addressed UBA Literature Panel, Santa Fe

James F. Barbour

Morris Raves
- Co-Editor, BLAKE/A Illustrated Quarterly
- Delivered a Presidential Scholars Colloquium, 10 Nov. 1977 (on art & technology)
Patrick J. Gallacher
-Lorraine Attreed, a student who took three of my courses, was the first student at UNM to win a Marshall Scholarship. Several members of the faculty had a hand in this, of course, but I believe that, apart from the student's own considerable merits, I played the most important role—coaching, exhorting, encouraging.

Hamlin Hill
-Lectures: University of Texas at Austin, January 27; Casper Community College, March 24-25, University of California at Berkeley, December 19-20.
-Referee: National Endowment for the Humanities, Media Division and Division of Research Grants.

Michael Hogan
-Consultant Reviewer for Holt, Rinehart and Winston.

Leon Howard
-Member Advisory Board, Northwestern—Newberry edition of The Writings of Herman Melville.

David M. Johnson
-Workshop in teaching the novel, Socorro High School, Aug. 18, 1977

David McPherson
-Lecture sponsored by English Department, Arizona State University, Oct. 17, entitled "Jonson's Bawdy."

Harvene Richter
-Worked as SCRIPT CONSULTANT for the 7-hour N.B.C. mini-series (Feb. 19-21'78) The Awakening Land from January through October. Included some script writing and scene treatment plus special trip to Calif. in June for eleven days of consultation. (Screen credit as "historical consultant" because Script Writer's Guild would not allow script cons. to be used).

Fred Warner
-Advisor to New Mexico Humanities Council on projected film history of labor relations in New Mexico.

Mary Martha (Martha) Weigle

Peter White
-Undergraduate Honors Seminar, Spring, 1978, The Old Time Fiddlers of New Mexico.
-Presented proposal to Rocky Mountain Modern Language Association to establish Early American Literature Section at annual convention.
7. Continued

Hugh Wittemeyer
- Gave talk on George Eliot to English Department, University of Sheffield, England 3/77.
- Gave talk on Ezra Pound to American Studies Department, University of East Anglia, England 5/77.

Joseph B. Zavadil
- Writing Workshop at Los Alamos High School in March
- Talk, Grants Rotary Club in March
- Judge, Civitan Regional Essay Contest
- Judge, NM-Arizona Moose Essay Contest

8. NON-TEACHING UNIVERSITY SERVICE ETC.

Rudolfo Anaya
- Member Creative Writing Committee
- Advised on creative writing thesis (fiction)
- Faculty meetings
- Reviewed job applicants

James F. Barbour
- P&P Committee, English Department (spring semester 1977)

Ernest W. Baughman
- Member, Department of English Policy and Personnel Committee
- Member, Committee on American Studies

Edith Buchanan
- Graduate Committee, Department of English
- Committee on Graduate Examinations
- Interdepartmental Committee on Classics
- Advisor to Doctoral and Masters Candidates

Paul Davis
- Faculty Senate
- Undergraduate Academic Affairs Committee
- Faculty Ethics Committee
- Policy and Personnel Committee

William C. Dowling
- Board of Directors, UNM Faculty Club
- English Department Curriculum Committee
- Undergraduate Advisor to English Majors

Morris Eaves
- University: UNM Press Committee
- Faculty sponsor, Presidential Scholars
- Department of English: elected member, Policy & Personnel Committee

Michael Fischer
- Faculty Advisor, English Graduate Student Association

19
8. Continued

Robert E. Fleming
- Member of English Dept. Policy Committee
- American Studies Committee

Cheryl Hope Preach
- January 1977-May 1977, Freshman English Committee
- September 1977-- , P and P Committee

Gene Frumkin
- Chairman, D.H. Lawrence Fellowship Committee
- Member, English Dept. Creative Writing Committee
- Chairman, Editorial Advisory Board, new literary/arts magazine, UNM

Hamlin Hill
- University Press Committee
- Arts and Sciences Committee on Academic Programs, Tenure Committee, and Humanities Promotion Committee
- English Department Policy and Personnel Committee

Michael J. Hogan
- Acting Director of Freshman English, Semester II, 1977 and Semester I, 1978
- Freshman English Committee

Leon Howard
- Chairman, 2 Ph. D. Committees (dissertations completed)
- Member, 1 Ph. D. Committee

David M. Johnson
- Director of Creative Writing
- Director: The University of New Mexico Writers Workshop, Summer 1977.

David C. McPherson
- August-Sept., Director of Graduate Studies, English Department
- Member, Arts and Sciences Graduate Committee
- Member, Arts and Sciences Comp. Lit. Comm.

Ivan Malada
- MA Exam Grader, summer 1977
- Set Question for MA Exam, spring 1977
- Chairman, Dept. Library Committee
- Library Liaison, spring & fall
- Zimmerman Library serials cancellation Project, summer, 1977

Peter C. Page
- Freshman English Committee

Roy G. Pickett
- Assoc. Member of the Linguistics Dept.
- Committee Member for Linguistic Summer Institute Proposal
- American Studies Dissertation Committee
- Member of Student Standards and Grievance Committee
8. Continued

Ellen Spolsky
-M.A. advisor
-Computer Use Comm.
-Ph.D. Dissertation director
-M.A. Thesis director

James L. Thorson
-Sponsor of three Presidential Scholars

Mary M. Weigle
-University Press Committee
-Student Publications Board
-Advisory Board for new literary/arts magazine

Mary Bess Whidden
-M.A. advisor
-Health Sciences Board

Peter White
-Faculty Advisor to parolees from the New Mexico State Penitentiary now attending UNM

Hugh Witzmayer
-English Department Graduate Committee

Joseph B. Zavadil
-Department Chairman
-Faculty Senate
-Faculty Senate Executive Committee
-UNM Ambassadors

9. PUBLIC SERVICE

-Rudolfo Anaya
-Visits and talks to groups
-Attended two national CCLM meetings
-Attended two Rio Grande Writers meetings
-Awarded New Mexico Distinguished Public Service Award, April 1978

James P. Barbour
-Christ Lutheran Church member

Edith Buchanan
-Albuquerque Opera Guild

William C. Dowling
-Church activities
-Community Chest
-Boy Scouts

Hamlin Hill
-Lecture, Institute of Electrical and Electronic Engineers, Albuquerque, November 30

Ellen Spolsky
-Board of Directors, Ahira Day School
9. Continued

Mary M. Weigle
-Board of Directors, Santa Fe Historical Society
-Planning Committee, Southeast Neighborhood Association, Santa Fe

Hugh Witemeyer
-Member, Pacific Region Selection Committee for the Marshall Scholarship

Joseph B. Zavadil
-President, Bandelier Elementary School PTA

10. PERSONAL INFORMATION

Roy G. Pickett
-Son, Jon, graduated from UNM in May, receiving a BUS, with distinction and cum laude in General Studies.

Peter White
-Boy born October 10, 1977, Ethan John White
THE REPORT OF THE DEPARTMENT OF GEOGRAPHY

July 1, 1977 - June 30, 1978

Richard E. Murphy, Chairman

I. General Departmental Information

In view of the forthcoming renovation of Hodgin Hall as an alumni headquarters, plans are again under way for a move of the Geography Department to a permanent location nearer the center of campus. Consideration is being given once more to Bandalier East as a future departmental home. Meanwhile, Hodgin Hall is being used ever more effectively for the needs of the Geography Department.

The Department was fortunate in securing a considerable sum from the bond issue for equipment, particularly for the programs in cartography and air-photo interpretation, but also for improvements in the classroom and in the physical laboratory. In addition, the wall map collection has been greatly expanded.

Both climatology and remote sensing are receiving increased attention. A State Climatological Center is to be located in the Department for research and to provide materials to interested persons in the state and region. Direct use is being made of the remote sensing facilities of the Technology Application Center, now headed by a member of the Geography faculty.

Several new courses have been inaugurated, although several others have been dropped. For the first time, a course on Africa will be added to the schedule. A new member of the
staff is being recruited especially to take over and expand cartography. This, in turn, ties in with the additional equipment procured and with additional space provided for cartography on the lower level of Hodgin Hall.

A. Significant Achievements

Cartography has been given a great boost this year, and remote sensing and air photo interpretation have been further enhanced. Needed equipment has been added in several categories, and new courses contribute to the breadth of training available to students in the Department.

The cartography laboratory will be ready for full use in the fall. Room 105 on the lower level of Hodgin Hall has been added to the space available. This room connects with Room 106B, the cartography laboratory. Equipment has now been procured to provide for 20 students in the cartography laboratory. Specifically, there are now available 20 drafting tables and stools, 20 map file drawers, 20 drafting sets, and assorted other instruments and light tables for a well equipped cartography lab. The lab itself is in Room 106B. Room 106 gives direct access to the outside, thus meeting fire regulations. Room 105 has ample room for the students' map file drawers, the light tables, and the other equipment. A small wash room with a sink for cleaning pens connects Rooms 105 and 106B. Together these rooms occupy about half the space on the lower level of Hodgin Hall.

Equipment secured through the bond issue funds includes several major items for use in air photo interpretation. Individual stereoscopes for 20 students are being procured, a scanning
mirror stereoscope has been ordered, and a sketchmaster for converting photographic images to maps is being acquired.

The classroom has been much improved by the acquisition, through the bond issue funds, of chair desks with good sized working surfaces, especially helpful in classes where maps and air photographs are used. A new overhead projector and a new slide projector are being acquired which should greatly facilitate the lectures where such projected materials are shown.

In the physical geography laboratory a wall map rack has been installed. Five large laboratory tables and a slated outline globe with a movable floor stand have been acquired with funds from the bond issue.

The wall map collection has been greatly augmented. It was already substantial, but the bond issue funds enabled the department to fill many gaps. Furthermore, the Anthropology Department culled its collection and this surplus is being added to the collection of the Geography Department. All these maps are being duly catalogued and added to the already organized collection.

Room 301 has been converted into a graduate study room and library. There are now individual carrels for the graduate students and a reading room with table, chairs, drafting tables, and a small but growing library. The Sandia Corporation has contributed to this small library nucleus, and a reference catalogue to these materials has been kept up to date as additional books have been received.
A series of informal colloquia or "teas" has been inaugurated for the benefit of students and staff alike, and the Department has had a number of distinguished guests at these functions. Among the speakers were Professor Brian Berry of the Harvard Department of City and Regional Planning, who is the current President of the Association of American Geographers; Professor Karl Peltzer, who has just retired from many years as a professor of geography at Yale; Dr. Hans-Joachim Späth of the Institute of Geography at the University of Duisburg in Germany; and Dr. Helmut Knotig, Secretary-General of the International Society for Human Ecology in Vienna.

Only the signature of the Governor of the State remains to be affixed for the appointment of Professor Iven Bennett as State Climatologist. This in turn will implement an arrangement which has been worked out with the National Weather Service for the creation of a State Climatological Center in the Department for the servicing and utilization of records and other materials to be furnished by the Service.

A seminar in remote sensing has been added to the offerings of the department, supplementing the senior level course in this subject. Both these courses are taught by Associate Professor Stanley Morain. His appointment as Head of the Technology Application Center further enhances the close working relationship between this Department and TAC, and he is able to utilize the remote sensing materials of TAC directly in his teaching.

Another new course has been added to the departmental offerings by the new member of the Department, Assistant Professor Jerry L. Williams. He followed his fall semester course in Urban
Geography with a spring semester course in Land Use Practice and Planning which utilizes materials available locally from various agencies and in the field. In cooperation with a member of the History Department, he is compiling an Atlas of New Mexico.

Two other new courses have been approved and will be taught next year, and a course on Food Supply Systems was offered for the first time this year. Dr. Williams will offer a sophomore level regional course on Africa in the fall, drawing upon his years of experience there with the Peace Corps. An upper level course on Settlement in New Mexico will be taught by Professor Robert Campbell also in the fall. This past year a new course in Food Supply Systems was inaugurated by Associate Professor Elinore Barrett. Regionally, the new courses involve some shift in emphasis in the Department, but topically, or systematically, they involve a greater depth.

B. Plans and Recommendations

Immediate plans and recommendations call for the implementation of programs already well under way, and for the most part alluded to above; longer range plans and recommendations recently have been submitted in connection with the Self-Study Report which is being made by the entire University and which involves for each division or department a review of the past ten years and a projection into the future. Among the immediate plans and recommendations of the Geography Department are the expansion of cartography, the establishment of the Climatological Center, and the implementation of more sophomore level courses. Recommendations include the addition of graduate assistants and another staff member. Longer range plans and recommendations envision the
move of the Department to other quarters. Finally, the inauspicious of a Ph.D. program should be given serious consideration.

Attention has been called to the significant increase in support for cartography. The staff replacement being recruited for the fall will have this subject as a specialty. For the first time this coming year the Department will have available a well equipped cartographic laboratory, and the new staff member will be expected not only to teach the basic course in cartography but to add an advanced course with emphasis on thematic mapping and on new techniques, including computer mapping.

The State Climatological Center to be located in the Department is near to reality. The final approval of the State Governor for the appointment of Professor Iven Bennett as State Climatologist is expected. This will enable the Department to establish the Center to be located in Room 206. This room is close to the Departmental Office from whence the Center may be serviced, but the allocation of a graduate assistantship for this function is strongly recommended.

One of the cardinal needs of the Department is for several graduate assistants, not only to man the Climatological Center but for assistants in the cartography lab, the field course, in map reading and air photo interpretation, and in land use planning. Furthermore, these additional assistantships would furnish a core for a larger and more capable group of graduate students.

Very advantageous also would be the addition of another staff member to emphasize economic geography in general and the
economic utilization of arid areas in particular. Such a person would give the same breadth to our program in human geography which we now enjoy in physical geography.

In any case, we hope to strengthen our offerings at the sophomore level by the regular scheduling of the course in Economic Resources and the addition of a course in World Regions. The course in Economic Resources, Geography 263, needs to be presented as a basic course in world economic geography. A course in World Regions should be added to offer an introduction to the various specific regions of the world and as a logical sequel to the freshman courses in Physical Geography and Human Geography. These two courses should provide a logical set at the 200 level.

Farthur in the future, but already being considered in the architectural plans for the University, is the move of the Geography Department, as the Alumni Association takes over Hodgin Hall for its headquarters. Bandelier East is again under discussion as a possible future home for Geography, and that is the recommendation of the Department, providing that the needs for classroom, laboratory, carrel, and office space can adequately be provided. Some consideration should be given to utilizing a portion of Bandelier West if there is insufficient space in Bandelier East to encompass the present floor space utilized in Hodgin Hall, or if future expansion becomes advisable.

Also in the future should be considered the inauguration of a Ph.D. program. The faculty is more than adequate for such a development, the new equipment and facilities will provide a good physical base, the library is sufficient, particularly since the establishment of the map wing with its full time librarian, and the support facilities of the Technology Application Center are...
unique. New Mexico could thus join all the states which border it in having such a program at the state's major university.

C. Appointments to Staff

A new assistant professor is being recruited with primary responsibility for developing the program in cartography. Also requisite is a broad background in geography and an ability to handle introductory courses in Physical Geography or Human Geography. Although a final contract remains to be signed, the leading applicant is Mr. Alastair Shedden, who is finishing his doctorate at Berkeley. Mr. Shedden has excellent recommendations and considerable experience. His undergraduate work was at the University of Cape Town, South Africa, and his master's degree is from Berkeley. He has taught at both institutions and at San Francisco State University.

D. Separations from Staff

Assistant Professor Douglas H. Gordon is leaving us as of the end of the 1977-78 academic year.

II. Composite of Information Requested on Individual Biographical Supplements

Following are indicated the achievements, productivity, and other activities of the staff of the Geography Department for the calendar year 1977.

Advanced Study

Assistant Professor Jerry L. Williams, appointed to the staff starting the 1977-78 academic year, completed all requirements for the doctorate in the spring of 1977. He was awarded the Ph.D. in June from the University of Oregon. The subject of his dissertation was a Retail Landscape in Rural Zambia.
Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

Professor Iven Bennett took an automobile trip through the eastern United States, garnering material, including slides, for his course in the Regional Geography of North America. From January 2-13, Professor Rodman Snead investigated ten arcuate bays along the northwestern coast of Jamaica under a grant from the Research Allocations Committee. In August he visited several coastal locations in the southwestern United States, collecting data for his Photographic Atlas of Coastal Landforms.

New Scholastic honors, fellowships, etc. - None

Publications


With T.K. Budge and M. E. White, "Vegetation and Land Use in New Mexico," Resource Map #8, 1:1,000,000, 24x36 inches, color, New Mexico Bureau of Mines and Mineral Resources, 1977.


Other research projects or creative work in progress

Associate Professor Elinore M. Barrett completed her reading of micro-filmed documents related to her study of copper mining in Colonial Mexico. Her article on "Indian Community Hospitals of Colonial Michoacán" is in press for Geoscience and Man.
Professor Iven V. Bennett prepared and submitted to the University a proposal for the establishment of an Office of State Climatologist for New Mexico.

Professor Robert D. Campbell continued his development of a systems concept of culture.


Professor Richard E. Murphy continued his work on the classification of political units and of ethnic groups in relation thereto. He also made corrections in his manuscript of Physical Geography: An Introductory Survey for Wiley.

Snead co-authored, with Associate Professor Stanley A. Morain of this Department, *Satellite Views of World Physical Features and Landforms* which consists of 120 space photographs and captions in press by Harper and Row. Professor Snead has an article entitled "Geomorphic History of the Mundigak Region of Afghanistan" in press by the *Afghanistan Journal*. He has co-authored, with Richard Erickson, "Morphological Changes in the Balakot Region of Pakistan," which has been sent for publication to Professor George F. Dales, archaeologist in the Dept. of Near Eastern Studies at the University of California, Berkeley. Professor Snead's article on "Geomorphological Changes in the Seistan Basin, Iran-Afghanistan" has been accepted for publication in the *Zeitschrift für Geomorphologie*. Another article, "Modelling Ephemeral Stream Channel Development in a Semiarid Upland Environment" is expected to be published in the *Revue de Geomorphologie Dynamique*. Professor Snead is preparing a review of M.P. Petrov's *Deserts of the World* for publication in the *Annals of the Association of American Geographers* in Sept., 1978. He is co-authoring with Philip Durgin an article on "The Physical Geography of the Soghun Valley, Southeastern Iran," which is being submitted to the *Geographical Review*. Also Professor Snead is preparing an article on the "Geomorphic History of the Kandahar Region of Afghanistan."

Activities in learned and professional societies

The Geography Department was well represented at the annual meeting of the Association of American Geographers in April in Salt Lake City. Those in attendance were Professors Bennett and Snead, Associate Professors Barrett and Morain, and Assistant Professor Williams. Dr. Barrett chaired a session on Surveys, Land Evaluation, and Occupance. She submitted a summary of the session for th
Historical Geography News Letter. Dr. Bennett presented a paper on "Problems in Utilizing Solar Radiation Data." Dr. Morain served on the Remote Sensing Committee of the Association. Dr. Williams presented a paper on "Problems of Retailing in a Declining Rural Market of Zambia."

Other professional meetings and papers involved Professors Campbell and Snead and Associate Professor Morain. Dr. Campbell and Dr. Snead presented papers at the annual meeting of the Western Social Sciences Association in April in Denver. Dr. Campbell's paper was on "Culture Systems as Organizing Concepts in Geographic Studies," and Dr. Snead's paper was entitled "Geomorphic Evidence for Inner Shorelines in the Las Bela Region of Pakistan." Dr. Morain attended the meeting of the New Mexico Association of Surveyors and Mappers in Las Cruces and the annual meeting of the American Society of Photogrammetry in Washington, D.C.

Dr. Morain holds a number of offices in the American Society of Photogrammetry. He is President of the Rio Grande Chapter, Chairman of the textbook Review Committee for the national organization, and First Deputy Chairman of the Education and Interpretation Skills Committee of the Remote Sensing and Interpretation Division. He is Technical Program Chairman for the Fall Convention to be held in October, 1978, here in Albuquerque. Dr. Morain also serves as a member of the New Mexico State Land-Use Advisory Committee.

Other professional activities

Professor Iver Bennett serves as a consultant to the New Mexico Solar Energy Project. Also, he serves informally as a
consultant to numerous individuals, both in and outside the University, on matters pertaining to weather and climate. This latter has been an additional rationale for formal recognition of this function by his appointment as State Climatologist.

Associate Professor Stanley Morain serves as a consultant to the University Space Research Association - Peer Review Support Office. Also, he is a book reviewer for Harper and Row.

Professor Richard Murphy gave a talk on "How Maps are Made" to the 3rd and 4th grades of Alameda Elementary School on March 25. On September 6 he gave a lecture on the U.S.S.R. to a class in Theater Arts studying Chekhov, and on November 22 he lectured on "Resources and Environment" to a class in Engineering called Energy and Environment.

**Non-teaching University service**

Associate Professor Elinore Barrett served as a member of the Research Allocations Committee, starting in September, 1977. She was a member of the Associate Provost's Tenure Advisory Committee through May, 1977.

Professor Iven Bennett served on the Social Science Advisory Promotion Committee of the College of Arts and Sciences.

Professor Robert Campbell served as Chairman of the IARS Faculty Advisory Committee. He also served as a member of three other committees including the Committee on Interdisciplinary Studies, the Provost's Committee on the Center for Leisure and Recreation, and the Faculty and Staff Benefits Committee.

Professor Richard Murphy served as Chairman of the Geography Department and as faculty advisor to geography majors and
graduate students. He also continued as a member of the Russian Studies Committee.

Professor Rodman Snead continued to serve as faculty sponsor of Gamma Theta Upsilon, students' international honorary geographical society. He continued also as Danforth Liaison Officer for the University. He served as faculty advisor to two Presidential Scholars. Also, he served as representative of the Geography Department on the Graduate Committee (Grievance Policy Subcommittee) of the College of Arts and Sciences.

All the staff serve as advisors to students, and several members of the department serve as thesis advisors.

Public service

Assistant Professor Jerry Williams served as a volunteer teacher of LaMaze birth education with the Albuquerque Childbirth Education Association.

Personal Information

Assistant Professor Jerry and Mrs. Williams had a second child, Brian Jeremy, born on February 14, 1977.
To: Nathaniel Wollman, Dean, Arts & Sciences
From: Richard E. Murphy, Chairman, Geography Department
Subject: Information About A&S Students as Supplement to Annual Report

We have tried unsuccessfully to contact by telephone the seven students who were graduated with majors in Geography at the May Commencement and the two majors and the two master's students who were graduated at the December Commencement. We could try to contact them by mail, but more to the point is the establishment of some sort of regular procedure to garner information about the plans of graduating students for future use.

With the change from regular advisement and controlled registration to the amorphous situation which exists now, we lost all regular contact with majors and even, to a degree, with graduate students. The only contact which is specific with majors is at the time the student brings his or her Application for Degree. At that time we anticipate giving to each student a form to fill out about future plans, with the hope that the student will let us know such plans. As for our Master's degree students, we would give each one such a form at the time of the oral examination.

If it is necessary to go to further ends to obtain data on the students of the past year, we will contact them by mail with requests that the letters be forwarded if necessary. Please let us know if we should follow such a procedure.

In a larger sense, the matter touches on the whole problem of advisement and regular contact with majors. It is to be hoped that some regular procedure can be established in connection with registration each semester which would let each department know who the current majors are and even who may be intending to major in the department. Ultimately I hope that we can return to a procedure of regular advisement and registration just before the beginning of each term and that no student will be permitted to sign up for courses until his or her program of studies has been approved by an advisor. This procedure also would avoid the problems which arise from pre-registration which is so far in advance of the beginning of each term as to result in discrepancies between preliminary schedules and the final schedule which actually crystallizes just before the beginning of each term.
1. General Departmental Information

A. Significant Achievements

The Department of Geology consists of 15 full-time faculty, 5 part-time faculty, 75 graduate students, and 137 undergraduate majors (note: an additional 75 undergraduates are listed as planning to major in geology).

During 1977 the department granted 24 bachelor's degrees, 13 master's degrees, and 2 Ph.D. degrees. This compares with 21, 7 and 3 degrees respectively for the previous year.

This past year has been excellent for employment of geology majors. Numerous industries as well as Federal and State laboratories have been vigorously interviewing our students and our placement is 100 percent of B.S., M.S. and Ph.D. recipients; further, numerous summer jobs are available for both undergraduate and graduate students. As in previous years, we are unable to supply the number of geologists in demand from our department.

Many of our B.S. and M.S. recipients receive offers from such well established institutions of higher learning as MIT, Columbia, SUNY-Albany, VPI, UCLA, UC-Berkeley, and Stanford. This is a reflection of the strength of our overall program, and we are attempting to make our program even stronger by continuing to insist on quality of combined teaching and research on the part of the faculty and a thorough understanding of the fundamentals of geology for our students. Our admissions
committee has reviewed the files of some 100 applicants for Graduate School and recommended admission for approximately 35 students for Fall 1978. Of these, we will be able to offer financial assistance to only seven to ten students, thus we expect approximately twenty new students for the Fall 1978 semester. If our projections are correct, then for the 1978-79 Academic Year we will have a graduate enrollment of 65 to 70, a decrease of 5 to 10. This is in keeping with our policy of trying to reduce the student/faculty ratio to about four (note: five years ago geology listed nearly 90 graduate students with a faculty of only 13). We feel that a level of about 60 students is best suited for our size faculty and we certainly do not plan to lower standards to accept marginal students. In this manner we continue to make offers of financial assistance to some of the best students nationwide and our graduate program continues to be increasingly recognized both in the U.S. and abroad.

During the past year the Geology Department managed research grants and contracts totalling $2,550,000. Much of this money is used for purchase of equipment used both for research and teaching and many of our students are supported as RA's by research funds. From release time and other departmental sources we endeavor to provide financial support to all of our graduate as well as deserving undergraduate students.

The Geology Faculty continues to improve in all areas. Our 14 full-time faculty for the past year published some 177 papers, including 15 percent co- or solely-authored by graduate students.

The Geology Department continued its participation in the programs of National and Local organizations. Geology Faculty played a major
role in the planning and implementation of the Fall and Spring meetings and field trips of the New Mexico Geological Society. Several UNM-Geology Faculty presented lectures and in other ways helped the Albuquerque Geological Society (a branch of the American Association of Petroleum Geologists). Some faculty of the Geology Department assisted in the meetings of the American Association for the Advancement of Science-Southwestern and Rocky Mountain Section and of the New Mexico Institute of Chemists as well as the UNM Chapter of the Sigma Xi. This past year also saw even greater expansion of collaborative efforts between UNM-Geology and the Los Alamos Scientific Laboratory, Sandia Laboratories, Kirtland AFB, the Bureau of Land Management, the National Park Service, and with Industry. Several of our faculty continue their service on State energy agencies and/or review boards.

The following scientists (with their respective affiliations) visited the Geology Department to give talks and to consult with faculty and students:

1. Eugene A. Swinn, Program Chief, U.S. Geological Survey Oil and Gas Branch Sedimentation Program; Distinguished AAPG Lecturer
2. John M. Bird, Professor of Geology, Cornell University, Distinguished AAPG Lecturer
3. Donald B. McIntyre, Professor of Geology, Pomona College, Distinguished AAPG Lecturer
4. James M. Coleman, Director, Coastal Studies Institute, Louisiana State University, Distinguished AAPG Lecturer
5. Clyde H. Moore, Jr., Director, Applied Carbonate Research Group, Department of Geology, Louisiana State University, Distinguished AAPG Lecturer
6. W. G. Ernst, Professor, Department of Geology, UCLA; Distinguished Sandia-UNM Colloquium Speaker
7. Celso B. Gomes, Instituto de Geosciencias, Univ. Sao Paulo, Brazil
11. John Richelberger, Los Alamos Scientific Laboratory
12. John W. Hawley, New Mexico Bureau of Mines and Mineral Resources
13. Dennis W. Powers, Sandia Laboratories, Albuquerque
15. Robert Raymond, Los Alamos Scientific Laboratory
16. David Joy, Bell Laboratories, Murray Hill, New Jersey
17. Glen Swenumson, Continental Oil Company
18. J. C. Mercier, SUNY-Stony Brook, New York
19. K. Lorenz, Johannes Gutenberg, University of Mainz, Germany
20. Fred Oglesby, Cities Service, Tulsa, Oklahoma
22. Eric A. Anderson, Shell Oil Co., Dallas, Texas
23. Clayton E. Olsen, Los Alamos Scientific Laboratory
24. James Hawkins, Scripps Inst. Oceanography, La Jolla, California
25. Harry Y. McSween, Jr., Department of Geology, University of Tennessee
26. Wolfgang Wawersik, Sandia Laboratories, Albuquerque
29. Dr. Joseph Smyth, Los Alamos Scientific Laboratory
30. Robert Krogh, Los Alamos Scientific Laboratory

The following graduate students received financial support from the source(s) noted:

1. M. Ander, RA, ERB
2. J. Berkley, RA, NASA
3. R. Della Valle, RA, DOE/BFEC
4. T. Bornhorst, RA, ERB
5. E. Erb, RA, ERB
6. J. Gooding, RA, NASA
7. H. Holcombe, RA, ERB
8. R. Lewis, RA, ERB
9. W. Mansker, RA, NASA
10. H. Planner, RA, Sandia Labs
11. W. Riese, RA, DOE/BFEC
12. K. Affholter, RA, Battelle Pac. NW Labs
13. S. Anderson, TA (0.5 FTE), RA (0.5 FTE), NPS
14. J. Aubele, RA, USGS, ERB
15. J. Bruneau, RA, DOE/BFEC
16. J. Connolly, TA
17. C. Cook, TA
18. K. Emanuel, TA (0.5 FTE), RA (0.5 FTE), ERB
19. M. Fulp, RA, UNM-Geology
20. T. Gorham, TA
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<tr>
<td>21.</td>
<td>R. Hicks, RA, ERB</td>
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<td>22.</td>
<td>G. Huss, RA, NASA</td>
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<td>23.</td>
<td>P. Hutchinson, TA</td>
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<td>24.</td>
<td>T. Kasten, TA (0.5 FTE), RA (0.5 FTE), Los Alamos Sci. Lab.</td>
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<td>25.</td>
<td>K. Kietzke, RA, Sandia Labs</td>
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<td>26.</td>
<td>D. Krier, RA (0.5 FTE), USGS, ERB</td>
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<td>27.</td>
<td>R. Lawrence, RA (0.5 FTE), UNM-Geology, Sandia Labs</td>
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<td>28.</td>
<td>G. Lux, RA, NASA</td>
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<td>29.</td>
<td>T. McCormick, TA</td>
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<td>M. Merrick, TA</td>
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<td>31.</td>
<td>R. Miller, RA (0.5 FTE), UNM-Geology, DOE/BFEC</td>
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<td>32.</td>
<td>C. Nelson, RA, BLM</td>
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<td>33.</td>
<td>R. Northrop, RA, UNM-Geology, ERB</td>
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<td>34.</td>
<td>C. Olsen, Los Alamos Sci. Lab (full time)</td>
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<td>35.</td>
<td>R. Padgett, TA</td>
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<td>36.</td>
<td>M. Parchman, TA</td>
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<td>37.</td>
<td>J. Potter, RA (0.25 FTE), Los Alamos Sci. Lab</td>
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<td>38.</td>
<td>R. Quintanar, RA, AGI, USGS</td>
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<td>39.</td>
<td>J. Register, RA, Sandia Labs</td>
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<td>40.</td>
<td>M. Register, RA, Sandia Labs</td>
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<td>41.</td>
<td>D. Reiter, TA</td>
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<td>42.</td>
<td>D. Rhodes, RA, Sandia Labs</td>
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<td>43.</td>
<td>J. Schultz, RA (0.5 FTE), ERB</td>
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<td>44.</td>
<td>G. Smith, RA (0.5 FTE), UNM-Geology</td>
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<td>45.</td>
<td>M. Steinpress, TA</td>
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46. C. Sullivan, RA, ERB
47. S. Wentworth, RA, NASA
48. R. Widdicombe, RA, Sandia Labs
49. C. Zimmerman, TA (0.5 FTE), RA (0.5 FTE) UNM-Geology
50. M. Vazzana, TA
51. S. Griffiths, RA, Sandia Labs
52. W. White, RA, NPS
53. A. Rolph, RA, UNM-Geology
54. J. Place, Gulf Minerals
56. D. Jones, Freeport Exploration
57. S. Ristorcelli, Western Nuc.
58. P. Longmire, RA, Los Alamos Sci. Lab
59. R. Warren, RA, USGS, ERB
60. A. Skeryanc, RA, Sandia Labs

Many of our Undergraduate and Graduate geology majors work on research projects and are paid on an hourly basis. In addition, some $9,000 in scholarships was awarded as follows:

1. Leonard Scholarships (for undergraduates)
   - Bryan Chakoumakos $820
   - Paul Johnson 820
   - Eric Peterson 820
   - Todd Pink 820
   - Bruce Reid 820
   - Robert Gonzales 300
2. Combined Scholarships from Tenneco, Sun Oil, ARCO

Greg Smith $700
Kathleen Affholter 200
James Gooding 300
Cassandra Hudson 100
Terry Kasten 200
Thomas Lehman 300
Robert Merker 100
Raphael Padgett 200
Doris Rhodes 300
Jerry Schultz 300
Martin Steinpress 300
Richard Warren 300
Charles Zimmerman 300

3. Albuquerque Gem and Mineral Club Scholarships

Bryan Chakoumakos $128
James Gooding 128

4. Kelley Award (for outstanding field geology)

Thomas Lehman $100

5. Scholarships to attend the NMGS Fall Field Trip

Robert Gonzalez and Martin Steinpress, Los Alamos Geol. Soc.
Jerry Schultz and Jim Connolly, N.M.G.S.
Rich Della Valle, Anthony Skeranc, Peter Hutchinson, UNM-Geology
6. New Mexico Geological Society Scholarships

<table>
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<th>Name</th>
<th>Amount</th>
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<tr>
<td>James Connolly</td>
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<tr>
<td>Duncan Edwards</td>
<td>170</td>
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<tr>
<td>Michael Fulp</td>
<td>200</td>
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<tr>
<td>Mark Parchman</td>
<td>220</td>
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<tr>
<td>Martin Steinpress</td>
<td>150</td>
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<tr>
<td>Charles Zimmerman</td>
<td>230</td>
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</tbody>
</table>

The Geology Museum and Meteorite Museum were visited by approximately 5,500 school children as well as by smaller groups of Cub and Boy Scouts, the Albuquerque Gem and Mineral Club, and others.

The Department's role in providing manpower to the States' mineral and energy and related needs was intensified during the past year. Special seminar courses in Coal Geology, Environmental Geology, Radioactive Waste Disposal, and Uranium Geology were offered. Plans are well underway to fund a position for a distinguished Petroleum Geologist; this is being handled by a non-profit organization, Energy Exploration Education, Inc., Frank D. Gorham, President, with UNM-Geology represented at present by Profs. Brookins and Woodward. Service to the greater Albuquerque area was maintained by the offering of courses through the Division of Continuing Education and summer school.

B. Significant Plans and Recommendations

Space vacated by the U.S. Geological Survey-Hydrology Branch in Northrop Hall (June 1976) has still not been renovated due to lack of funds. Some renovation will be undertaken during summer 1978. Space
continues to be a major problem and the Geology Department can easily justify use of all space in Northrop Hall (note: several office complexes are used by non-Geology groups on the second floor).

The Geology Department has continued to monitor and provide upkeep on the Harding Pegmatite which was donated to UNM by Dr. Arthur Montgomery. Several hundred students, rockhounds, geologists, etc. visited the famous pegmatite during the past year. Profs. Ewing, Brookins, Landis, Callender and their students have initiated research projects on the mine property. Plans to have the land transferred to UNM by an Act of Congress are pending.

C. Staff Information

Several well known geologists served as adjunct professors for the 1977-78 academic year. Mr. Ed Beaumont and Mr. John Shomaker offered a course in Coal Geology and Mr. Harold James offered a course in Environmental Geology; both courses were very well received. The Department of Geology is fortunate to have individuals of high caliber such as Beaumont, Shomaker and James available for the offering of such courses.

Ms. Bernice Swenson joined the staff as a part-time draftsman this past year. Mr. Kevin McNamara replaced Mr. Todd Pink as assistant thin section preparator to Mr. Jerry Gomez.

Dr. Kirtley F. Mather, Emeritus Professor of Geology of Harvard University and Adjunct Professor of Geology at UNM for the past few years, passed away in May 1978. Dr. Mather's contributions to the Geologic Profession and to Mankind are Internationally known and his passing leaves a void impossible to fill.
COMPARISON OF UNM GEOLOGY DEPARTMENT WITH
GEOSCIENCE DEPT. OF SISTER INSTITUTIONS

In Spring 1978 a Questionnaire (see Appendix) was sent to some seventy geoscience departments from other academic institutions. The purpose of this questionnaire was severalfold. An intent to gather data concerning quality (prerequisites, funding, publications), aspects of quantity (enrollment, total number of courses offered, faculty) and salaries was made. Questionnaires were sent to geology departments of similar size; thus many of the top twenty-one departments of the Roose and Anderson report (op. cit.) were not included because of their far greater size. It is our opinion that, based on various criteria such as number of faculty, advertisement of programs, publications, etc., that a more meaningful comparison could be made between the Geology Department at UNM and the geoscience departments of the seventy institutions selected. Of these fifty-four responded (Appendix). Below are some of the significant findings:
I. Total Number of Courses and Enrollments

A) Number of courses X (n=54) UNM-Geology

<table>
<thead>
<tr>
<th>Level</th>
<th>UNM</th>
<th>Lower Division</th>
<th>Upper Division</th>
<th>Graduate</th>
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<tbody>
<tr>
<td>Lower</td>
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<td>Upper</td>
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<tr>
<td>Graduate</td>
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B) Enrollment (X=49)

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<tr>
<th>Level</th>
<th>UNM</th>
<th>Lower Division</th>
<th>Upper Division</th>
<th>Graduate</th>
</tr>
</thead>
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<tr>
<td>Lower</td>
<td>1200</td>
<td>800</td>
<td>230</td>
<td>72</td>
</tr>
<tr>
<td>Upper</td>
<td>380</td>
<td></td>
<td></td>
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<tr>
<td>Graduate</td>
<td>132</td>
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C) Full time faculty (X=13) 15

The above data clearly show that UNM is significantly above the average in enrollment at all levels and that total number of courses offered per semester is at the average for the other institutions at the Lower Division and Graduate Levels and above.

II. Teaching Commitment at the Freshman-Sophomore Level

We feel that in as much as possible that all faculty should teach at least one course per year at the freshman and/or sophomore level; and 14 of our 15 faculty do so* (Dr. Keil, Director of the Institute of Meteoritics, is exempt from this policy due to his major administrative, research and graduate-level teaching duties. Dr. Brookins teaches a 100-level course during the summer session.). We feel that in this fashion we stay fresh at all levels of geology, are in a position to attract students to geology, and that the lower division load is thus evenly distributed.

To our surprise we found that this policy is followed in only 22 of 52 reporting institutions.

12
III. Prerequisites

The summary of UNM-Geology Prerequisites and the average for the reporting outside institutions is as follows:

i) 2 semesters general chemistry 53/53
ii) 1 semester physical chemistry 5/53
iii) 3 semesters calculus 27/53
iv) 3 semesters physics 21/53
v) 1 semester statistics 17/53
vi) 1 semester computer science 9/53

It is extremely interesting to note that so few institutions require physical chemistry and computer science; it is surprising in this day and age of recognition of other sciences in support of the geosciences to note only 27, 21 and 17 (all of 53) institutions require as much physics, calculus and statistics as does the UNM-Geology Department. These data, again, reflect the strength of our program.

IV. Contracts and Grants and Publications

Many institutions did not report data for outside funding, publication information, and meaningful averages are therefore not available. What is noteworthy are the following observations:

A) Only two institutions (VPI, U. Hawaii) exceed UNM-Geology in total dollar amount of contracts and grants. The number of faculty with outside support ratioed to total faculty for UNM-Geology and these two institutions are:

UNM: 14/15
VPI: 18/22
UH: 13/18
VPI and UH are active and widely recognized departments; these data show that UNM-Geology compares favorably with them.

B) For those institutions reporting publication data, only the Univ. Michigan reports a total publication (152) record close to UNM (176). Yet the publications/faculty member/year for Michigan is 4 while the same ratio for UNM-Geology is 11.7. Of note is that all other institutions reporting in this area are below 4/yr. and most below 2.5/yr. It is safe to state that UNM-Geology has an enviable record of publications which reflect its strong research program. Of further note is that for 1976 twelve percent of UNM-Geology publications were authored or coauthored by Graduate Students.

V. Geology as a prerequisite for biology, chemistry and physics majors is only a reality at four of the 54 institutions contacted yet 80 percent of the geoscience departments feel that geology should be a prerequisite for other science fields. In this day and age of energy, environment and resource evaluation and assessment it is the opinion of the UNM Geology Faculty that majors in other sciences should take at least one required course in geology.

VI. Salary Information

The data for salaries show that at all levels UNM Geology faculty are below the average for those schools commonly ranked on par with UNM (i.e., Nos. 4, 6, 7, 9, 14, 15, 17, 18, 19, 22, 23, 24, 25, 26, 27, 29, 30, 34, 41, 53-salary data not available for all these institutions). The UNM Administration is fully aware of this inequity situation and has already (as of 4-15-78) taken some steps to remedy this situation. The Geology Department views this as a most positive step in rewarding excellence by merit pay increase; further, this should be an added incentive to strive for even greater goals.
VII. Final Comments on Questionnaire

It is very apparent that UNM-Geology is a quality department when compared with the institutions from which information was obtained. UNM-Geology prides itself on quality teaching and research and these factors are reflected in the tabulation of data. One must also remember that future plans call for formal programs with the Los Alamos Scientific Laboratory and with Sandia Laboratories, thus allowing UNM graduate (and some undergraduates) to make use of facilities at these well known laboratories and to work with distinguished scientists in their geoscience related divisions. In approximately two years we fully expect to formally advertise this information. At that time we will then test ourselves against all the top 54 institutions listed in the Roose and Anderson report (op. cit.).
Boston College
Bowling Green State University
Brooklyn College
California State - Fullerton
Case Western Reserve
Colorado School of Mines
Colorado University - Boulder
Cornell University
Florida State
Hofstra University (New York)
Indiana University
Kent State University
Lehigh University
Louisiana State University
Mackay School of Mines (University of Nevada)
Oklahoma State University
Oregon State University
Queens College - CUNY
Rensselaer Polytechnic Institute
San Diego State
San Jose State
South Dakota School of Mines
SUNY at Buffalo
Syracuse University
University of Akron
University of California, Davis
University of California, Riverside
University of Cincinnati
University of Connecticut
University of Florida
University of Georgia - Athens
University of Hawaii
University of Houston
University of Idaho
University of Iowa
University of Kansas
University of Kentucky
University of Miami - Ohio
University of Michigan
University of Minnesota, Minneapolis
University of Missouri - Columbia
University of Montana
University of North Dakota
University of Oregon
University of Pennsylvania
University of Pittsburgh
University of South Carolina
University of Tulsa
University of Virginia
University of Washington
University of Wisconsin - Madison
Virginia Polytechnic Institute and State University
Washington State University
West Virginia University
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<th>No. of Faculty</th>
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<td>9 10 16 20 21</td>
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<td></td>
<td>(1017) (640)</td>
<td>(1000) (1651)</td>
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<td></td>
<td>(500) (1200)</td>
<td>(800) (374)</td>
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<td></td>
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<td>Courses/Semester</td>
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<td>(enrollment)</td>
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<td>(60) (60)</td>
<td>(60) (463)</td>
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<td>(150) (250)</td>
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<tr>
<td>(enrollment)</td>
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<td>(60) (50)</td>
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<td></td>
<td>(75) (101)</td>
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<td>(130) (100)</td>
<td>(30) (34)</td>
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<td>d) 3 Semesters Phys.</td>
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<td>- 1.6 3 4</td>
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<td>23 22.2 25 30</td>
</tr>
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<td>19.7 16 20 20 18.3 20.8</td>
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<td>14 14 13 20</td>
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<td>F F F F</td>
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<td>29 25.4 23.5 32 21.1 24 26 21 - 26 32.5 24.3 23 32.1 22.6+</td>
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<td>- - N - - Y N N - Y Y N Y -</td>
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<td>(1200)</td>
<td>(690)</td>
<td>(900)</td>
<td>(469)</td>
<td>(781)</td>
<td>(546)</td>
<td>(440)</td>
<td>-</td>
<td>(140)</td>
<td>(582)</td>
<td>(963)</td>
<td>(300)</td>
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<td>(900)</td>
<td>(100)</td>
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<td>(130)</td>
<td>-</td>
<td>(90)</td>
<td>(119)</td>
<td>(219)</td>
<td>(300)</td>
<td>(80)</td>
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<td>(70)</td>
<td>(30)</td>
<td>(72)</td>
<td>(84)</td>
<td>(95)</td>
<td>-</td>
<td>(38)</td>
<td>(39)</td>
<td>(196)</td>
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<td>Course/yr?</td>
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<td>5. Prerequisites:</td>
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<td>7. Total $ amt. Grants/Contracts</td>
<td>900 200 560 0 - 100 735.3</td>
<td>2400</td>
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<td>8. No. Faculty with outside support.</td>
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<td>9. Total Dept. Pubs./yr.</td>
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<td>10. Pubs./Faculty/yr.</td>
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<td>11. Salaries (in $\times 10^3$)</td>
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<td>a) Full Professors</td>
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<td>b) Assoc. Professors</td>
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<td>c) Asst. Professors</td>
<td>12. How is Geology viewed by Admin?</td>
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<td>13. Is Geology a Prerequisite for Biol., Chem.,</td>
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<td>Physics Majors?</td>
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<td>If not, should it be?</td>
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COOPERATIVE PROGRAMS WITH OTHER UNM DEPARTMENTS AND WITH FEDERAL (AND FEDERALLY SUPPORTED) LABORATORIES

The personnel of the Geology Department cooperate on formal and informal programs at UNM. Formal programs exist between Geology and the Department of Civil Engineering and plans are underway to implement a formal program with the Department of Chemical and Nuclear Engineering. The program with Civil Engineering, in part integrated with the Technology Applications Center, is designed to train students in problems of urban geology and other aspects of environmental geology including photogeologic interpretation. The intended program with Chemical and Nuclear Engineering is an outgrowth of informal cooperative and collaborative efforts between the two departments, with special emphasis on radioactive waste disposal and the natural radiation environment.

Dr. William Gross, Dean, College of Engineering, and Geology (D. Brookins) are in the planning stage for cooperative programs in petroleum engineering and engineering geology. The first of these programs will integrate the efforts of an off-campus, non-profit group; Energy Exploration Education, Inc. whose mission is to solicit funding for the continued assurance of course offerings in petroleum geology and related fields. Mr. Frank D. Gorham, President of Questa Petroleum and an Adjunct Geology Faculty Member, is President of EEEI and Geology is represented by Professors Brookins and Woodward. To date some $26,000 has been raised to be used to attract a distinguished petroleum geologist to UNM to offer courses, advise students, and integrate efforts with the College of Engineering. No individual has yet been appointed, however, for the 1978-79 academic year.

Informal cooperation with other UNM departments lies primarily in joint research efforts. Geology has ongoing research efforts with personnel from the Departments of Anthropology, Biology and Chemistry.
Similarly, ongoing research programs between UNM-Geology and Eastern New Mexico University, the New Mexico Institute of Mining and Metallurgy, and the New Mexico State University have proven to be both beneficial to the State and Institutions as well as to strengthen already good ties between UNM and sister institutions.

Cooperative research programs with the Los Alamos Scientific Laboratory (LASL) and the Sandia Laboratories, Albuquerque (SLA) are already in existence. These programs include specific projects involving several aspects of radioactive waste disposal (i.e. site selection, feasibility studies, geochemical transport, canister materials research, isotopic studies, natural fission reactors), rock mechanics, geothermal energy (site evaluation, geochemistry, hot water-rock interactions), analytical methods (instrumental and delayed neutron activation analysis, x-ray fluorescence, scanning electron microscopy), and basic research.

Further, several Geology faculty have taught at LASL through the LASL-UNM Graduate Center (Professors Brookins, Ewing, Landis, Taylor, Callender, Jiracek) and several LASL Personnel have/will teach in joint programs in 1979-1980. Drs. Robert Riecker, G-6 Group Leader, and Ronald Gooley, Assoc. Group Leader, G-6, and D. Brookins, UNM, are presently finalizing plans for new and continued teaching and research programs between UNM and LASL. Similarly, UNM-SLA joint teaching-research programs are anticipated by 1979-1980; work with SLA has to date involved primarily research although several UNM-Geology personnel have taught remedial geology courses at SLA and several SLA personnel have presented materials in Geology Departmental colloquia and seminars.

The UNM Geology is in a somewhat unique position relative to other geoscience departments due to these associations with LASL and SLA. Joint teaching and research benefit UNM and either LASL and/or SLA in that UNM
personnel. The joint programs have reached the point where UNM input in building and calibrating equipment is not only a valuable training experience it allows LASL or SLA to more expeditiously carry out their missions. Finally, when one remembers that the combined geoscientist personnel at LASL and SLA number some 150 then this, in turn, offers to UNM students and faculty a chance for very high quality training and research which otherwise would not be possible. As an additional point, the U.S.D.O.E. and other agencies are stressing the need for closer ties between academic institutions and federally supported laboratories; the UNM-LASL-SLA combined efforts represent a strong step in meeting this need.
II. Composite of Individual Biographical Supplement

1. Advanced Study


2. Travels


Jonathan F. Callender: Scandinavia, particularly Norway, to attend international conference on world rifts and to do field work; Seattle, Washington, to present paper to Geological Society of America national meeting; Myrtle Beach, S.C., to attend Sigma Xi national meeting; Pasadena, Calif., to attend geology symposium at Caltech; field work in California Coast Ranges, Brooks Range, Alaska, and northern New Mexico; field trip for UNM students to southern and central California; consulting, Los Alamos, NM, and Los Angeles, California; and New Mexico Geol. Society field conference, northwestern New Mexico and southwestern Colorado.

Wolfgang E. Elston: Visiting lecturer, UNM German Summer School at Taos, June 21-22, 1977. Lectures (in German) on "Alfred Wegener's Kontinentalverschiebungstheorie" (Alfred Wegener's Theory of Continental
Drift) and "Karl May, der deutsche Schriftsteller des Wilden Westens" (Karl May, German author of the Wild West) and geologic field trips; geologic field work in Animas Mountains, southwestern New Mexico, January 1977, Peloncillo Mountains, June-July 1977; travel to Denmark, Norway, Great Britain, July-August 1977.

Rodney C. Ewing: Research appointment by Northwest College and University Association for Science to Battelle Laboratories, Richland, Washington (May 15-June 30); travel in Germany, Switzerland, France, Belgium, Holland and England (July 4-Aug. 8).

Raymond V. Ingersoll: Travel to central and northern California for field work, May-June; travel throughout northern New Mexico for field work, summer.

Klaus Keil:


17. Seattle, Washington. Attended Geological Society of America Annual Meeting and served as Citation Speaker to award the Roebling Medal of the Mineralogical Society of America to Prof. R. Castaing, University of Paris at Orsay, France, Nov. 7-8, 1977.


Albert M. Kudo: Travel to Toronto, Ontario, Canada; San Francisco, CA; Denver, CO; Los Angeles, CA.


3. New scholastic honors, fellowships, etc.

Jonathan F. Callender: Presidential Commendation for Teaching; promoted to Associate Professor.

Wolfgang E. Elston: Elected to Society of Economic Geologists.


Raymond V. Ingersoll: Elected to membership in Sigma Xi.

Klaus Keil:
1. Secretary, Commission on Meteorites, International Union of Sciences.
2. Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association.
3. Secretary, International Association for Geochemistry and Cosmochemistry.
5. Member, Editorial Board, Journal "Chemical Geology".
7. Vice-Chairman, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas.
8. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado.
10. Member, Viking Flight Team, Jet Propulsion Laboratory, Pasadena, California.
11. Received the National Aeronautics and Space Administration (NASA) Exceptional Scientific Achievement Medal.

14. Honorary Research Associate, Department of Mineral Sciences, American Museum of Natural History, New York, N.Y.


Barry S. Kues: Elected to Society of Vertebrate Paleontologists.


4. Publications

Roger Y. Anderson:


Douglas G. Brookins:


Jonathan F. Callender:


Wolfgang E. Elston:


Rodney C. Ewing:


Ewing, R. C., "Yttrialite and Rowlandite from the Barringer Hill Pegmatite District, Llano and Burnet Counties, Texas," American Mineralogist, in review.

Stephen P. Huestis:


Raymond V. Ingersoll:


Klaus Keil:


35


Kirchner, E., Keil, K., Gomes, C. B. and Nelen, J., Evidencias de metamorfismo de choque no meteorito Paranaiba, Mt. 29 Congressio Brasileiro de Geologia, Resumos dos Trabalhos, 346, 1976.

Keil, K., Gomes, C. B., and Curvello, W. S., O augita achondrito Angra dos Reis e sua importancia para a origem e historia de seu corpo parental. 29 Congressio Brasileiro de Geologia, Resumos dos Trabalhos, 347-348, 1976.


Kirchner, E., Keil, K., Gomes, C. B., and Murta, R. L. L., Meteorito Conquista, Mg. 29 Congressio Brasileiro de Geologia, Resumos dos Trabalhos, 351, 1976.

Gomes, C. B., Keil, K., and Jarosewich, E., Meteorito Uberaba, Mg. 29 Congressio Brasileiro de Geologia, Resumos dos Trabalhos, 352, 1976.


Albert M. Kudo:

Kudo, A. M., K-Ar ages of basalt flows at Canjilon Hill, Isleta volcano, and the Cat Hills volcanic field, Albuquerque-Belen basin, Central New Mexico" Isochron/West, no. 18, 1977, p. 15-16.

One article in press.

Barry S. Kues:


Kues, B. S., "Polyplacophorans from the Salem Limestone (Mississippian) of Central Indiana, Jour. Paleontology, in press.

Kues, B. S., "Approaches to Simultaneous Utilization of Economic and Paleontological Resources in the San Juan Basin of New Mexico", Geotimes (with J. A. Schiebout), in review.

Gary P. Landis:


38


Stephen G. Wells:


5. Other research projects or creative work in progress or completed during period.

Roger Y. Anderson:

Sandia Lab Research Grant - Climatic-solution history of the northern part of the Delaware basin (Los Medanos area), southeastern New Mexico:

14 months, $20,924.58. Supplement grant for above: $14,967.36.
Investigation of deep-ocean sedimentation by means of automated sampling. Cooperative project with U. S. Geological Survey to develop deep-ocean sediment traps.


Douglas G. Brookins:

Project NURE: water and stream sediment sampling in White Sands Missile Range, White Sands Ntl. Monument, Fort Bliss Military Res., adjacent area: (Los Alamos Scientific Laboratory; $70,000; 10-1-76: 9-30-77).

Project NURE: water and stream sediments sampling in New Mexico; Fort Sumner, Albuquerque, and Socorro Sheets: (Los Alamos Scientific Lab; $64,050; 10-1-77: 9-30-78).

Uranium, thorium, and potassium budget in the Zuni and Florida Mountains, New Mexico: (State Energy Resources Board; $67,400; 8-15-77: 8-14-78).


Rb-Sr and other geochemical studies of the Los Medanos area, NM, for radioactive waste repository feasibility: (Sandia Laboratories; $37,500; 10-1-76: 9-30-78).

Radioactive Waste Studies (Sandia Laboratories; $7,000; 7-1-76: open).

Research on the Oklo (Fossil Nuclear Reactor) Uranium Deposit, Gabon: Collaborative study with Los Alamos Scientific Laboratory.

Research on geothermal project -- Dry Hot Rock Program: collaborative study with Los Alamos Scientific Laboratory.

41
Theoretical study of Eh-pH diagrams relative to uranium deposits and radioactive waste repository sites (unfunded).

Geothermal Studies, New Mexico (joint U.S.G.S. -- N.M.E.R.B.; $400,000; 1-1-75: 12-31-77 -- one of eight co-investigators).

Jonathan F. Callender:


Fabric and permeability studies on undeformed and deformed rock salt: Sandia Laboratories Grant #DS-7442, 10/31/76 to 12/31/77, $14,995.


PUBLICATIONS IN PROGRESS:

1978, Contact metamorphism near the Sandia pluton, central New Mexico: Geol. Soc. America Bull. (with J. L. Berkley)


1978, Melanges and their bearing on environments of subduction: Geology.


1978, Geology of Albuquerque area; Albuquerque magazine.


Wolfgang E. Elston:
Principal Investigator, NASA grant NGR-32-004-062, Supplement No. 8, $1,000, Mars: Search for evidence of dynamic processes, duration: 2½ months.


Negotiated support for one graduate student by U. S. Geological Survey Minorities Participation Program, November 1977 to August 1978, $6,500.

Unsponsored research: world-wide compilation of distribution of ring complexes and related subvolcanic features.

Publications in press:


Brookins, D. G., Eppler, Dean, and Elston, W. E., in press, Strontium isotope initial ratios from the San Antonio Mountain area, New Mexico: Isochron/West.

Rodney C. Ewing:

Study of the relationships of the texture, fabric and composition of fine-grained terrigenous sediments and sedimentary rocks to the occurrence of and exploration for oil and gas. Supported by Sandia Laboratories (July 1, 1976 to Sept. 30, 1977) $25,000.


Metamict state and radiation damage in natural materials: unsupported
Mineralogy of Nb-Ta-Ti oxides: unsupported
Effects of thermal metamorphism on organic compounds: unsupported
Mineralogy of pegmatites: unsupported

Stephen P. Huestis:

In progress: "Upward and downward continuation of potential fields by the Backus-Gilbert method."

Raymond V. Ingersoll:

Title: Evolution of the Late Jurassic-Early Cretaceous fore-arc basin of northern California. Duration: 2/11/77 - 6/15/78. Amount: $1,249.00. Funding source: Research Allocations Committee, Univ. of New Mexico.

PUBLICATIONS IN PROGRESS:


Ingersoll, R. V., and Suczek, C. A., in prep., Petrology and provenance of Neogene sand from the Nicobar and Bengal fans, DSDP sites 211 and 218: To be submitted to Jour. Sed. Petrology.


Continuing work on circum-Pacific arc-trench systems.

Research on sandstone petrology of Paleozoic, Mesozoic and Cenozoic sandstones of New Mexico.

Klaus Keil:


Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1974 - Jan 31, 1977 165,436.00

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of polymict-brecciated stone meteorites." June 1, 1974 - May 31, 1977 91,475.00

Research Grant from NASA Headquarters, Washington, D.C., entitled Mineralogy, petrology and chemistry of brecciated stone meteorites: Impact and igneous histories of meteorite parent bodies." June 1, 1975 - Feb. 29, 1978 78,700.00


Research Grant from NASA Langley Research Center, Hampton, Virginia, entitled: "X-ray fluorescence analysis of Martian soil via the Viking x-ray fluorescence spectrometer, April 1, 1977 - June 30, 1979. $36,000.00


Total grants in effect 1,386,547.00

Albert M. Kudo:

Work on Geothermal Grants (USGS and NMERDP) -- Grants to end this year.

Two papers in preparation for publication.

Initiated work on Petrology textbook.

Work on Uranium in volcanic rocks initiated.

Submitted proposal to the National Science Foundation (good reviews, but no funding).

Barry S. Kues:

Fossils as Resources; an inquiry into the effects of land use and land protection on fossils in the U. S.

Invertebrate fauna of the uppermost Pennsylvanian Red Tanks Member, Madera Formation, in central New Mexico. Part I. Gastropods and Scaphopods.

Paleontology and stratigraphy of the Oketo Shale Member (Barneston Limestone), Lower Permian, of Kansas and Nebraska.

The geobiologic significance of the echinoid Echinometra as an agent of bioerosion in the southern Florida Keys (with C. T. Siemers).

A diverse Desmoinesian (Pennsylvanian) gastropod assemblage from the Sangre de Cristo Mountains, north central New Mexico.

A new Upper Pennsylvanian eurypterid from the Lucero Uplift, central New Mexico (with K. Kietzke).

Studies of brachiopods, bivalves, and cephalopods of the Red Tanks Member, Madera Formation.
Paleontological Resource Assessment and Environmental Impact
Study of the San Juan Basin of New Mexico. Funded by U. S. Bureau of Land Management, $83,000. (with J. W. Froehlich)

Texture, fabric, and composition of fine grained sedimentary rocks in New Mexico. Funded by S.U.R.P., $25,000 (with R. C. Ewing)

Gary P. Landis:
A new technique for fluorination of oxygen isotope samples using specially purified fluorine gas. (Completed Fall, 1977).

Geochemistry of sedimentary uranium deposits; systematics of sulfur, carbon, and oxygen isotopes as further evidence for chemical conditions of uranium transport and deposition indicated by clay mineral equilibria (in preliminary stage with D. G. Brookins)

Fluid inclusion and stable isotope studies of the Harding Pegmatite, Picuris Range, New Mexico; with L. Cook (M.S.)

Carbon and oxygen isotope studies of contact metamorphism effects on potential petroleum reservoirs, a possible exploration tool (preliminary stage of study completed Spring, 1977).

Evolution of volcanic caldera: an in-depth study of watermagma interaction and of modeling physical and chemical mechanisms. This work is a logical extension to 25 years of work in the Mogollon-Datil volcanic rocks of New Mexico by W. E. Elston and his students. NSF support will be requested for this work.

Geochemistry as it pertains to nuclear waste disposal site selection and evaluation, Eddy County, New Mexico; science advisory panel and consultant for Sandia Laboratories (ERDA).

Metamorphic fluids; a case history from the Placitas - Juan Tabo contact metamorphic aureole, Sandia Mountains of New Mexico, with

Geology and geochemistry of skarn mineralization at the San Pedro mine, San Pedro Mountains, New Mexico: Computer modeling of solution fluids based upon input from geologic, fluid inclusion, stable isotope, and other geochemical studies, with M. Fulp (MS-PhD).

Geology, ore petrography, and stable isotopes of the Precambrian Terrero massive sulfide orebody, Pecos, New Mexico; with W. D. Riesmeyer (MS).

Geology, mineralogy, and geochemistry of a Tertiary fossil-geothermal system of possible acid-sulfate vapor dominated character, Alum Mountain, Gila Wilderness, New Mexico; with H. R. Northrop (MS).

Orbicular granite textures in the Precambrian intrusion of the Sandia Mountains, New Mexico; stable isotope evidence for origin.

$^{36}$S distribution in natural and experimentally synthesized sulfide phases, an improved sulfur isotope geothermometer (technique using SF$_6$ and triple collecting 12"-90° RMS, additional instrumentation development is required.

Stephen G. Wells:

*Earth Cycles, An Introduction to Physical Geology, (textbook).*

Co-authors: R. Ewing, J. Callender.

National Park Service, U. S. Department of Interior; $8,053; Geomorphic Effects of Recent Forest-fire Devegetation in Frijoles Canyon Watershed, Bandelier National Monument, New Mexico; 1 year.
UNM Research Allocations Committee; $1,490; Hydrology of Evaporite Aquifers and Surficial Geology of Contributing Catchment Areas in Semi-Arid Karst, Eddy County, New Mexico; 1 year.

U. S. Air Force and Am. Soc. Eng. Ed.; Summer Faculty Program:

Unsponsored Research: Tectonic Geomorphology of the Animas Valley in Southwestern New Mexico.

Lee A. Woodward:

Grant for $103,235 from New Mexico Energy Resources Board for evaluation of geothermal potential of the Basin and Range Province of New Mexico (renewal); co-investigator.
6. Activities in learned and professional societies:

Roger Y. Anderson:

Presented paper on Dissolution breccias in the Delaware Basin at Salt Dissolution Review Meeting, Union Carbide Corp., March 29, 30, 1977, Austin, Texas.

Presented 3 papers (see list of publications for titles) at Symposia on the Ochoan Rocks of Southeastern New Mexico and West Texas, May 3-7, 1977, Carlsbad, New Mexico.


Member:  Geol. Soc. America, AAAS.

Douglas G. Brookins:

Meetings - see Item 2. Papers presented at all meetings attended.

Nominating Committee, Amer. Geophys. Union

Honor Schroll Committee, NM Inst. Chem. (chairman, 1977-78)

Amer. Assoc. Adv. Sci. -- Southwestern & Rocky Mountain Section:

Local Arrangements Program Chairman, 1977-78.

Editorial Staff, Geology.

Editorial Staff, Colo. School Mines Bull.

Two seminars on Radioactive Waste Disposal (Geology Dept.).

Jonathan F. Callender:

President-elect, Sigma Xi, UNM Chapter

President, New Mexico Geological Society

Editor, New Mexico Geological Society

Attended Geol. Soc. America annual meeting and read paper, "Tectonics and development of northern part of Rio Grande rift, New Mexico and Colorado:"

Geol. Soc. America, Abs. with Programs, v. 9, p. 81-82 (with L. A. Woodward).
Attended New Mexico Geol. Soc. Fall meeting and gave Presidential address.


Member, Steering Committee, Conference on Rio Grande rift and world rifts (Chairman, Poster session committee; co-chairman, international participants selection committee); sponsored by International Commission on Geodynamics.

Project Correspondent, U. S. Geodynamics Committee.

Visiting Staff Scientist, Los Alamos Scientific Labs.

Wolfgang E. Elston:


Co-leader (with L. S. Crumpler and J. C. Aubele) geologic field trip to basaltic volcanic fields Mount Taylor and Rio Grande regions for invited participants, June 6-8, 1977.

"Rifting and volcanism in the New Mexico segment of the Basin and Range province, southwestern USA," a paper presented at the NATO Advanced


Rodney C. Ewing:


Stephen P. Huestis:
Membership, American Geophysical Union
New Membership, Royal Astronomical Society

Raymond V. Ingersoll:
Attended Geol. Soc. America, Cordilleran Section annual meeting, Sacramento, California.
Field Trip Leader, Geol. Soc. America, Cordilleran Section, Sacramento, California.
Attended New Mexico Geol. Soc. Annual Field Trip to San Juan Basin, N. M.
Attended Geol. Soc. America annual meeting, Seattle, Washington.
Read professional paper at Geol. Soc. America annual meeting, Seattle, Washington.

Klaus Keil:
Secretary, Commission on Meteorites, International Union of Geological Sciences.
Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association.
Secretary, International Association for Geochemistry and Cosmochemistry.

Chairman, Leonard Medal Committee, Meteoritical Society.


Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.


Houston, Texas. Attended the Conference on Luna 24 in the Lunar Science Institute and co-authored two talks on "Chemical distinctions
among very low-Ti mare basalts" and "Chemical and petrographic studies of 18 Luna 24 lithic fragments." Nov. 1-3, 1977.


Albert M. Kudo:
Attended the Annual Meeting of the American Geophysical Union, December, 1977.

Reviewed two papers for the Geol. Soc. America.

Reviewed abstracts for the Geol. Soc. America for meeting in spring.

Barry S. Kues:
Presented talks to Society of Vertebrate Paleontologists: "The University of New Mexico/BLM Star Lake-Bisti environmental statement paleontological survey"; "Upper Cretaceous vertebrate faunas of the San Juan Basin, New Mexico"; both given Nov. 11, 1977.

Gary P. Landis:


Stephen G. Wells:


Travel to Cord. Sec. Meeting of Geol. Soc. of America, Sacramento, CA.

Annual Meeting of American Association for the Advancement of Science, Denver, Colorado.

1977 Board of Directors Meeting, Cave Research Foundation, St. Louis, Missouri

Chief Scientist for Cave Research Foundation
Co-chairman of Advertisement Committee for New Mexico Geological Society

Lee A. Woodward:


Associate Editor of the Bulletin of the Geological Society of America.

Chairman of technical session at Geological Society of America meeting, El Paso, Texas, March 17, 1977.

Attended American Association of Petroleum Geologists Rocky Mountain Section meeting in Denver, Colorado, April 3-4, 1977.


Chairman of technical session at Geological Society of America meeting in Missoula, Montana.

Reviewer of articles submitted for publication in Geology.

Attended Geological Society of America annual meeting in Seattle, Washington, November 6-9, 1977, as member of Joint Technical Program Committee and as member of Editorial Board.

Appointed to 3-year term as a member of the Membership Committee of the Geological Society of America.

7. Other professional activities:

Roger Y. Anderson:

Member, Site Selection Peer Review Panel, ERDA, W.I.P.P. (Nuclear Waste Isolation Pilot Plant), Sandia Laboratories.

Consultant, Sandia Laboratories (W.I.P.P. Project) Geologic evaluation of nuclear waste repository.


Review of manuscript, "A lightweight easy to handle sediment trap device," by Alther, G. R. and Clark, R. L.

Review of manuscript, "A simple method for relocating lake seston traps", by Chambers, K. C., and Parker, A.


Douglas G. Brookins:
Off-campus talks to League of Women Voters.
Workshops on radioactive waste disposal, Los Alamos Sci. Lab'y.
Consulting work for Dames and Moore on uranium feasibility study.
Reviewed books on General Geology and on Environmental Geology.
Reviewed five manuscripts for Second Int. Kimb. Conf.
Reviewer for Geology, Geol. Soc. Amer., Chem. Geology.
Board of Directors, Energy Exploration Education, Inc.

Jonathan F. Callender:
1977, Geologic highlights of New Mexico (filmstrip and audio tape):
New Mexico Audio Visual, Albuquerque, NM (with S. Stein).

KGGM-TV interview
Albuquerque Tribune interview
Lecture to Energy Resources Board, State of New Mexico
Lecture to UNM Nuclear Waste Seminar
Consultant, Sandia Laboratories
Albuquerque City Planning Commission Consultant
Gibbs and Hill, New York, Consultant
Consultant, Sutin, Thayer & Brown
Consultant, Bernalillo County Planning Commission
Lecture to Albuquerque Gem and Mineral Club
Community College Course, Geology of New Mexico

Wolfgang E. Elston:
Gave presentations to N. M. Energy Resources Board, January 14, 1977 and April 21, 1977.
Member, Selection Committee, Best Earth Science Teacher of the Year (for New Mexico), Southwest Section, National Association of Geology Teachers.


Field trips to volcanic areas of southwestern New Mexico with Professor G. P. L. Walker, Imperial College, London, England, September 26, 1977 and with Professor Volker Lorenz, University of Mainz, Germany, October 13, 1977.


Reviewed research proposals for the National Science Foundation.

Led student field trip of mining districts of southwestern New Mexico, November 17-19.

Consulting work for the mining industry.

Rodney C. Ewing:
Supervise the Harding Pegmatite Mine property
Supervise x-ray laboratory facilities
Supervise renovation of Mineralogy Section of Geology Museum
Reviewed manuscripts submitted for publication in the American Mineralogist.

Consultant: Sandia Laboratories

J. Paul Fitzsimmons:
Translation of 7 scientific articles from Russian for other faculty members (and graduate students), 44 pages.


Preparation of mineral and rock collections, with explanatory notes, for a boy's camp in the Sandia Mountains.

Raymond V. Ingersoll:
Taught summer school, University of New Mexico

Klaus Keil:
Consultant, Sandia Laboratories, Albuquerque, New Mexico
Reviewed four lunar sample proposals submitted to NASA for funding.
Reviewed 14 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.


Several interviews with the Lobo, Albuquerque Journal and Albuquerque Tribune regarding U. S. Viking Mars Missions.


Leader of the Kenna Consortium.

Leader of the Angra dos Reis Consortium.

Hosted the Meeting of the Southwest Probe Users Group, April 21, 1977.

Hosted and organized visits of the following scientists to UNM, most of which presented seminars:


c) Dr. Lee Rudy, Provost, University of California, La Jolla, Calif., April 5, 1977.


e) Dr. Robert Dietz, Arizona State University, Tempe, Arizona, April 22, 1977.

f) Dr. James Gunnerson, Nebraska State Museum, Lincoln, Nebraska, May 23, 1977.

h) Dr. H. Wakita, University of Tokyo, Japan, Sept. 3, 1977.


k) Dr. J. McSween, Dept. of Geology, University of Tennessee, Knoxville, Tennessee, Nov. 10-11, 1977.


Taught special classes as guest lecturer in the following courses:


d) Class on Instrumental methods in Geology (Geology Dept., UNM). Gave guest lectures on Nov. 11 and 14, 1977, and gave a 2 hour laboratory session on Nov. 16, 1977.

Albert M. Kudo:
Reviewed proposal sent to the National Science Foundation for funding.
Taught Geochemistry and Mineral Deposit course at Sandia Corp.
Consultancy for Wyoming Minerals Corp.

Barry S. Kues:
Presentation on paleontological resources of San Juan Basin to B.L.M. public meeting, June 22.
Talk to Albuquerque chapter of Sierra Club on Late Cretaceous fossils, Sept. 8.
Talk and led field trip for Canoncito alternative school, Canoncito, N. M., Oct. 10.
Participation in panel discussion sponsored by the B.L.M. on New Mexico's paleontological resources and projected impact of strip mining for coal, Oct. 27.
Talk on fossils and strip mining impact of San Juan Basin, N. M., to executive committee, N. M. Sierra Club, Dec. 3.
Member of Governor's task force for paleontological resource management in New Mexico, Dec.

Gary P. Landis:
Consulting for Sandia Laboratories, Los Alamos Scientific Labs (CNC-11 and Geoscience), and Conoco Minerals Division.

Stephen G. Wells:
Editor for Cave Research Foundation Annual Report, submitted to National Park Service.
Chairman of CRF Karst Fellowship Committee
Reviewed articles for Geol. Soc. of America Bulletin.
Consulting Geologist for: Sandia Laboratories, Nuclear Waste Disposal Project (WIIP) and Geothermal Project of Dept. of Geology, UNM, Recent Faulting in Animas Valley and Relation to Geothermal Potential, Consulting Geologist.

Lee A. Woodward:
Reviewed grant proposals for the National Science Foundation.

Roger Y. Anderson:
Chairman, Univ. Committee on Paleoecology
Member, Research Policy Committee

Douglas G. Brookins:
Chairman, Geology Department
Advisor to geology graduate students and non-geology minors

Jonathan F. Callender:
Research Policy Committee (Chairman, Research Budget subcommittee)
General Library Liaison for Geology
Undergraduate Curriculum Committee Chairman, Geology Dept.
Committee on Examinations, Geology
Department Review Committee, Geology
Department Library Advisor, Geology
Thin-section laboratory supervisor
Undergraduate and Graduate Advisor
M.S. and Ph.D. thesis Advisor and Chairman

Wolfgang E. Elston:
Semester I, Member, Graduate Committee, Chairman, Subcommittee on Evaluation and Planning, Section A. Chaired ad hoc evaluation committees for evaluation of graduate programs in Music Education, Music History
and Literature, Comparative Literature, and Portuguese. Reports of these evaluations were submitted to the Graduate Committee and the Provost.

Semester II, Member, A & S Promotion Advisory Committee for Science and Mathematics.

Semester I, in charge of inviting speakers for departmental colloquia. Chairman of 2 Ph.D. and 6 M.S. committees, Graduate students published two papers; one is in press.

**Rodney C. Ewing:**
Undergraduate Curriculum Committee
Graduate Admissions Committee
General Honors Council
Graduate Advisor
NAPCOE advisor
Presidential Scholar Advisor

**J. Paul Fitzsimmons:**
Undergraduate advisor in Geology Department

**Raymond V. Ingersoll:**
Faculty representative, Dept. of Geology, Univ. of New Mexico graduation exercises.

Member, Geology Department Graduate Curriculum Committee
Member, 16 thesis and dissertation committees
Chairman, 3 thesis committees
Graduate and Undergraduate Faculty Advisor

**Klaus Keil:**
Administration of the Institute of Meteoritics and its collections.
Chairman and member of several theses and dissertation committees in the Department of Geology.
Member of the Dean's Committee to evaluate new proposed general science course.

Member of the A & S Committee on Academic Programs.

Member, Committee on Language Exams, UNM Department of Geology.

Member, Committee on Objectives, UNM Department of Geology.

**Albert M. Kudo:**

Chairman of the UNM Colloquium Committee

Chairman of the Sandia-UNM Colloquium Committee

Member of Graduate Admissions Committee, Geology Dept.

Faculty advisor for Presidential Scholar.

**Barry S. Kues:**

Advisor to graduate and undergraduate geology students

Membership on several intradepartmental committees

Membership on Provost's Committee for planning of Natural History Museum.

**Gary P. Landis:**

Graduate Programs Committee, Geology Dept.

Comm. on Exams, Geology Dept.

Dept. Review Committee

A & S Graduate Education Committee

**Stephen G. Wells:**

Graduate Admissions Committee, Dept. of Geology

Advisor for one Ph.D. candidate, one M.S. student, and one Graduate Research Project.

**Lee A. Woodward**

Chairman of three thesis and dissertation committees
9. Public Service

Roger Y. Anderson:
Lecture to C.A.N.T. on Geology of Carlsbad area.
Lecture, Unitarian Church, Laguna Beach, California, Nature of Change.
Identification of rocks and fossils for the public.

Douglas G. Brookins:
Board of Directors, Congregation Albert (Chairman, Religious School Committee)
Jewish Community Council, Budget & Allocations Committee
Geology advisor for boy scout troop.

Jonathan F. Callender:
Lectures at Sunday School classes (various denominations), Junior League of Albuquerque, Cactus & Succulent Society, high schools, Albuquerque Rockhounds, to non-Geology at UNM, and others.

Wolfgang E. Elston:
Member, Advisory Board, Explorer Post 296, Boy Scouts of America
Gave advice to the public on mineral deposits and local geology
Member, Parent-Teacher-Student Association, Albuquerque High School.

Rodney C. Ewing:
Conducted tour of Geology Museum for Sandia School (March 30).
Presentation on "Radioactive Waste Disposal" to Farmington School District In-Service Training Session, Farmington, New Mexico (September 26)
Klaus Keil:

Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite museum to interested citizens, school classes, civic groups, etc.


Presented talk on "The U.S. Viking Missions to Mars" to the Amer. Society of Mechanical Engineers, New Mexico Section, Santa Fe, NM, Feb. 4, 1977.

Presented talk on "Exploration of Mars: The U.S. Viking program" to UNM Women's Faculty Club. April 12, 1977.


Investigated without charge many rocks suspected to be meteorites and brought in by citizens.

Albert M. Kudo:

Various talks on Geology and Origami to Albuquerque Public School classes.

Member of Task Force on Declining Enrollment for APS (Stapleton's Committee).

Member of Executive Board of Bellehaven PTA.

Barry S. Kues:

Member, Committee to establish a State Natural History Museum
Gary P. Landis:
Boy Scouts: a) Founding (charter) comm. member and unit co-ordinator - Troup 410 and b) Pack 410, song leader, steering comm. member.
Arroyo Del Oso Elementary School Parent Teacher Association Member.

Stephen G. Wells:
Consulting with Environmental Planning Commission of City of Albuquerque.

Lee A. Woodward:
Member of Advisory and Peer Review Committee of the Energy Institute for Fossil Fuels (sponsored by New Mexico Energy Resources Board).

10. Personal Information

J. Paul Fitzsimmons:
Wife died.

S. P. Huestis:
Married July 30, 1977 - Diedra A. Huestis

Raymond V. Ingersoll
Wife, Mary Ingersoll, KGGM-TV (Ch. 13) anchorwoman and weatherperson.

Gary P. Landis:
Add one new beautiful baby girl, Kathryn Emily, born November 25, 1977.
The Report of the Institute of Meteoritics

July 1, 1968 to June 30, 1978

Klaus Keil, Director

This paper constitutes the Annual Report of the Institute of Meteoritics for the period of July 1, 1977 to June 30, 1978. However, this is also the tenth anniversary of the appointment of the present Director of the Institute, and it seemed appropriate to summarize on this occasion the activities and achievements of the Institute of Meteoritics and of its staff and students for this ten year time period from July 1, 1968 to June 30, 1978. Accordingly, the present report covers this ten year time period and summarizes the activities and achievements of Institute of Meteoritics personnel in the areas of teaching, research and public service and documents the important role the Institute plays at UNM as one of the major and most-respected research institutions in extraterrestrial geology and cosmochemistry in the world.
## Table of Contents


1. Introduction .................................................. 2
2. Teaching ....................................................... 4
3. Research ....................................................... 4
4. Public Service .................................................. 7
5. Importance of the Institute of Meteoritics to the University of New Mexico .................................................. 8
6. Future role and requirements .................................. 9

II. Appendixes

Appendix 1: Present staff of the Institute of Meteoritics (in 1978), and sources of salary support. ......................... 10
Appendix 2: Number of undergraduate and graduate students in the Institute of Meteoritics since 1968, supported by outside grants and contracts... 11
Appendix 3: Outside grants and contracts awarded to K. Keil as Principal Investigator in the Institute of Meteoritics since 1968. ........ 12
Appendix 4: Dissertations and theses in the Institute of Meteoritics, with degrees in Geology, since 1968. ......................... 21
Appendix 5: Publications of the Institute of Meteoritics since 1968: Scientific articles published in major national and international journals; scientific publications published by the Institute; as well as books. ............... 23
Appendix 6: Publications of the Institute of Meteoritics since 1968: Published abstracts of talks presented at national and international scientific meetings. ......................... 47
Appendix 7: Meetings and professional papers by members of the Institute of Meteoritics since 1968. ....................... 59
Appendix 8: U.S. and foreign visiting scholars in the Institute of Meteoritics since 1968. ........ 86
Appendix 9: Professional travel by members of the Institute of Meteoritics since 1968. ............ 97
Appendix 10: Other professional activities of members of the Institute of Meteoritics since 1968. .......................... 123
Appendix 11: Public service by members of the Institute of Meteoritics since 1968. ......................... 133
Appendix 12: Honors bestowed on members of the Institute of Meteoritics since 1968. ......................... 140
Appendix 13: Activities of members of the Institute of Meteoritics as officers in professional societies and associations. ......................... 142
I. REPORT OF THE INSTITUTE OF METEORITICS, 1968-1978

1. Introduction

The Institute of Meteoritics was founded in 1944 and is the oldest institution of its kind in the world. It was initially founded as an individual unit in the College of Arts and Sciences. Since 1968, when the present Director took office, the Institute has been a Division within the Department of Geology and is housed in the same building (Northrop Hall). The Director of the Institute is also a Professor in the Geology Department but administers the Institute as a separate unit, with separate budget, staff, etc. The incorporation of the Institute as a Division into the Department of Geology has been extremely beneficial to both the Institute and Department. For example, students interested in thesis or dissertation work on topics within the framework of the Institute's research mission (e.g. meteorite and lunar sample studies; geology of Mars; comparative planetology; terrestrial and planetary volcanology; etc.) can work on such topics with personnel of the Institute but obtain an advanced degree in geology, thus providing for the broadest possible employment opportunities. In turn, the availability of the sophisticated research equipment in the Institute, the extensive out-side grant support received by members of the Institute, the involvement of geology students in research in the forefront of meteoritics and cosmochemistry etc., have been extremely beneficial to students and faculty of the Department of Geology.
The Institute of Meteoritics has changed and evolved dramatically since 1968, both in size and in scope. Then, the staff consisted of the Director, 1/2 time Secretary, 1/2 time Graduate Research Assistant, and the Electron Microprobe Specialist. Now, in addition, the Institute has a full-time Secretary, a Senior Research Associate (Ph.D), 2 Post-doctoral Fellows (Ph.D), a Staff Scientist (M.S.), 12 graduate Research Assistants (see appendixes 1,2), and about 2-4 U.S. and foreign Visiting Scholars (Ph.D) per year. Except for the Director, the Senior Research Associate, the Electron Microprobe Specialist, the Secretary and 1/2 time Staff Scientist, all other personnel is funded by outside grants and contracts (see appendix 1). Since 1968, about $2.7 million have been attracted from the outside to the Institute (see appendix 3), whereas the UNM budget is presently about $75,000.00 per year. Thus, the overhead generated annually by the Institute approaches the Institute's UNM budget. In addition, many salaries for professionals (see appendix 1) and all for students are paid from outside grant and contract funds (e.g. since 1968, approximately $400,000.00 have been spent for 72 graduate and 37 undergraduate student salaries; see appendix 2) and about $300,000.00 have been spent on equipment.

The scope and functions of the Institute have also evolved and changed dramatically since 1968 and now concern 3 main areas, namely teaching, research, and public service.
2. Teaching

Teaching concerns classroom teaching by members of the Institute of Meteoritics as part of the curriculum of the Department of Geology and includes courses on "Meteoritics and cosmochemistry", "Microprobe analysis", "Petrography of opaque ores", Instrumental methods in geochemistry", "Physical geology", and "Seminar on current topics in geology". A considerable portion of the teaching by the staff of the Institute is done outside the classroom in the form of supervision of Senior Theses, Masters Theses, and Ph.D Dissertations, as well as other research assignments and projects to undergraduate and graduate students. Since 1968, this has resulted in the completion of 2 Senior Theses, 6 M.S. Theses (3 in progress), 3 Ph.D. Dissertations (3 in progress) (see appendix 4), and 40 scientific papers (see appendix 5) and 37 abstracts (see appendix 6) published in national and international scientific journals that were authored or co-authored by students of the Institute (note that this does not include assistance in student research by Institute personnel for students working with other Professors in the Geology Department). Furthermore, students in the Institute attended 35 scientific professional meetings and conferences and presented scientific papers (see appendix 7). Finally, many Department of Geology students not working in the Institute have profited from classes and seminars taught by Institute personnel, have received supervision and advice from Institute personnel and have used Institute equipment for thesis, dissertation and other research.

3. Research

Research in the Institute of Meteoritics is carried out by faculty, staff, post-doctoral fellows, visiting scholars, graduate and undergraduate research assistants. Since 1968, 8 post-doctoral fellows and 66 U.S. and 35 foreign visiting scholars have visited and worked in the Institute (see appendix 8),
and 72 graduate research and 37 undergraduate research assistantships totalling about $404,000.00 have been awarded from outside funds to students (see appendix 2). Research support comes largely from outside grant and contract agencies (e.g. NASA, NSF, DOE). Since 1968, 52 grants and contracts totalling $2.7 million have been in effect (most of them are forward-funded) with the present annual support being about $390,000.00 (see appendix 3).

Research in the Institute before 1968 was largely in the field of Meteoritics proper. Now, research is carried out in the forefront of planetary mineralogy, petrology, and chemistry and is aimed at all aspects required for an understanding of the origin of our solar system, the planets, and their evolution through time. Presently, research is carried out to that end in basically 6 areas. These are 1) The origin and history of meteorites and their parent bodies; 2) origin and evolution of the earth's moon, based on studies of lunar samples returned by the U.S. Apollo 11, 12, 14, 15, 16 and 17 manned missions and the Soviet Luna 16, 20 and 24 unmanned missions; 3) the origin and evolution of the surface rocks and soils of Mars, based on the results of the U.S. Viking unmanned landings on the planet, as well as theoretical and laboratory analog studies; 4) the experimental study of the nucleation kinetics and textures of highly super-cooled molten silicates as indicators for the origin of meteoritic and lunar chondrules and, ultimately, the cooling conditions of the solar nebula from which our solar system condensed and agglomerated; 5) the origin and evolution of terrestrial basaltic and ultramafic rocks from Hawaii, drilled by JOIDES from the ocean floor, and collected in New Mexico, as analogs to extraterrestrial basaltic and ultramafic rock types; and 6) geological aspects of the disposal of high-level nuclear wastes in geologic media, particularly shale, tuff, and deep basement rocks. In addition, personnel of the Institute devotes a great amount of time to planning of future space missions in an advisory capacity to NASA. One important mission presently considered, for
example, is the exciting prospect of an unmanned mission to Mars that will allow surface exploration, discriminatory sample selection, and **sample return** for study to Earth. We are convinced that some of the most basic cosmological questions, such as the question of life on Mars and the complex weathering processes on the planet can only be solved by detailed, well-planned studies of returned samples, and not remotely. Of course, as priorities in planetary geology and cosmochemistry change, so will the research emphases in the Institute of Meteoritics: Our goal is to always work in the forefront of planetary-and space geology-related areas that are most likely to help advance man's knowledge of the origin and evolution of our solar system and the planets.

Since 1968, members of the Institute of Meteoritics have published the results of their research in the above-mentioned 6 areas in the form of 207 **scientific publications** in major national and international journals and, in addition in the form of 105 **abstracts** of talks given before national and international conferences and symposia. Since there are only 2 permanent UNM academic employees in the Institute of Meteoritics (the Director and the Senior Research Associate; see appendix 1), this calculates to **10.3 publications** and **5.3 abstracts** per academic employee per year. When calculating these ratios on the basis of all Ph.D.-level personnel in the Institute (i.e. the Director, The Senior Research Associate, and 2 rotating Post-doctoral Fellows funded by outside grant money; see appendix 1), this still amounts to **5.2 major publications** and **2.6 abstracts per year per Ph.D. in the Institute**. Note, however, that the Senior Research Associate and the 2 Post-doctoral Fellow positions have become available only since 1970 and 1972, respectively. Thus, before 1970, the publication load was carried by only one and before 1972 by only 2 Ph.D's. Today, the publication rate is therefore considerably higher: in 1977, for example, **41 major scientific publications** were published in
national and international scientific journals, amounting to **20.5 publications per permanent Ph.D** or **10.3 publications per Ph.D.** in the Institute! (see appendix 5). Thus, the Institute's personnel has consistently been extremely productive over the years, both in quality and quantity of the published research. In addition, members of the Institute have participated in **315 professional travels** (see appendix 9) and **269 professional meetings** (see appendix 7), the vast majority of which was funded by outside grants and contracts. Also, members of the Institute have been involved in a multitude of other professional activities, such as editorships of journals and books, consultancies; served as reviewers of proposals submitted to funding agencies and of papers submitted for publication in national and international journals, organized exhibits of moon rocks and meteorites, gave many radio and television interviews and TV shows on subjects related to space research, etc. (see appendix 10).

4. **Public Service**

Public service is the third major function of the Institute of Meteoritics. As part of this public service, the Institute maintains a meteorite museum where samples of stone and iron meteorites, tektites, impactites and meteorites of New Mexico are displayed, together with color photomicrographs illustrating their texture. This Museum is open to the public, and it is estimated that approximately **10,000 citizens** visit the Museum per year.

Public service of members of the Institute further includes inspection, without charge, of rocks suspected to be of meteoritic origin, as well as special guided tours of the Meteorite Museum and of the **moon rocks** in our laboratory that are not on public display. In addition, members of the Institute present many talks to school classes, civic groups etc. and arrange special meteorite exhibits, for example, at the New Mexico State Fair, at Gem and Mineral Club exhibitions, etc. (for details, see appendix 11).
5. Importance of the Institute of Meteoritics to the University of New Mexico.

The Institute of Meteoritics enjoys a national and international reputation as a leading institution in the field of extraterrestrial geology and cosmochemistry in the world and has brought considerable recognition to the University of New Mexico. This recognition has come in various forms, for example, in the many honors that have been bestowed by professional organizations, government agencies etc. upon individuals of the Institute: Since 1968, members of the Institute have been honored on 29 occasions by such bodies (see appendix 12). Furthermore, recognition has also come to the Institute from professional societies, for which Institute members served on 58 occasions since 1968 as officers, editors, etc. (see appendix 13). The national and international reputation of the Institute is also evidenced by the 66 U.S. and 35 foreign visiting scholars that have come to the Institute since 1968 (see appendix 8), and the academic excellence of the Institute is indicated by the 207 publications (see appendix 5) and 105 abstracts (see appendix 6) published by members of the Institute since 1968, by the 269 professional meetings attended and talks given (see appendix 7), as well as by the 52 grants and contracts received, totalling about $2.7 million since 1968. The Institute further contributes greatly to UNM by training graduates students and by providing the basics for some of the most outstanding and exciting research done at UNM. The Institute has consistently attracted the most gifted students in the Department of Geology, as is evidenced by their outstanding academic records. In fact, many students come here largely because of the Institute and the special research and training opportunities it provides. There is a considerable demand for students trained in this field, as is evident from the fact that all our students have found employment in major Universities, research and industrial laboratories, as well as mining and other industries (see appendix 14). Thus,
the Institute of Meteoritics is an outstanding asset to the University of New Mexico and our State.

6. Future role and requirements

It is anticipated that the role of the Institute will continue as it has in the past few years, always with emphasis shifting to what appear to be the most exciting and important areas of research. The Institute is sufficiently small to allow for such shifts to take place over short time intervals, an important aspect of the unique role this Institute plays at UNM.

Personnel of the Institute should remain as is, with one important exception. That is the addition of a full-time, permanently employed, Ph.D level Research Associate. The present permanent scientific staff of the Institute consists only of two Ph.D's (the Director and the Senior Research Associate), and one M.S. (the Staff Scientist; 1/2 time). All other scientific personnel is on contract and grant salaries. The addition of a permanent Research Scientist on UNM funding to the staff would allow us to even further increase our involvement in sponsored research and the cost would ultimately be off-set by increased outside funding that a new person could attract. Specifically, we would like to get involved on a larger scale in the study of oceanic basalts drilled from the ocean floor, as well as Mars soil analog studies, projects that the present scientific personnel cannot do full justice. Consideration of an additional Research Associate (Ph.D) for the Institute of Meteoritics is therefore urgently requested.
Appendix 1

Present staff of the Institute of Meteoritics (in 1978), and sources of salary support.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Source of Salary Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dr. Klaus Keil</td>
<td>Director and Professor</td>
<td>UNM 9 months NASA 2 months</td>
</tr>
<tr>
<td>2. Dr. G. J. Taylor</td>
<td>Sr. Research Associate</td>
<td>UNM 80% NASA 20%</td>
</tr>
<tr>
<td>3. Dr. R. D. Warner</td>
<td>Post-doctoral Fellow</td>
<td>NASA 100%</td>
</tr>
<tr>
<td>4. Dr. J. L. Berkley</td>
<td>Post-doctoral Fellow</td>
<td>NASA 100%</td>
</tr>
<tr>
<td>5. D. Lange (M.S.)</td>
<td>Staff Scientist</td>
<td>UNM 50% NASA 50%</td>
</tr>
<tr>
<td>6. S. H. Conrad</td>
<td>Electron Microprobe Specialist</td>
<td>UNM 100%</td>
</tr>
<tr>
<td>7. M. Fillmon</td>
<td>Secretary</td>
<td>UNM 100%</td>
</tr>
<tr>
<td>8. P. Longmire</td>
<td>Graduate Research Assistant</td>
<td>UNM 1/2 time</td>
</tr>
<tr>
<td>9. J. Gooding</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>10. G. Huss</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>11. G. Lux</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>12. W. Mansker</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>13. S. Wentworth</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>14. R. Nielsen</td>
<td>Graduate Research Assistant</td>
<td>NASA 1/2 time</td>
</tr>
<tr>
<td>15. H. Planner</td>
<td>Graduate Research Assistant</td>
<td>DOE 1/2 time</td>
</tr>
<tr>
<td>16. T. Pink</td>
<td>Graduate Research Assistant</td>
<td>DOE 1/2 time</td>
</tr>
<tr>
<td>17. G. Smith</td>
<td>Graduate Research Assistant</td>
<td>DOE 1/2 time</td>
</tr>
<tr>
<td>18. S. Griffith</td>
<td>Graduate Research Assistant</td>
<td>DOE 1/2 time</td>
</tr>
<tr>
<td>19. J. Dean</td>
<td>Undergraduate Research Assistant</td>
<td>Work/Study 80% NASA 20%</td>
</tr>
<tr>
<td>20. My Van Vu</td>
<td>Undergraduate Research Assistant</td>
<td>Work/Study 80% NASA 20%</td>
</tr>
</tbody>
</table>
# Appendix 2

Number of undergraduate and graduate students in the Institute of Meteoritics since 1968, supported by outside grants and contracts.

<table>
<thead>
<tr>
<th>Year</th>
<th># of undergraduate students</th>
<th># of graduate students</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1968-1969</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1969-1970</td>
<td>3</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>1970-1971</td>
<td>6</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>1971-1972</td>
<td>5</td>
<td>9</td>
<td>14</td>
</tr>
<tr>
<td>1972-1973</td>
<td>5</td>
<td>8</td>
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<td>1973-1974</td>
<td>4</td>
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</tr>
<tr>
<td>1974-1975</td>
<td>3</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>1975-1976</td>
<td>4</td>
<td>9</td>
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<td><strong>37</strong></td>
<td><strong>72</strong></td>
<td><strong>109</strong></td>
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Estimated total cost to outside grants $55,500.00 $349,000.00 $404,500.00
Appendix 3

Outside grants and contracts awarded to K. Keil as Principal Investigator in
the Institute of Meteoritics since 1968.

1968 - 1969

1. Research contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of the returned lunar sample". Duration: February 1, 1969-July 31, 1969. $41,940.00

2. Research contract with NASA Goddard Space Flight Center, Goddard Space Flight Center, Greenbelt, Maryland, entitled "Preparation of standards for electron microprobe analysis". Duration: March 14-September 14, 1969. $4,416.00

3. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts". Duration: April 15, 1969 to September 15, 1970. $14,403.00

4. Grant from UNM Research Allocations Committee, entitled "Mineralogy, petrology, and chemistry of the Burdett, Kansas, stone meteorite". Duration: November 7, 1969 to June 30, 1969. $500.00

5. Laser beam microprobe, Moseley X-Y recorder, several strip-chart recorders, and other equipment was brought from NASA Ames Research Center to UNM for work on meteorites and rocks. Estimated value of equipment. $42,000.00

Total grants and equipment in effect in 1968-1969. $103,259.00
6. Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". $ 88,490.00

7. Grant from NASA Headquarters via University of California, Los Angeles, entitled "Mineralogy and petrology of Type II and III carbonaceous chondrites". $ 3,000.00

8. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of the Crab Nebula". $ 4,800.00

9. Research contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Study of microparticles by electron microprobe and x-ray techniques". $ 14,632.00

10. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of collisionless damping". $ 5,200.00

Total grants and contracts in effect in 1969-1970: $ 116,122.00

1970 - 1971

11. Research Contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". $ 46,550.00

12. Amendment to cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts". $ 840.00
13. Research contract with NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of the returned lunar samples". $ 28,500.00

14. Research Grant from NASA Headquarters via the University of California, Los Angeles, California, entitled "Mineralogical and chemical study of carbonaceous chondrites". $ 3,500.00

15. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe and laser microprobe study of Apollo 14 to 17 returned lunar samples". Duration: Feb. 1, 1971 - Jan. 31, 1974. $ 140,000.00

16. Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Preparation of thin sections and x-ray patterns of micron-sized refractory spherules". Duration: June 1, 1971 - Sept. 31, 1971. $ 3,000.00

17. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy and chemistry of polymict-brecciated stone meteorites". Duration: June 1, 1971 - May 30, 1974. $ 88,150.00

18. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Mineralogy and petrology of Hawaiian basalts". Duration: June 1, 1971 - May 31, 1972. $ 8,400.00

19. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled "Study of collisionless damping". Duration: June 1, 1971 - May 31, 1972. $ 5,600.00

Total grants and contracts in effect in 1970-1971: $ 324,540.00
20. Research Grant from NASA Headquarters, Washington, D.C., via University of California, Los Angeles, California entitled "Carbonaceous chondrites: Their mineralogy and petrology."
Duration July 1, 1971 - June 30, 1972. $ 3,000.00

Duration: October 1, 1971 - June 30, 1972. $ 6,200.00

22. Cooperative working agreement with NASA Ames Research Center, Moffett Field, California, entitled 'On mass loss from RSO's; galactic nuclei, and early type stars; cyclotron and strong Landau damping in relativistic plasma."
Duration: July 1, 1972 - June 30, 1973 $ 5,600.00

23. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples".
Duration: February 1, 1972 - January 31, 1972. $ 147,600.00

Duration: June 1, 1972 - May 31, 1975 $ 130,000.00

25. Research Grant from the National Science Foundation entitled "Petrologic study of ultramafic inclusions, San Carlos, Arizona". (M. Prinz, P.I.) $ 10,600.00
Total grants and contracts in effect in 1971-1972:

1972 - 1973

26. Research Contract with Sandia Corporation, Albuquerque, New Mexico entitled "Preparation of thin sections and x-ray diffraction patterns of micron-sized refractory spherules".
Duration: July 1, 1972 - June 30, 1973. $ 6,077.00

Duration: July 1, 1972 - March 31, 1977. $ 75,464.00

28. Research Grant from NASA Headquarters via the University of California, Los Angeles, California, entitled "Mineralogical and chemical study of carbonaceous chondrites".
Duration: July 1, 1972 - June 30, 1973. $ 3,000.00

29. Research Grant from NASA Manned Spacecraft Center, Houston, Texas entitled "Electron microprobe study of returned lunar samples".
Duration: February 1, 1972 - January 31, 1973 $ 1,975.00

30. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe study of returned lunar samples".
Duration: February 1, 1972-January 31, 1973. $ 170,200.00
31. Research Grant from NASA Ames Research Center, Moffett Field, California, entitled "Physical models of quasi-stellar objects; relativistic effects in wave propagation and damping in relativistic plasmas".
Duration: June 30, 1973 - June 30, 1974. $ 5,600.00

32. Research Grant from NASA Headquarters, Washington, D.C. entitled "Mineralogy and chemistry of polymict-brecciated stone meteorites."
Duration: June 1, 1973 - May 31, 1976. $ 87,693.00
Total grants and contracts in effect in 1972-1973. $ 350,009.00

1973 1974

33. Research Grant from NASA Headquarters, via the University of California, entitled "Mineralogical and petrological study of carbonaceous lithic fragments in ordinary chondrites."
Duration: July 1, 1973 - June 30, 1974 $ 3,000.00

34. Research Contract with Sandia Corporation, Albuquerque, New Mexico, entitled "Preparation of thin sections and electron microprobe, x-ray diffraction and ion microprobe analyses of micron-sized spherules of refractory matrices".
Duration: July 1, 1973 - June 30, 1974. $ 6,184.00

35. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples".
Duration: February 1, 1974 - January 31, 1977 $ 165,436.00
36. Research Grant from NASA Johnson Space Center, Houston, Texas, entitled "Electron microprobe study of returned lunar samples".
Duration: February 1, 1974 - January 31, 1975 $ 1,350.00

Total grants and contracts in effect in 1973-1974. $ 175,970.00

1974 -1975

37. Research Grant from NASA Ames Research Center, Moffett Field, California, entitled "Variability of quasi-stellar objects and galaxies; relativistic effects in wave propagation and damping in relativistic plasmas".
Duration: July 1, 1974 - June 30, 1975 $ 6,250.00

38. Amendment to No. 37 $ 453.00

Duration June 1, 1974 - May 31, 1977 $ 91,475.00

40. Research Grant from NASA Headquarters, Washington, D.C. entitled "Mineralogy, petrology and chemistry of brecciated stone meteorites: Impact and igneous histories of meteorite parent bodies".
Duration: June 1, 1975 - February 29, 1976. $ 78,700.00
Total grants and contracts in effect in 1974-1975 $ 176,878.00

1975 - 1976

41. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites".
Duration: March 1, 1976 -Feb. 28, 1979. $ 153,490.00
42. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites".
Duration: March 1, 1976 - Feb. 28, 1978  $ 67,041.00

43. Research Grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled: "Electron microprobe analysis of returned lunar samples".
Duration: March 1, 1976 - Jan. 31, 1979.  $ 184,772.00

Total grants and contracts in effect in 1975-1976:
1976 - 1977  $ 405,303.00

44. Research grant from NASA Langley Research Center Hampton, Virginia, entitled: "x-ray fluorescence Analysis of Martian soil via the Viking x-ray fluorescence spectrometer".
Duration: April 1, 1977 - June 30, 1979  $ 36,000.00

Duration: March 1, 1977 - Feb. 28, 1980.  $ 153,380.00

46. Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples."
Total grants and contracts in effect in 1975-1976.
1977 - 1978  $ 374,928.00

47. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Technical services with steam -
explosion experimental program".


48. Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Mineralogy, petrology and chemistry of breccias, mare basalts and cores".

49. Research contract with Sandia Laboratories, Albuquerque, N.M. entitled "Preparation of compressed pellets".
Duration: May 4, 1978 - Sept. 1, 1978. $ 4,194.00

50. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Particle size analyses of powdered oxide samples".
Duration: March 1, 1978 - Sept. 30, 1978. $ 3,519.00

51. Research contract with Sandia Laboratories, Albuquerque, N.M., entitled "Shale and tuff in Nevada as potential media for disposal of high-level nuclear waste".
Duration: Dec. 1977 - Sept. 30, 1978. $ 49,000.00

52. Research grant from NASA Headquarters, Washington, D.C., entitled "The formation and evolution of stony meteorites."
Duration: March 1, 1978 - Feb. 28, 1981. $ 145,597.00

Total grants and contracts in effect in 1977 - 1978: $ 394,017.00

Thus, since 1968, outside grant and contract funds awarded amount to $2,724,026.00.
Appendix 4

Dissertations and theses in the Institute of Meteoritics, with degrees in Geology, since 1968.

DISSERTATIONS


   In progress


THESES


   In progress

7. S. Wentworth: Mineralogy, petrology and chemistry of highlands fragments in the Apollo 17 deep drill core (\textasciitilde{} 1979).


Appendix 5

Publications of the Institute of Meteoritics since 1968.

Scientific articles published in major national and international journals; scientific publications published by the Institute of Meteoritics; as well as books. Note: names of student co-authors are underlined.


57. E. Dowty, M. Prinz, and K. Keil: Anorthosite in the Apollo 15 rake sample from Spur Crater. In "The Apollo 15 Lunar Samples" (eds. J.W. Chamberlain...


89. R. Warner and W.C. Luth: Two-phase data for the join monticellite (CaMgSiO$_4$) forsterite (Mg$_2$SiO$_4$); experimental results and numerical analysis. Amer. Mineral. 58, 998-1008, 1973.


156. R.D. Warner, G.J. Taylor, and K. Keil: Petrology of breccias from
Apollo 17 rake samples. In Lunar Science VIII, The Lunar Science Institute,


Kramer Creek, Colorado Meteorite: A new L4 chondrite. Meteoritics 12,
95-107, 1977.


160. M. Prinz, K. Keil, P.F. Hlava, J.L. Berkley, C.B. Gomes, and W.S. Curvello:
Studies of Brazilian meteorites III. Origin and history of the Angra

161. R.V. Fodor, J.W. Husler, and N. Kumar: Petrology of volcanic rocks from
an aseismic rise: Implications for the origin of the Rio Grande rise,

162. R.J. Drozd, C.J. Morgan, F.A. Podosek, G. Poupeau, J.S. Shirck, and

163. F.A. Podosek, J.S. Shirck, and G.J. Taylor: 244Pu geochemistry and
geochronology. Lunar Science VIII, Lunar Science Institute, Houston,

164. J.L. Gooding and D.W. Muenow: Experimental vaporization of the Holbrook

165. K. Perch, Nielsen, P.R. Supko, A. Boersma, R.L. Carlson, M.G. Dinkelman,
R.V. Fodor, N. Kumar, F. McCoy, J. Thiede, and H.B. Zimmerman: Site 355:


Appendix 6

Publications of the Institute of Meteoritics since 1968

Published abstracts of talks presented at national and international scientific meetings. Note: the names of student co-authors are underlined.


60. M. Prinz, K. Keil, and J.A. Green; Mineralogy and petrology of some ultramafic and mafic dredge samples from the Equatorial Mid-Atlantic Ridge. Conf. on 'Nature of the Ocean Crust', La Jolla, Calif., 1975.


681


Translations from French

These translations are available from the National Speleological Society, Washington, D.C.

1. The physico-chemical evolution of moon-milk. R. Bernasconi, ATTI del Symposium Internazionale di Speleologia, 1960 (W.L. Mansker)

2. Actual status of the question of moonmilk. B. Geze, 1956 (W.L. Mansker)

3. Study of moonmilk from caves of Cambodia. C. Jatou (W.L. Mansker)

Appendix 7

Meetings and professional papers by members of the Institute of Meteoritics since 1968.

Klaus Keil, Director

1. Annual Meeting of the Meteoritical Society, Cambridge, MA, October 7-11, 1968, Presented two papers:
   a) Mineral composition and petrology of silicate inclusions in iron meteorites.
   b) Chemistry of chromite in non-chondritic meteorites.


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<tr>
<th>No.</th>
<th>Event</th>
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<tr>
<td>12</td>
<td>Series of three (3) lectures at Sandia Laboratories, Albuquerque, NM, on &quot;meteorites and the Moon&quot;, March 30 - April 1, 1970.</td>
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<tr>
<td>14</td>
<td>Eleven (11) lectures given as part of lecture tour in Europe (&quot;Scientific results of the Apollo program&quot;), England, Switzerland, and West Germany, April 6-26, 1970.</td>
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<td>17</td>
<td>American Chemical Society, New Mexico Chapter, Los Alamos, NM. Talk on &quot;Apollo 11 and 12: History and origin of the Moon&quot;, May 15, 1970.</td>
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31. New Mexico Highlands University, Las Vegas, NM. Two talks as Sigma Xi lecturer on "Scientific results of the Apollo program", and "Geology of the Moon", March 5, 1970.


33. 28th Annual Meeting of the Electron Microscopy Society of America, Houston, TX. October 5-8, 1970. Presented invited paper on "Electron microprobe analysis of returned lunar samples".

35. Annual meeting of the New Mexico Mining Association and the Southwest International Mining Association, Carlsbad, NM. October 22-24, 1970. Presented invited talk on "Significance of Apollo 11 and 12 rocks to hypotheses on the origin of the Moon".


38. Apollo 12 Lunar Science Conference, Houston, TX, January 11-14, 1971. Presented paper on "Lithic fragments and glasses in Apollo 12".


40. Annual Meeting of the Southwest Branch of AAAS and the Arizona Academy of Sciences. Presented invited Powell-Memorial lecture on "Origin and history of the Moon".


44. Department of Physics, University of New Mexico, October 8, 1971. 
   Presented talk on "The earth's Moon: Origin and History."
45. 21 Club, University of New Mexico, October 18, 1971. "Apollo rocks and 
   implications."
46. Annual meeting of the Geological Society of America, Washington, D.C., 
   November 1-3, 1971. Presented talk on "Lithic fragments, glasses, and 
   chondrules in Luna 16 samples." Co-author on two talks: "Zirkelite, a 
   lunar uranium-bearing phase," and "Spinels and the petrogenesis of lunar 
   rocks."
47. American Association of Aeronautical Engineers, Albuquerque, NM, November 11, 
   1971. Talk on "Lunar rocks and their origin."
48. New Mexico Paving Conference, December 9, 1971. Talk on "Lunar rocks and 
   their origin."
49. Cordilleran Section of the Geological Society of America, Honolulu, Hawaii, 
   March 29 - April 1, 1972. Presented talk on "Mineral chemistry of vol-
   canic rocks from Maui, Hawaii: Feldspar." and co-author on a paper entitled 
   "Mineral chemistry of volcanic rocks from Maui, Hawaii: Olivines ."
50. Third Lunar Science Conference, Houston, TX, January 10-14, 1972. Pre-
   sented talk on "A chondrite of lunar origin: Textures, lithic fragments, 
   glasses, and chondrules."
51. Alumni Association, University of New Mexico, Albuquerque, NM, February 15, 
52. NASA Ames Research Center, Moffett Field, CA, April 30, 1972. Presented 
   talk on "Synthetic, lunar, and meteorite chondrules."
53. University of California, La Jolla, May 2, 1972. Presented talk on 
   "Synthetic, lunar, and meteoritic chondrules."


56. Department of Geology and Center for Meteorite Studies, Arizona State University, Tempe, AZ, October 19-20, 1972. Presented talk on "Synthetic, lunar, and meteoritic chondrules."


59. Annual Meeting, Meteoritical Society, Chicago, IL, November 16-18, 1972. Co-author on four talks entitled "Composition and origin of glasses and chondrules in Apollo 15 rake samples from Spur Crater." "Carbonaceous and non-carbonaceous lithic inclusions in the Plainview, Tx, chondrite;" "(Ti,Fe,Cr) \(3+x\) \(S_4\), a new mineral in the Bustee enstatite achondrite;" and "The origin of chondrules: Experimental investigation of metastable liquid silicates."


62. Fourth Lunar Science Conference, Houston, TX, March 4-8, 1973. Talks on "Chemistry, mineralogy, and petrology of mare basalts from Apollo 15 rake samples" (with E. Dowty and M. Prinz), and "Ion microprobe study of high-alumina basaltic glasses" (with M. Prinz, E. Dowty, C.A. Andersen, and J. C. Hinthorne).


65. New Mexico Highlands University, Las Vegas, NM, March 24, 1973. Talk on "What have we learned from the Apollo Program?"


67. Industrial Conference, Department of Geology, University of New Mexico, Albuquerque, NM, March 31, 1973. Talk on "Electron microprobe analysis and application."


69. Sigma Xi, Banquet Speaker, Nacodogches, TX, April 11, 1973. Talk on "The geology of Moon and Mars."


80. Annual Meeting, Meteoritical Society, Davos, Switzerland, August 27 - September 2, 1973. Talks on "Composition and origin of LL-group chondrites," (with R. V. Fodor) and "Composition and origin of L- and H-group chondrites" (with R. V. Fodor).

81. Alumni Association, University of New Mexico, Roswell, NM, September 8, 1973. Talk on "The exploration of Moon and Mars."


84. U.S. National Committee for Geochemistry, National Academy of Sciences Semi-annual meeting, Dallas, TX, November 9-10, 1973.


90. Fifth Lunar Science Conference, Lunar Science Institute, Houston, TX, March 18-22, 1974. Co-author talk on "Crystalline rocks from Apollo 16 rake samples."

91. Annual meeting of the Cordilleran Section, Geological Society of America, Las Vegas, NV, March 29 - April 1, 1974. Co-author of talk on "Composition and origin of ultramafic nodules and megacrysts in rhyodacite from Oahu, Hawaii."

92. Meeting of the U.S. National Committee for Geochemistry, Washington, D.C. April 7, 1974.


94. Viking Inorganic Chemical Analysis Team Meeting, Denver, CO, April 11-12, 1974.

95. Lunar Sample Analysis Planning Team Meeting (LSAPT), Johnson Space Center, Houston, TX, April 21-28, 1974.

97. Photographers of the Southwest, Santa Fe, NM, May 14-16, 1974. Talk on "To the Moon and On to Mars."

98. University of California, La Jolla, CA, June 25-29, 1974. Talk on "Breciated chondrites, lunar breccias, and the origin and history of parent meteorite bodies."


100. Lunar Sample Analysis Planning Team Meeting (ISAPT), Johnson Space Center, Houston, TX, July 16-20, 1974.

101. Lunar Sample Analysis Planning Team Meeting (ISAPT), Johnson Space Center, Houston, TX, September 3-9, 1974.

102. Meeting of the International Mineralogical Association, Regensburg, West-Germany, September 15-21, 1974. Talk on "Origin and significance of lunar glasses."

103. Lunar Sample Analysis Planning Team Meeting (ISAPT), Johnson Space Center, Houston, TX, October 8-14, 1974.

104. Series of 25 lectures on "The origin of the solar system," Department of Geosciences, University of São Paulo, Brazil, October 21 - November 15, 1974.

105. Meeting of Geological Society of Brazil, Porto Alegre, Brazil, October 28 - November 1, 1974. Invited talk on "The geology of the Moon."

106. Public lecture on "To the moon and on to Mars." São Paulo, Brazil, November 13, 1974.


109. Chemistry Department, University of California, La Jolla, CA, December 3, 1974. Talk on "Achondrites."

110. Lunar Sample Analysis Planning Team (LSAPT), Johnson Space Center, Houston, TX, December 4-9, 1974.

111. Chemistry Department, University of California, La Jolla, CA, December 11, 1974. Talk on "Lunar Breccias."

112. Chemistry Department, University of California, La Jolla, California, December 18, 1974. Talk on "Ca-Al-rich inclusions in Type II and HL-group chondrites."


114. Lunar Sample Analysis Planning Team Meeting (LSAPT), NASA John Space Center, Houston, TX, January 23-27, 1975.


117. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, March 6, March 21-23, 1975.


121. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, May 15-19, 1975.


123. Facilities Subcommittee meeting, LSAPT, NASA Johnson Space Center, Houston, TX, May 22-25, 1975.

124. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX. June 24 - June 30, 1975.

125. Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, Houston, TX, August 23-24, 1975.

126. Lunar Sample Analysis Planning Team (LSAPT) Meeting, NASA Johnson Space Center, Houston, TX, September 5-7, 1975.


128. Facilities subcommittee meeting, LSAPT, NASA Johnson Space Center, Houston, TX, September 27-28, 1975.


130. Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, Houston, TX, October 23-26, 1975.


133. Facilities subcommittee meeting (LSAPT), NASA Johnson Space Center, Houston, TX, November 21-23, 1975.


136. Facilities subcommittee meeting (LSAPT), NASA Johnson Space Center, Houston, TX, December 12-15, 1975.


139. San Antonio, TX. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), February 5, 1976.

140. Houston, TX. Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, February 6-8, 1976.


142. Houston, TX. Chaired Facilities Subcommittee meeting, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, TX, March 12-14, 1976.

143. Houston, TX. Seventh Annual Lunar Science Conference, NASA Johnson Space Center, Houston, TX, March 15-18, 1976.

145. Houston, TX. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, L.B. Johnson Space Center, Houston, TX, April 29 - May 2, 1976.


150. Houston, TX. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, September 8-12, 1976.


153. La Jolla, CA. Presented talk on "Geochemistry of Mars: Preliminary results of the Viking X-ray fluorescence spectrometer," Department of Chemistry, University of California, September 30, 1976.

154. Albuquerque, NM. Presented talk in Popejoy Hall, University of New Mexico, on "The story of Viking: The U.S. Landings on Mars". This talk was attended by 1,700 people! October 13, 1976.

155. Bethlehem, PA. Co-authored three talks at the Meteoritical Society Meeting Lehigh University, entitled "Notes on the chondrites from Northeastern New
Mexico," "The Shaw meteorite: Evidence for an igneous origin", and "Studies of Brazilian meteorites III. Origin and history of the Angra dos Reis achondrite". Also, organized and chaired session on the Angra dos Reis Consortium and gave introductory address.


157. Quro Preto, Minas Gerais, Brazil. Participated as invited speaker at the meeting of the Geological Society of Brazil and presented an invited lecture on "The Geology of Mars: The U.S. Viking Mission". Furthermore, I presented nine (9) talks on Brazilian meteorites, entitled, "Estudo mineralogico, petrologico e quimico de meteoritos Brasileiros: revisao de um programa des pesquisa", "Evidencias de metamorfismo de choque no meteorito Paranaiba", "O augita achondrito Angra dos Reis e sua importancia para a origem e historia de seu corpo parental", "Meteorito Sao Jose do Rio Preto", "Meteorito Avanhandava", "Meteorito Conquista", "Meteorito Uberaba", "Meteorito Patrimonio", and "Meteorito Sete Lagoas".

158. São Paulo, Brazil. Taught course on "Meteoritics" in the Graduate school of the Department of Geology, University of São Paulo, November 2-30, 1976.


160. Salvadore, Bahia, Brazil. Presented talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Departments of Geology and Chemistry, University of Bahia, as well as a popular talk on "The U.S. landings on Mars" before the Salvadore Rotary Club, December 4-9, 1976.


168. Taos, NM. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.

169. São Paulo, Brazil. Presented talk on "Meteorites: Their significance for the origin of the planets and their bearing on hypotheses on the earth's interior", Department of Astronomy and Astrophysics, University of Sao Paulo, Brazil, 1977.

170. Vancouver, British Columbia, Canada. Presented invited keynote address on "Evolution of the planets: Evidence from meteorites and lunar samples", ".
University of British Columbia, 1977.


173. Santa Fe, NM. Presented talk on "Composition of the surface of Mars" to Santa Fe Geological Society, February 8, 1978.


175. Houston, TX. Attended Lunar and Planetary Science Conference and co-authored eight (8) papers on "Ureilites: Origin as related magmatic cumulates", "Martian surface materials: sample chemical differences and the trace element problem", "Search for pieces of the ancient lunar crust: A study of clasts in rock 67915", "Chemical trends among VLT mare basalts and glasses: Clues to the nature of their parent magmas", "Petrology of Apollo 17 deep drill core II. Agglutinates as recorders of fossil soil compositions", "Petrology of recrystallized A\(\mathrm{T}\) rocks from Apollo 17 rake samples: 72559 (anorthositic troctolite) and 78527 (norite)", "Clasts in breccias 77517 and 77538: Evidence for deep-seated and immiscible melt origins", and "Green glassy rock 78526: An impact melt of very low - Ti mare basalt?".


Martin Prinz, Senior Research Associate


5. Annual meeting of the Geological Society of America, Milwaukee, WI, November 11-13, 1970. Presented talk on "Composition and origin of Apollo 11 lithic fragments and glasses".


7. Apollo 12 Lunar Science Conference, Houston, TX, January 11-14, 1971. Co-author on a paper on "Lithic fragments and glasses in Apollo 12".


13. Fourth Lunar Science Conference, Houston, TX, March 4-8, 1973. Co-author on two talks entitled "Chemistry, mineralogy, and petrology of mare basalts from Apollo 15 rake samples." and "Ion microprobe study of high-alumina basaltic glasses."


17. Fifth Lunar Science Conference, Houston, TX. Co-author on paper entitled "Apollo 16 igneous rocks from the rake samples."


20. Gave lectures on the moon, meteorites, and terrestrial rocks during study assignment to Max-Planck Institute for Nuclear Physics, Heidelberg, West-Germany, January 15 - August 15, 1975, at the following institutions:
   - Max Planck Institute for Nuclear Physics, Heidelberg.
   - Department of Mineralogy, University of Heidelberg.
   - Max-Planck Institute for Chemistry, Mainz.
   - Department of Mineralogy, University of Göttingen.
   - Department of Petrology, University of Braunschweig.
   - University of Vienna, Austria.
   - Austrian Mineralogical Society, Vienna, Austria.
   - German Petrology Discussion Group, Annual Meeting, Heidelberg, West-Germany.

G. J. Taylor, Senior Research Associate


Eric Dowty, Post-doctoral Fellow

1. Third Lunar Science Conference, Houston, TX, January 10-13, 1972.


R. Fodor, Post-doctoral Fellow


4. Travel to Europe, studying meteorite collections, and to present talk at the Meteoritical Society Meeting, Davos, Switzerland, August-September, 1973.


Richard D. Warner, Post-doctoral Fellow

1. Fifth Lunar Science Conference, Johnson Space Center, Houston, TX. March 18-22, 1974.


5. Houston, TX. Attended Eighth Lunar Science Conference, Johnson Space Center, and presented talk on "Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation". March 14-18, 1977.


John Berkley, Post-doctoral Fellow


2. Corvallis, OR. Oregon State University, October 15 - December 8, 1975.


Gero Kurat, Post-doctoral Fellow


D. Lange, Staff Scientist


George Conrad, Electron Microprobe Specialist

F. Busche, Graduate Research Assistant


11. New Mexico Nuclear Engineering Society, Albuquerque, NM, May 12, 1972. Presented talk on "Apollo rocks and the origin of the Moon"

H. Gassaway Brown, Graduate Research Assistant


J. L. Gooding, Graduate Research Assistant

3. Socorro, NM. Invited speaker at Sigma Xi panel discussion on "Extraterrestrial life" at New Mexico Institute of Mining and Technology, October, 1977.

Paul Hlava, Graduate Research Assistant


William Mansker, Graduate Research Assistant


H. N. Planner, Graduate Research Assistant


Steven Sibray, Graduate Research Assistant


2. Rocky Mountain Section Meeting, Geological Society of America, Flagstaff, AZ.

3. Attended Base Metals and Flourspar Deposits Conference, June, 1974. Socorro, NM.

R. Skaggs, Graduate Research Assistant


Terry Steinborn, Graduate Research Assistant


R. G. Warren, Graduate Research Assistant


Georgianna Honea, Undergraduate Research Assistant

1. Attended Geological Society of America Meeting, Flagstaff, AZ

Since 1968, members of the Institute of Meteoritics have participated in 269 meetings and presented papers at most of them. Of these, 35 were papers presented by students (at meetings attended by students).
Appendix 8

U.S. and foreign visiting scholars in the Institute of Meteoritics since 1968.

These U.S. and foreign visiting scholars came to UNM for periods ranging from days up to 1 year, for the purpose of research and lecturing. Note that only outside, non-UNM funds were used to attract these scholars to the Institute.

1. U.S. visiting scholars at the Institute of Meteoritics since 1968

1968

- Dr. Milton Blander
  North American Rockwell Science Center,
  Thousands Oaks, California

- Dr. Arch M. Reid
  Geological Research Division
  University of California, San Diego
  La Jolla, California

- Dr. Kurt Fredriksson
  Smithsonian Institution
  U.S. National Museum
  Washington, D.C.

1969

- Dr. Milton Blander
  North American Rockwell Science Center,
  Thousand Oaks, California

- Dr. Theodore E. Bunch
  Space Sciences Division
  NASA Ames Research Center
  Moffett Field, California

- Professor Truman P. Kohman
  Department of Chemistry
  Carnegie-Mellon University
  Pittsburgh, Pennsylvania

- Dr. K.G. Snetsinger
  Space Science Division
  NASA Ames Research Center
  Moffett Field, California.
1970

Mr. Tom Teska
Planetary Sciences Laboratory
University of Arizona
Tucson, Arizona

Dr. C.E. Nehru
Department of Geology
Brooklyn College
New York, New York

Dr. C.P. Sonett
Space Sciences Division
NASA Ames Research Center
Moffett Field, California

Prof. H.E. Suess
Chemistry Department
University of California
La Jolla, California

1971

Dr. M. Blander
North American Rockwell Science Center
Thousand Oaks, California

Dr. D. Fisher
Department of Oceanography
University of Miami
Miami, Florida

Prof. Carleton B. Moore
Center for Meteorite Research
Arizona State University
Tempe, Arizona

1972

Dr. Howard Wilshire
U.S. Geological Survey
Menlo Park, California

Prof. G. Kuiper
Planetary Sciences Department
University of Arizona
Tucson, Arizona

Dr. C.E. Nehru
Dept. of Geology
Brooklyn College
Brooklyn, New York
1973

Dr. Harrison H. Schmitt, Science Astronaut
L.B. Johnson Space Center
Houston, Texas

Prof. Cornelis Klein
Dept. of Mineralogy
Indiana University
Bloomington, Indiana

Dr. T.E. Bunch
Space Sciences Division
NASA Ames Research Center
Moffett Field, California

Dr. Peter R. Buseck
Department of Chemistry
Arizona State University
Tempe, Arizona

1974

Dr. C.E. Nehru
Department of Geology
Brooklyn College
Brooklyn, New York

Dr. A. Boettcher
Department of Mineralogy
Pennsylvania State University
College Park, Pennsylvania

Dr. John Wasson
Chemistry Department
University of California
Los Angeles, California

Dr. H.S. Yoder
Carnegie Institution
Geophysical Laboratory
Washington, D.C.

Dr. M. Blander
Argonne National Laboratory
Argonne, Illinois

Dr. Eric Lifshin
General Electric Research Laboratories
Schenectady, New York

Dr. Bevan French
National Science Foundation
Washington, D.C.
1975

Dr. C.E. Nehru
Department of Geology
Brooklyn College
Brooklyn, New York

Dr. L. Haskin
L.B. Johnson Space Center
NASA
Houston, Texas

Dr. J. Soffen
NASA Langley Research Center
Hampton, Virginia

Dr. J. Peaupoulu
Washington University
McDonnell Center for the Space Sciences
St. Louis, Missouri

1976

Dr. Laurel Wilkening,
Dept. of Planetology,
University of Arizona
Tucson, Arizona

Prof. W.C. Luth
Geology Dept.
Stanford University
Stanford, California

Dr. G.J. Taylor
Dept. of Geology
Washington University
St. Louis, Missouri

Prof. Hans E. Suess
Chemistry Department
University of California
La Jolla, California

Dr. T.E. Bunch
Space Sciences Division
NASA Ames Research Center
Moffett Field, Calif.

Dr. James Hinthorne,
Applied Research Laboratories
Goleta, California
Dr. G.W. Lugmair,
Chemistry Dept.
University of California
La Jolla, Calif.

Dr. Robin Brett
U.S. Geological Survey
Reston, Virginia

Dr. Odette James
U.S. Geological Survey,
Reston, Virginia

Dr. Buford Price
Physics Dept.
University of California
Berkley, Calif.

Mr. John Harris
NASA L.B. Johnson Space Center
Houston, Texas

Dr. David Curtis,
Los Alamos Scientific Laboratory
Los Alamos, NM

Dr. C.E. Nehru
Dept. of Geology,
Brooklyn College
New York, N.Y.

Dr. Ross Heath
Dept. of Oceanography
University of Rhode Island
Kingston, Rhode Island

Dr. Milton Blander
Argonne National Laboratory
Argonne, Illinois

Dr. Usman Sayeed
Florida International University
Miami, Florida

1977

Dr. C.H. Simonds
Lunar Science Institute
Houston, Texas

Dr. K.F.J. Heinrich
Natl. Bureau of Standards
Washington, D.C.
Dr. Martin Prinz  
Dept. of Mineral Sciences  
American Museum of Natural History  
New York, New York

Dr. M. Blander  
Argonne Natl. Laboratory  
Argonne, Ill.

Dr. Usman Sayeed  
Florida International University  
Miami, Florida

Dr. Lee Rudy  
University of California  
La Jolla, California

Dr. James Gunnerson  
Nebraska State Museum  
Lincoln, Neb.

Dr. J. Saxena  
Dept. of Geology  
Brooklyn College  
Brooklyn, New York

Dr. Robert Clementidis  
Dept. of Mineral Sciences  
American Museum of Natural History  
New York, New York

Dr. Robert Dietz  
Dept. of Geology  
Arizona State University  
Tempe, Arizona

Dr. C.E. Nehru  
Dept. of Geology  
Brooklyn College  
Brooklyn, N.Y.

Dr. J. McSween  
Dept. of Geology  
University of Tennessee  
Knoxville, Tenn.

Dr. G. Dixon  
U.S. Geological Survey  
Denver, Col.
Mr. F. Maldanado  
U.S. Geological Survey  
Denver, Colorado  
1978

Dr. C.E. Nehru  
Dept. of Geology  
Brooklyn College  
Brooklyn, New York

Dr. E. Simpson  
U.S. Geological Survey  
Denver, Colorado.

Dr. Martin Prinz  
Dept. of Mineralogy  
American Museum of Natural History  
New York, N.Y.

Dr. David Joy  
Bell Laboratories  
Murray Hill, N.J.

2. Foreign visiting scholars at the Institute of Meteoritics since 1968

1968

Prof. Theodore Ernst  
Mineralogisches Institut der Universität  
Erlangen, Germany

Dr. A.A. Smales  
Atomic Research Establishment  
Harwell, England

Dr. Hans Voshage  
Max Planck Institut für Chemie  
Mainz/Rhein, West Germany

Prof. H. Wänke  
Max Planck Institut für Chemie  
Mainz/Rhein, West Germany

1970

Prof. M. O'Hara  
Grant Institute of Geology  
Edinburgh, Scotland
1971

Dr. A. Schreiber
Geological Survey
Hannover, West-Germany

Dr. Y.U. Frolov
Academy of Sciences, USSR
Moscow, USSR

Dr. Th. Weiser
Geological Survey
Hannover, West-Germany

Mr. Clive Feathers
South Africa Diamond Concern
Cape Town, South Africa

1972

Prof. S.R. Taylor
Department of Geology and Geophysics
Australian National University
Canberra, Australia

Prof. Howard Axon
Department of Metallurgy
Manchester University
Manchester, England

Dr. Dieter Stöffler
Department of Mineralogy and Petrology
University of Tübingen
Tübingen, West Germany

1973

Prof. David Green
Geology Department
Australian National University
Canberra, Australia

Prof. F. Freund
Mineralogy and Geochemistry Department
University of Cologn
Cologn, West-Germany

Prof. W. von Engelhardt
Department of Mineralogy
University of Tübingen
Tübingen, West-Germany
Dr. Peter Jakes
Czechoslovakian Geological Survey
Prague, Czech.

1974

Dr. Dieter Stöffler
Department of Mineralogy
University of Tübingen
Tübingen, West-Germany

Dr. D. Szimtenings
Gutenberg University
Mainz, West-Germany

Dr. Gero Kurat
Department of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

1975

Dr. Gero Kurat
Department of Mineralogy and Meteoritics
National Museum of Natural History
Vienna, Austria

Dr. W. Paar
Department of Mineralogy
University of Salzburg
Salzburg, Austria

Prof. Hans Korkish
Department of Analytical Chemistry
University of Vienna
Vienna, Austria

1976

Dr. Ahmed El Goresy
Max Planck Institute for Nuclear Chemistry
Heidelberg, West-Germany

Dr. Heinz Scharbert
Dept. of Petrology
University of Vienna
Vienna, Austria
Prof. C.B. Gomes  
Dept. of Mineralogy and Petrology  
University of São Paulo,  
São Paulo, Brazil

Prof. Ralph Kretz  
Dept. of Geology  
McGill University  
Ottawa, Canada

Dr. Gero Kurat,  
Dept of Mineralogy and Meteoritics  
National Museum of Natural History  
Vienna, Austria

Dr. A.R. Binder  
Dept. of Geophysics  
University of Kiel  
Kiel, West-Germany

Dr. Elisabeth Kirchner,  
Dept. of Mineralogy,  
University of Salzburg  
Salzburg, Austria

1977

Dr. Robert Hutchison,  
British Museum,  
London, England

Dr. H. Wakita  
University of Tokyo  
Tokyo, Japan

Dr. Nikolai Sobolev  
Institute of Geology  
Academy of Sciences of the USSR  
Siberian Branch  
Novosibirsk, USSR

1978

Dr. Celso B. Gomes  
Institute of Geosciences  
University of Sao Paulo  
Sao Paulo, Brazil

Dr. A. Kracher  
Dept. of Mineralogy and Meteoritics  
National Museum of Natural History  
Vienna, Austria
Since 1968, 66 U.S. and 35 foreign scholars have visited the Institute of Meteoritics for periods of days to one year for study, research, and seminars. Note that only outside grant moneys were used to attract these scholars to UNM.
Appendix 9

Professional travel of members of the Institute of Meteoritics since
1968

Klaus Keil, Director


8. La Jolla, California; University of California, July 19-22, 1969.


10. Houston, Texas; Manned Spacecraft Center, September 16-17, 1969.


12. Houston, Texas; Manned Spacecraft Center, Apollo 11 Conference, January 4-8, 1970.

14. Las Vegas, New Mexico, New Mexico Highlands University, Sigma Xi Speaker, March 5-6, 1970.


18. Switzerland (Zürich, Berne) and West-Germany (Augsburg, Hannover, Mainz, Bonn, Cologne); lecture tour, April 9-25, 1970.


20. Los Alamos, New Mexico; American Chemical Society, May 15, 1970.


23. Tokyo and Kyoto, Japan; meeting of the International Mineralogical Association (U.S. Representative on the Commission on Cosmic Mineralogy), with field trips to Mt. Fuji and the Nagatoro area, August 29 - September 10, 1970.


30. Santa Clara, California; First Plenary Conference with NASA Ames Research Center, Moffett Field, California, February 3-6, 1971.

31. Socorro, New Mexico; New Mexico Institute of Mining and Technology, March 17, 1971.

32. Phoenix, Arizona; Meeting of the Southwest Branch of the American Association for the Advancement of Science and the Arizona Academy of Sciences, April 22-24, 1971.

33. Islands of Maui, Kauai, and Oahu; field work, June 7 - July 10, 1971.


36. Washington, D.C., Meeting of the National Committee on Geochemistry of the National Academy of Sciences, November 1-3, 1971.

37. Houston, Texas; pick-up of Apollo 15 rocks and study of thin sections at the Lunar Receiving Laboratory; December 9-10, 1971.


40. Honolulu, Hawaii; Ann. Meeting, Cordilleran Section, Geological Society of America; March 29-April 1, 1972.

41. Moffett Field, California; talk on "Synthetic, lunar, and meteoritic chondrules;" April 30, 1972.

42. La Jolla, California; talk on "Synthetic, lunar, and meteoritic chondrules," May 2, 1972.
43. Petrified Forest; Flagstaff, San Francisco Volcanic Field, and Meteorite Crater; Field trip for students taking course on "Meteorites, the Moon, and the Origin of the Solar System;" May 22-25, 1972.

44. Islands of Molokai and Oahu, Hawaii; field work on volcanic rocks; June 13 - July 16, 1972.


46. Manned Spacecraft Center, Houston, Texas; preliminary examination of 151 Apollo 16 rake samples, July 30-August 4, 1972.

47. Martin Marietta Company, Denver, Colorado; Viking Inorganic Analysis Team Meeting, August 7-9, 1972.


53. Jet Propulsion Laboratory, Pasadena, California; Briefing for Viking Inorganic Analysis Team, October 25-26, 1972.


59. Hasler Research Center, Goleta, California; Ion microprobe work on meteorites, December 26-30, 1972.


61. Houston, Texas; Fourth Lunar Science Conference. Talks on "Chemistry mineralogy, and petrology of mare basalts from Apollo 15 rake samples" (with E. Dowty and M. Prinz), and "Ion microprobe study of high-alumina basaltic glasses" (with M. Prinz, E. Dowty, C.A. Andersen, and J.R. Hinthorne). March 4-8, 1973.


77. Roswell, New Mexico. Exhibition of lunar samples and talk on "The exploration of Moon and Mars". September 8, 1973.


91. Washington, D.C. Ann. Meeting of the American Geophysical Union. April 8-10, 1974


95. Santa Fe, New Mexico. Talk to Photographers of the Southwest. May 17, 1974.

96. La Jolla, California. Talk and research at University of California, Ocean Deep Drilling Project. June 25-29, 1974.

Sabbatical leave, fall semester, 1974. During this time, the following travel took place, including research away from UNM, presentation of lectures, participation in professional meetings, field work, public service on committees, etc. (items 97 to 113).


106. São Paulo, Brazil. Department of Geosciences, University of São Paulo, Brazil. Was invited to present 25 lectures on "The Origin of the Solar System" (Distinguished Visiting Professorship), assisted in their electron microprobe laboratory and gave lectures. October 17-November 15, 1974.


111. La Jolla, California. Presented three talks and worked on meteorites and lunar samples in the Dept. of Chemistry, University of California, La Jolla, California. November 30, 1974-January 15, 1975.


137. Pasadena, California, and Los Angeles, California. Visited California Institute of Technology and UCLA and organized joint consortium work on meteorites, December 29, 1975.


140. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT), NASA-Johnson Space Center, February 6-8, 1976.

141. Pasadena, California. Viking Flight to Mars, uplink training session,
Jet Propulsion Laboratory, February 26-March 1, 1976.


144. Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, April 12-14, 1976.


152. La Jolla, California. Gave talk on "Geochemistry of Mars: Preliminary results of the Viking x-ray fluorescence spectrometer", Dept. of Chemistry, University of California, Sept. 30, 1976.


155. São Paulo, Brazil. Research on Brazilian meteorites at the University of São Paulo, Brazil, Oct. 25-29, 1976.


157. São Paulo, Brazil. Research on Brazilian meteorites and class on "Meteoritics" at the University of São Paulo, Nov. 2-Nov. 30, 1976.


160. Salvador, Bahia, Brazil. Talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Department of Chemistry and Geology, University of Bahia, as well as a popular lecture on "The U.S. Landings on Mars" for the Salvador Branch Rotary Club, Dec. 4-9, 1976.

161. Recife, Pernambuco, Brazil. Lectured on "The origin and significance of meteorites" and "The geology of Mars; Results of the U.S. Viking Mission" in the Department of Geology, University of Pernambuco, as well as presented a popular talk on "The U.S. landings on Mars", Dec. 10-13, 1976.


178. Seattle, Washington. Attended Geological Society of America Annual Meeting and served as Citation Speaker to award the Roebling Medal of the Mineralogical Society of America to Prof. R. Castaing, University of Paris at Orsay, France. Nov. 7-8, 1977.


193. Taos, New Mexico. Gave talks on "Meteorites and their significance for hypotheses on the origin of the solar system" and "What next in space" to the UNM German Summer School (in German), June 29-30, 1978.

Martin Prinz, Senior Research Associate

1. Atlantic City, New Jersey; Geological Society of America, November 10-12, 1969.

2. Houston, Texas; Apollo 11 Lunar Science Conference, January 4-8, 1970.


5. Miami, Florida; Visit to Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, October 31-November 2, 1970.


10. Moffett Field, California; visit Space Science Division, NASA Ames Research Center, and conduct research, June 1-July 31, 1971.


18. Travel to Africa to attend First International Kimberlite Conference. Studied geological features in Kenya (African Rift Valley and associated volcanics), Tanzania (Ngorogoro caldera), South Africa and Lesotho (about 30 diamond-bearing kimberlite pipes, including two underground mines).

20. Travel to NASA Johnson Space Center, Houston, Texas, to study lunar samples for preparation of a catalogue and also to study lunar thin section collections.


G.J. Taylor, Senior Research Associate


Dave Lange, Staff scientist


2. Los Angeles, California, 37th Annual Meeting of the Meteoritical Society, UCLA, August 7-9, 1974.


Eric Dowty, Postdoctoral Fellow


R.V. Fodor, Postdoctoral Fellow

2. Tempe, Arizona; studied Nininger meteorite collection at Arizona State University; March 1972.
4. Kauai, Hawaii; Field work on volcanic rocks; April 2-10, 1972.


11. Travel to Europe, to visit and study meteorite collections in European Museums, and to present a talk at the Meteoritical Society Meeting, Davos, Switzerland, August-September, 1973.


R.D. Warner, Postdoctoral Fellow


J.L. Berkley, Postdoctoral Fellow


Gero Kurat, Postdoctoral Fellow


3. Southwest New Mexico; field trip with Prof. Kelley, April 1-4, 1971.


5. Moffett Field, California; visit Space Sciences Division, NASA Ames Research Center, May 24-June 1, 1971.

George Conrad, Electron Microprobe Specialist


H. Gassaway Brown, IV, Graduate Research Assistant

1. Travel via automobile to the University of Wisconsin, Madison; Cornell University, Ithaca, New York; and Baltimore, Maryland. August, 1973.


Fred Busche, Graduate Research Assistant


2. Santa Fe, New Mexico; Gem and Mineral Club, March 25, 1970.


5. San Carlos, Arizona; field trip to ultramafic rock locality, May 16, 1971.

6. Moffett Field, California; Research on lunar samples; June 1-August 1, 1971.


G.R. Huss, Graduate Research Assistant


J.L. Gooding, Graduate Research Assistant


4. Socorro, New Mexico. New Mexico Institute of Mining and Technology, Oct. 16, 1977. Invited speaker, Sigma Xi panel discussion on "Extraterrestrial life".


Gayle Lux, Graduate Research Assistant

1. New York, N.Y. New York Academy of Sciences Conf. on "expanding the role of Women in science", March 6-8, 1978.

W.L. Mansker, Graduate Research Assistant


H.N. Planner, Graduate Research Assistant


Steve Sibray, Graduate Research Assistant

1. Attended the Annual Meeting of the Geological Society of America, Dallas, Texas.

2. Attended the Rocky Mountain Section Meeting of the Geological Society of America, Flagstaff, Arizona, and participated in field trips to Hopi Buttes-Buell Park Diatremes.

Robert Skaggs, Graduate Research Assistant


Terry Steinborn, Graduate Research Assistant

1. Attended the Rocky Mountain Section Meeting of the Geological Society of America, Flagstaff, Arizona.


Richard Warren, Graduate Research Assistant


Dorothy Boyer, Undergraduate Research Assistant

1. Fort Stanton Cave: frequent trips for the purpose of studying the cave environment.

R. Cox, Undergraduate Research Assistant

1. Three-day field trip to Four Corners Region, to study petroleum production.

Georgianna Honea, Undergraduate Research Assistant


Total number of professional travel by members of the Institute of Meteoritics since 1968: 315. Note that the overwhelming majority of these professional travels to meeting etc. were financed by out-side grants and contracts.
Appendix 10

Other professional activities by members of the Institute of Meteoritics since 1968.

Klaus Keil, Director

1968 - 1969


Department of Chemistry, New Mexico Highlands University, Las Cruces, NM. Presented talk on "origin and significance of meteorites". May 25, 1969.

Initiated joint colloquium series between Sandia Laboratories and the Department of Geology and Institute of Meteoritics.


Reviewed papers for The American Mineralogist; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Reviewed two proposals submitted for funding to NASA.

1969 - 1970

Reviewed three (3) proposals submitted to NASA for funding.

Reviewed approximately twelve (12) papers for publication in the following journals: American Mineralogist, Geochimica et Cosmochimica Acta, Meteoritics, and Science.

Consultant, Sandia Laboratories, Albuquerque, NM.

Organized exhibition and presentation of results of Moon rocks for New Mexico State Legislators and public. Gave talk on "Apollo Program."

123
Organized exhibition of Moon rocks for Engineering Open House, UNM College of Engineering.

Several live and taped TV and radio appearances dealing with work on the returned lunar samples.

1970 - 1971

Reviewed two (2) scientific proposals submitted for funding to the National Science Foundation.

Reviewed three (3) scientific proposals submitted for funding to the National Aeronautics and Space Administration.


Consultant, Sandia Corporation, Albuquerque, NM.

Seven (7) taped and live television broadcasts and four (4) live radio shows dealing with the scientific results of the Apollo missions.

Trained Mr. Tom Teska, technician, University of Arizona, Tucson, Arizona, as a microprobe operator.

Dr. Th. Weiser, Geological Survey, Hannover, West-Germany, spent three (3) months in the Institute (on the expense of the West-German government) to study electron microprobe techniques.

Chairman of a meeting at UNM's Department of Geology and Institute of Meteoritics of the Group for the Analysis of Carbon Compounds in Carbonaceous Chondrites and Returned Lunar Samples.

Presented talk before the Optimist Club, Albuquerque, NM, concerning the Apollo program. (September 25, 1970).
Presented two (2) talks at the New Mexico Institute of Mining and Technology, Socorro, NM, concerning returned lunar samples. (March 17, 1971).

Presented a talk before the New Mexico Medical Association, Albuquerque, NM, (April 1, 1971), on "Origin of the Moon."

Presented two (2) talks at New Mexico Highlands University, entitled "Origin and history of the crust of the moon," and "Composition of deeper parts of the earth's crust." (May 16, 1971).

Presented three (3) talks at Highland High School, Albuquerque, NM, concerning the scientific aspects of the Apollo program (May 18, 1971).

1971 - 1972

Reviewed two (2) scientific proposals submitted for funding to the National Science Foundation.

Reviewed eight (8) scientific proposals submitted for funding to the National Aeronautics and Space Administration.

Reviewed fourteen (14) scientific articles submitted for publication in American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Consultant, Sandia Corporation, Albuquerque, NM.

Consultant, Nord Resources Corporation, Albuquerque, NM.

Eight (8) live and taped television broadcasts and four (4) live radio shows dealing with the scientific results of the Apollo missions.

Trained Dr. Th. Weiser, Geological Survey of Germany, in the use of the electron microprobe x-ray analyzer and data reduction by computer.

1972 - 1973

Reviewed one (1) scientific proposal submitted for funding to the National Science Foundation.
Reviewed one hundred and twenty-four (124) scientific proposals submitted for funding to the National Aeronautics and Space Administration.

Reviewed twenty-two (22) scientific articles submitted for publication in American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Consultant, Sandia Corporation, Albuquerque, NM.

Eight (8) live and taped television broadcasts and seven (7) live radio shows dealing with the scientific results of Apollo missions and the Viking Program to study Mars.

Trained Professor C. B. Sclar, Lehigh University, Bethlehem, Pennsylvania in the use of the electron microprobe (July 31 - August 10, 1972).

Trained Mr. Glenn Bauer, Honolulu Board of Water Supply, Honolulu, Hawaii, in the use of the electron microprobe (August 1 - 24, 1972).

Consortium leader, Mineralogy-Petrology, to organize and study in the U.S. the Luna 20 Lunar samples returned by the Russians.

Chaired the meeting of the Commission on Meteorites of the International Geological Congress, Montreal, Canada.

Chaired the meeting of the Commission on Cosmic Mineralogy of the International Mineralogical Association, Montreal, Canada.


Presented talk on "From Moon to Mars" to the Albuquerque Chapter, Mechanical Engineering Society, December 13, 1972.
1973 - 1974

Reviewed 138 proposals submitted to NASA for funding, via the Lunar Sample Analysis Panel.

Reviewed 38 proposals submitted to NASA for funding, via the Ad hoc Panel for Lunar Data Synthesis.


Consultant, Sandia Corporation, Albuquerque, NM.

Two live TV and 2 live radio appearances (30 minutes each), concerning the Apollo Program.

Chaired session at The Meteoritical Society Meeting, Davos, Switzerland.

Presented talk on "University response to national priorities: The U.S. Space Program," Seminar on Higher Education in the Americas, UNM, Albuquerque, NM.

Chaired session on "Characterization and evolution of the lunar crust" at the Fifth Lunar Science Conference, Houston, TX.

1974 - 1975

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed hundreds of lunar sample requests submitted by scientists to the Lunar Sample Analysis Planning Team.

Reviewed 16 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

Several taped and live TV and radio shows on the Apollo Program and The U.S. Viking Program.
1975 - 1976

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed six lunar sample proposals submitted to NASA for funding.

Reviewed 17 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

TV interview with Kathy Schroeder on the U.S. Viking Program, August 27, 1975.

TV interview with Mr. Wellington on the U.S. Viking Program.


1976 - 1977

Consultant, Sandia Laboratories, Albuquerque, NM.

Reviewed four lunar sample proposals submitted to NASA for funding.

Reviewed 14 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.


Several interviews with the Lobo, Albuquerque Journal and Albuquerque Tribune regarding U.S. Viking Mars Missions.
TV interview, channel 13, on U.S. Viking Mars Missions, October 11, 1977.
TV interview, channel 7, on U.S. Viking Mars Missions, October 12, 1977.
Leader of the Kenna Consortium.
Leader of the Angra dos Reis Consortium.
Hosted the Meeting of the Southwest Probe Users Group, April 21, 1977.

Martin Prinz, Senior Research Associate

1969 - 1970
Reviewed several proposals and articles submitted to the National Science Foundation, American Journal of Science, Geochimica et Cosmochimica Acta, and Journal of Geology.
TV appearance with K. Keil on "Project 7 Documentary" (Ken Dunnagan, host), dealing with results of Moon rock studies (August, 1969).
Became a member of the Meteoritical Society and the American Geophysical Union.

1970 - 1971
Presented talk at Department of Geology, Institute of Meteoritics Petrology Discussion Group entitled "The Idaho Rift System" (October 10, 1970).
Led field trip to ultramafic inclusion locality at San Carlos, Arizona, for 50 conferees of Penrose Conference. (December 1, 1970).
Presented talk to New Mexico Junior Science and Humanities Symposium entitled, "Study of lunar samples" (April 22, 1971).
1971 - 1972
Organized the Petrology Discussion Group at the UNM Department of Geology and conducted a program of research talks one or two times per month during academic year. Reviewed several NSF proposals and numerous papers for Science, Journal of Geophysical Research; Geological Society of America; and American Journal of Science.

1972 - 1973

1973 - 1974
Several talks to school classes, church, and civic groups on lunar geology, diamonds, and Africa.

G. J. Taylor, Senior Research Associate
1976 - 1977
Associate Editor, Proceedings of the Eighth Lunar Science Conference. Reviewed five (5) scientific papers submitted for publication in Geochimica et Cosmochimica Acta, and one for Meteoritics. Reviewed three grant proposals submitted for funding to NASA.

Gero Kurat, Post-doctoral Fellow
1970 - 1971
Presented talk at the Lunar Science Institute, Houston, TX, on "The Cooling history of lunar glass spherules" (March 18, 1971).
Presented talk before the Department of Geology - Institute of Meteoritics Petrology Discussion Group entitled "On the origin of chondrules" (March 3, 1971).

Presented talk at NASA Ames Research Center, Moffett Field, CA, entitled "The Lancel Carbonaceous chondrite" (May 27, 1971).

Reviewed paper for the Proceedings of the Apollo 12 Lunar Science Conference. TV - interview with Channel 5, Albuquerque, and radio interview with a Columbian radio station.

David Lange, Staff Scientist
1974 - 1975
Prepared meteorite exhibit for Albuquerque Gem and Mineral Show.

G. Conrad, Electron Microprobe Specialist
1970 - 1971
Presented talk at Manzano High School Science Club entitled "Returned lunar samples" (February 11, 1971).

F. Busche, Graduate Research Assistant
1969 - 1970
Judge of Gem and Mineral display at New Mexico State Fair, September, 1969.

P. Hlava, Graduate Research Assistant
1972 - 1973
Judge, Mineral Show, New Mexico State Fair, September, 1972.
H. Planner, Graduate Research Assistant

1972 - 1973

Appendix 11

Public service by members of the Institute of Meteoritics since 1968.

Klaus Keil, Director

1968 - 1969

Two talks on "Meteorites" to Albuquerque Highschool students, October 15, 1969.
Talk on "Meteorites" for Questers, First United Presbyterian Church, Albuquerque, New Mexico, March 9, 1969.
Examined some twenty rocks of suspected meteoritic nature donated by citizens.

1969 - 1970

Many private showings of moon rocks to interested citizens, school classes, etc.
Many private showings of meteorite collection to interested citizens, school classes, etc.
Organized three (3) public exhibitions of moon rocks, slides, films, etc., concerning the Apollo program. These exhibitions were seen by approximately 18,000 New Mexicans.
Examined some fifteen (15) rocks of suspected meteoritic nature donated by citizens.

1970 - 1971

Twenty-four (24) private showings of moon rocks to interested citizens, school classes, civic groups, etc.
Approximately nine (9) private showings of the meteorite collection to interested citizens, school classes, and civic groups.
Organized showing of moon rocks and material on UNM and its science departments at the New Mexico State Fair. This exhibition was visited by nearly 70,000 people.
Examined seventeen (17) rocks of suspected meteoritic nature donated by citizens, one was recognized as a new meteorite. This specimen is presently being studied and will be known as the Orogrande, New Mexico, chondrite.
1971 - 1972

Thirty-one (31) private showings of moon rocks to interested citizens, school classes, civic groups, etc.
Twelve (12) private showings of the meteorite collection to interested citizens, school classes, and civic groups.
Examined twenty-one (21) rocks of suspected meteoritic nature donated by interested citizens.

1972 - 1973

Eighteen (18) private showings of moon rocks to interested citizens, school classes, civic groups, etc.
Fourteen (14) private showings of the meteorite collection to interested citizens, school classes, and civic groups.

1973 - 1974

Private showings of moon rocks to interested citizens, school classes, civic groups, etc.
Private showings of the meteorite collection to interested citizens, school classes, and civic groups.
Talk on "To the moon and on to Mars," Rotary Club, Albuquerque, February 7, 1974.

1974 - 1975

U.S. Viking Mission to Mars, Public Symposium, including several TV interviews and shows; talks in the UNM Geology Department and Institute of Meteoritics, at S. Johns College (Santa Fe); as well as presentation of Mars Globe to Governor Apodaca; April 3-4, 1975.


Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite collection to interested citizens, school classes and civic groups.

1975 - 1976

Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.

Many private showings of the meteorite collection to interested citizens, school classes and civic groups.

Organized meteorite exhibit at the New Mexico State Fair, Albuquerque, September, 1975.


Talk on "To the Moon and Beyond: Geological exploration of the planets," Rock Founder, Santa Fe, NM March 9, 1976.

1976 - 1977

Many private showings of moon rocks to interested citizens, school classes, civic
groups, etc.

Many private showings of the meteorite museum to interested citizens, school
classes, civic groups, etc.

Talk on "Geology of Mars: The U.S. Viking Missions," to the Albuquerque Geo-
logical Society, September 21, 1976.

Talk on "The U.S. Viking Missions: Scientific results," to the New Mexico Chapter
of the American Society of Heating, Refrigerating, and Airconditioning Engineers,
Albuquerque, September 21, 1976.

Presented talk in Popejoy Hall, UNM, attended by 1,700 citizens on "The Story of

Presented talk on "The Geology of Mars: The U.S. Viking Mission," to the AIME,

Presented talk on "The U.S. Viking Missions to Mars," to the American Society of
Mechanical Engineers, New Mexico Section, Santa Fe, NM, February 4, 1977.

Presented talk on "The Geology of Mars: Results of the U.S. Viking Mars landings",

Presented talk on "Exploration of Mars: The U.S. Viking Mission" to Albuquerque
Rock Hounds, June 12, 1977.

Investigated without charge many rocks suspected to be meteorites and brought
in by citizens.

Martin Prinz, Senior Research Associate

1969 - 1970

Many private showings of Moon rocks to interested citizens and school classes.
1970 - 1971
Many private showings of moon rocks to interested citizens, school classed, etc.

1971 - 1972
Many private showings of moon rocks to interested citizens.

1972 - 1973
Several talks to school children on moon rocks.
Several private showings of moon rocks to interested citizens and visiting scientists.

G. J. Taylor, Senior Research Associate
1976 - 1977
Showed lunar samples to a Cub Scout group and to numerous other visitors.
Gave "Planetary Science" lecture to monthly meeting of Kiwanis Club, Albuquerque.

R. D. Warner, Post-doctoral Fellow
1976 - 1977
Led guided tour of Meteorite Museum for members of the Association of Science Editors, October 17, 1976.

Gero Kurat, Post-doctoral Fellow
1970 - 1971
Five (5) private showings of moon rocks to interested citizens, school classes, etc.
**David Lange, Staff Scientist**

1974 - 1975

Short lecture tours, often at night or on weekends, to 12 groups totalling about 200 persons, including 3 High School classes, 6 grade school classes, 2 Community College classes, and 1 Rock and Mineral Club.

1975 - 1976

5 guided tours of Meteorite Museum to special Community College classes, 2 University classes, Gem and Mineral Club, and Senior Citizen group. Gave 2 talks on meteorites to local organizations. Elected Vice-President, Central New Mexico Audubon Society.

1976 - 1977

Vice-President, Central New Mexico Audubon Society. President, Central New Mexico Audubon Society. Member of the Candelaria Farms Nature Preserve task force which is setting up and designing a nature center. Provided guided tours to 6 grade school classes to the Meteorite Museum. Inspected without charge many rocks suspected to be meteorites and brought in by citizens. Designed and carried out meteorite display for New Mexico Mineral Exhibition.

**George Conrad, Electron Microprobe Specialist**

1970 - 1971

Approximately five (5) private showings of moon rocks to interested public.

1971 - 1972

Many private showings of Moon rocks to interested citizens.
Provided 11 guided tours of the Microprobe laboratory.

**Paul Hlava, Graduate Research Assistant**

1973 - 1974

Election Judge, Primary Election; June 4, 1974, Albuquerque, NM.

**G. R. Huss, Graduate Research Assistant**

1976 - 1977

Many talks on recognizing meteorites to laymen.

**W. L. Mansker, Graduate Research Assistant**

1976 - 1977

Gave tour of Institute of Meteoritics, Meteorite Museum, and Dept. of Geology to Albuquerque Senior Citizens Club.
Committee Chairman, Rodney C. Rhodes Memorial Scholarship Committee (Sigma Gamma Epsilon).

**H. N. Planner, Graduate Research Assistant**

1976 - 1977

Six (6) donations of blood to United Blood Services, Albuquerque.
Appendix 12

Honors bestowed on members of the Institute of Meteoritics since 1968.

Klaus Keil, Director

1. Elected Fellow, Mineralogical Society of America (1968).
2. Elected Fellow, American Association for the Advancement of Science (1969).
5. Recipient of the Blue Ribbon Award of the Western Fairs Association and the New Mexico State Fair (Moon Rock Exhibit) (1970). This is only the third time that this award has been presented.
7. Powell Memorial Lecturer, Arizona Academy of Sciences and SW-Branch, Amer. Assoc. for the Advancement of Science (1971).
9. Elected Honorary Member, Phi Eta Sigma (Freshman Honorary) (1973).
11. Named Correspondent Member of the Natural History Museum, Vienna, Austria, by the Minister of Education and Science of the Republic of Austria and the Director of the Museum. (1975).
Martin Prinz, Senior Research Associate


J.L. Berkley, Graduate Research Assistant

2. Student Speaker Award, Meteoritical Society Meeting, Tours, France (1975).
4. Elected to membership in Phi Kappa Phi Honor Society

Fred Busche, Graduate Research Assistant

1. Elected Associate Member, Sigma Xi (1970).

J.L. Gooding, Graduate Research Assistant


W.L. Mansker, Graduate Research Assistant

1. Dept. of Geology, UNM Scholarship, for presentation of paper at the American Geophysical Union (Midwestern) Meeting in Ann Arbor, Michigan (1976).
2. UNM Dept. of Geology Scholarship for travel to magma genesis conference.

Harry Planner, Graduate Research Assistant

1. V.C. Kelly Award, UNM Dept. of Geology, for excellence in field geology (1973).

Richard G. Warren, Graduate Research Assistant

1. New Mexico Geological Society Award, for field work towards M.S. degree (1975).

Dorothy Boyer, Undergraduate Research Assistant


Georgianna E. Honea, Undergraduate Research Assistant

Appendix 13

Activities of members of the Institute of Meteoritics as officers in professional societies and associations since 1968:

Klaus Keil, Director

1. President of the Meteoritical Society (1968-1970)


8. Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association (1970-present).


10. Member, 21 Club, University of New Mexico (1970).


15. Member, American Geophysical Union (1971).
19. Member, National Committee on Geochemistry, National Academy of Sciences (1972-1974).
20. Member, MSA Award Committee, Mineralogical Society of America (1972-1973).
22. Vice-Chairman, U.S. National Committee on Geochemistry, National Academy of Sciences (1972-1974).
34. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado (1974-present).
35. Member, Committee on Public Education and Information, Mineralogical Society of America (1974-1976).
42. Co-chairman, Organizing Committee, Symposium on "Interrelationships among meteoritic and lunar breccias", American Geophysical Union Meeting (1975).
43. Member, Viking Mars Flight Team, Jet Propulsion Laboratory, Pasadena, California (1971-present).

Martin Prinz, Senior Research Associate
1. Assistant Secretary, International Association for Geochemistry and Cosmochemistry (1973-1976).

H. Cassaway Brown, Graduate Research Assistant
1. President, student chapter, Amer. Institute of Mining Engineers (1974-1975).

Roger Fisher, Graduate Research Assistant
1. Secretary-Treasurer, Beta-Mu chapter, Sigma Gamma Epsilon.

J.L. Gooding, Graduate Research Assistant

William L. Mansker, Graduate Research Assistant
1. President, Sigma Gamma Epsilon, Earth Science Honorary, Beta Mu chapter, UNM (1976).

Steven Sibray, Graduate Research Assistant
1. Member, Geological Society of America.
2. Student member, Geological Society of New Mexico.

Terry Steinborn, Graduate Research Assistant
1. Member, American Geophysical Union
2. Member, Geological Society of America.
Richard Warren, Graduate Research Assistant

1. Student member, Mineralogical Society of America (1975).

2. Member, Sigma Gamma Epsilon, Earth Science Honorary, Beta Mu Chapter, UNM (1976).

Since 1968, members of the Institute of Meteoritics served on 58 occasions as officers in professional societies and associations. Of these, 10 offices were held by students.
Appendix 14

Present positions of former academic employees, post-doctoral fellows, and graduate students of the Institute of Meteoritics.

<table>
<thead>
<tr>
<th>Name</th>
<th>Former Position in Inst. of Meteoritics</th>
<th>Present Position</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dr. Martin Prinz</td>
<td>Sr. Research Associate</td>
<td>Chairman</td>
<td>Dept. of Mineralogy, Am. Museum of Natural History, New York, NY</td>
</tr>
<tr>
<td>2. Dr. Eric Dowty</td>
<td>Post-doctoral Fellow</td>
<td>Assistant Professor</td>
<td>Dept. of Geology, Princeton University, Princeton, NJ</td>
</tr>
<tr>
<td>3. Dr. R. V. Fodor</td>
<td>Post-doctoral Fellow</td>
<td>Assistant Professor</td>
<td>Dept. of Geology, North Carolina State University, Raleigh, NC</td>
</tr>
<tr>
<td>4. Dr. Gero Kurat</td>
<td>Post-doctoral Fellow</td>
<td>Chairman</td>
<td>Dept. of Mineralogy, Petrology, and Meteoritics, National Museum of Natural History, Vienna, Austria</td>
</tr>
<tr>
<td>5. Dr. W. Paar</td>
<td>Post-doctoral Fellow</td>
<td>Assistant Professor</td>
<td>Dept. of Mineralogy, University of Salzburg, Salzburg, Austria</td>
</tr>
<tr>
<td>6. Dr. C. B. Gomes</td>
<td>Post-doctoral Fellow</td>
<td>Associate Professor</td>
<td>Institute of Geosciences, University of São Paulo, São Paulo, Brazil</td>
</tr>
<tr>
<td>7. Dr. E. Kirchner</td>
<td>Post-doctoral Fellow</td>
<td>Assistant Professor</td>
<td>Dept. of Mineralogy, University of Salzburg, Salzburg, Austria</td>
</tr>
<tr>
<td>8. Dr. F. Busche</td>
<td>Graduate Research Asst.</td>
<td>Geologist</td>
<td>Wyoming Mineral Co., Denver, CO</td>
</tr>
<tr>
<td>9. Dr. T. Steinborn</td>
<td>Graduate Research Asst.</td>
<td>Research Scientist</td>
<td>Univ. of California, Berkley, Lawrence-Livermore Radiation Lab, Livermore, CA</td>
</tr>
<tr>
<td>10. P. Hlava (M.S.)</td>
<td>Graduate Research Asst.</td>
<td>Scientist (Staff)</td>
<td>Sandia Laboratories, Albuquerque, NM</td>
</tr>
<tr>
<td>Name</td>
<td>Former Position in Inst. of Meteoritics</td>
<td>Present Position</td>
<td>Address</td>
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</tr>
<tr>
<td>G. Brown (M.S.)</td>
<td>Graduate Research Asst.</td>
<td>Geologist</td>
<td>Exxon Mineral Division, Denver, CO</td>
</tr>
<tr>
<td>S. Sibray (M.S.)</td>
<td>Graduate Research Asst.</td>
<td>Geologist</td>
<td>Pathfinder Mines, Albuquerque, NM</td>
</tr>
<tr>
<td>G. Warren (M.S.)</td>
<td>Graduate Research Asst.</td>
<td>Staff Scientist</td>
<td>Los Alamos Scientific Laboratory, Los Alamos, NM</td>
</tr>
</tbody>
</table>
BIOGRAPHY

Name: Klaus Keil

Born: November 15, 1934, Hamburg, Germany

Citizenship: U.S.A.

Married: Rosemarie Keil (1961)

Children: Two - Kathrin R. Keil (1962) and Mark K. Keil (1967)

Education: 1941-1949 - Elementary School, Jena, Germany

1949-1953 - High School, Jena, Germany

Degree: Abitur

1953-1958 - Friedrich-Schiller-University, Jena, Germany

Major: Mineralogy and Geochemistry

Minor: Chemistry

Degree: M.S.

Research: Mineralogy and geochemistry of potash deposits and salt minerals, particularly boron minerals

1961 Johannes-Gutenberg-University, Mainz, Germany

Major: Mineralogy and Geochemistry

Minor: Chemistry and Geophysics

Degree: Ph.D.

Research: Mineralogy and geochemistry of meteorites

Employment: 1958-1960 - Mineralogical Institute, Friedrich-Schiller-University, Jena, Germany

Position: Research Associate and Instructor

Research: Salt minerals; mineralogy and geochemistry of meteorites

1961 Max-Planck-Institute for Chemistry, Mainz, Germany

Position: Research Associate

Research: Mineralogy and geochemistry of meteoritic minerals; noble gases in extraterrestrial materials; absolute ages of meteorites

1961-1963 Department of Chemistry, University of California

San Diego, La Jolla, California

Position: Research Associate

Research: Application of the electron microprobe to studies of meteorites and other extraterrestrial materials
1963-1964  National Aeronautics and Space Administration, Space Sciences Division, Ames Research Center, Moffett Field, California  
Position: National Academy of Sciences - National Research Council Resident Research Associate  
Research: Mineralogy and geochemistry of meteorites applying electron microprobe techniques

1964-1968  National Aeronautics and Space Administration, Space Sciences Division, Ames Research Center, Moffett Field, California  
Position: Staff Research Scientist, supervising the cosmochemistry and mineralogy laboratory, a group of four Ph.D.'s and five technicians  
Research: Nondestructive microchemical study of extraterrestrial materials using electron microprobe and laser microprobe techniques  
Development of standards and techniques to analyze returned lunar rock and dust samples

Since 1968  Department of Geology and Institute of Meteoritics, The University of New Mexico, Albuquerque, N. M. 87131  
Position: Professor of Geology and Director of the Institute of Meteoritics  

Teaching Experience:  1958-1960  Mineralogical Institute, Friedrich-Schiller-University, Jena, Germany  
Subject: Mineralogy; petrology; potash deposits; ore deposits; geochemistry; meteoritics

1966-1968  Department of Geology and Mineralogy, San Jose State College, San Jose, California  
Subject: Graduate course on:  
(1) Electron microprobe analysis and application (with special reference to the earth sciences).
(2) Modern analytical methods in geology (neutron activation analysis, mass spectrometry including age dating, low-level counting, atomic absorption, infrared analysis, laser beam microprobe analysis, electron diffraction and neutron diffraction, fission track methods, Kossel and Kikuchi microdiffractions, x-ray diffraction and emission, and others).

Since 1968  
Department of Geology and Institute of Meteoritics,  
The University of New Mexico, Albuquerque, N.M.  
Subject: (1) Meteoritics (the nature, origin and history of the solar system on the basis of cosmochemical, lunar, and meteoritical evidence).

(2) Microprobe analysis (theory, instrumentation, and application of electron, laser and ion beam microprobe analyzers).

(3) Modern analytical techniques in geology
(4) Microscopy of opaque ores

Member: Meteoritical Society (Fellow); American Association for the Advancement of Science (Fellow); Mineralogical Society of America (Fellow); Geochemical Society; Deutsche Mineralogische Gesellschaft; Vereinigung der Freunde der Mineralogie und Geologie; The Electron Probe Analysis Society of America; American Geophysical Union; American Institute of Chemists (Fellow); Clube de Mineralogia, Recife, Pernambuco, Brazil; Geological Society of Brazil.

Honors and Society Offices:

1963-1964: National Academy of Sciences - National Research Council Resident Research Associateship with tenure at the National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California

Since 1966: Fellow of the Meteoritical Society.

1966-1968: Councilor of the Meteoritical Society

1966: Member of the National Eight Men Panel to establish and organize an Electron Microprobe Society of America

Since 1967: Principal Investigator, electron microprobe and laser microprobe study of returned lunar rock and dust samples

1967: Chairman, Organizing Committee, 30th Annual Meeting, Meteoritical Society

1967: Chairman, Publications Committee, Meteoritical Society

Since 1967: Full Member, The Society of Sigma XI
Stanford Chapter
Stanford University

Since 1968: UNM Chapter

1968-1970: President, The Meteoritical Society

1968: Member, Nominating Committee, The Electron Probe Analysis Society of America

1968: Member, Planetology Advisory Subcommittee of the Space Sciences and Applications Steering Committee, National Aeronautics and Space Administration, Washington, D. C.

Since 1968: Secretary, Commission on Meteorites, The International Union of Geological Sciences

Since 1968: Fellow, The Mineralogical Society of America

Since 1969: Fellow, The American Association for the Advancement of Science


1970: Apollo Achievement Award of the National Aeronautics and Space Administration

1970: Recipient of the first George P. Merrill Award, National Academy of Sciences, Washington, D. C.

1970: Member, Committee on Electron Microprobe Standards, The Geochemical Society

1968-1976: Secretary, Commission on Cosmic Mineralogy, the International Mineralogical Association


1970: General Chairman, 8th National Microprobe Meeting to be held in New Orleans, Louisiana


1971: John Wesley Powell Memorial Lecturer and Arizona Academy of Science Invited Lecturer, AAAS and Arizona Academy of Science Meeting, Tempe, Arizona
1971: Associate Editor, Proceedings of the Second Lunar Science Conference, Geochimica et Cosmochimica Acta

1971: President-Elect, The Electron Probe Analysis Society of America

1971: Fellow, American Institute of Chemists


1972-1974: Member, Mineralogical Society of America Award Committee

1972-1973: Chairman, Mineralogy and Petrology Section, Lunar Science Review Board, Lunar Science Institute, NASA, Houston, Texas

1972: Chairman, Nominating Committee, The Electron Probe Analysis Society of America

1972-1974: Vice-Chairman, U.S. National Committee for Geochemistry, National Academy of Sciences

1972: Chairman, Organizing Committee, Meeting of the U.S. National Committee for Geochemistry, National Academy of Sciences, Albuquerque, N. M.


1972-1977: Secretary, International Association for Geochemistry and Cosmochemistry

1972: Mineralogy-Petrology Consortium Leader, U.S. studies of Russian Luna 20 returned lunar samples.

1973: Outstanding Educator of America.

1973-1978: Member, Leonard Medal Committee, Meteoritical Society.

Since 1973: Associate Editor of "Chemical Geology."


1973: Member, Ad Hoc Lunar Data Synthesis Review Panel, National Aeronautics and Space Administration (NASA), Washington, D.C.

1973: Chairman, Nominating Committee, Meteoritical Society.

1973: Honorary Member, Phi Eta Sigma.


1974: Chairman, Program Committee, 55th Annual Meeting, American Geophysical Union, Washington, D.C.


1974-1975: Member, Lunar Sample Analysis Planning Team (LSAPT), NASA, Houston, Texas.

Since 1974: Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado

1974-1976: Member, Committee on Public Education and Information, Mineralogical Society of America.

1974: Recipient of the Plaque of the American Federation of Mineralogical Societies.


1974: Distinguished Visiting Professor, Department of Geosciences, University of Sao Paulo, Sao Paulo, Brazil.

1974: Visiting Professor, Department of Chemistry, University of California, La Jolla, California.

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>Co-chairman, Organizing Committee, Symposium on &quot;Interrelationships among meteoritic and lunar breccias, AGU.</td>
</tr>
<tr>
<td>1976</td>
<td>Vice-Chairman, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, Texas.</td>
</tr>
<tr>
<td>1976-1977</td>
<td>Visiting Associate in Geochemistry, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California.</td>
</tr>
<tr>
<td>1976</td>
<td>Named &quot;Correspondent Member of the Natural History Museum, Vienna&quot; by the Minister of Education and Science of the Republic of Austria and the Director of the Museum.</td>
</tr>
<tr>
<td>1976-1978</td>
<td>Member, Viking Mars Flight Team, Jet Propulsion Laboratory, Pasadena California.</td>
</tr>
<tr>
<td>1977</td>
<td>Recipient of the NASA Exceptional Scientific Achievement Medal.</td>
</tr>
<tr>
<td>1977-1978</td>
<td>Chairman, Leonard Medal Committee, Meteoritical Society</td>
</tr>
<tr>
<td>Since 1977</td>
<td>Honorary Research Associate, Dept. of Mineral Sciences, American Museum of Natural History, New York, NY.</td>
</tr>
</tbody>
</table>
PUBLICATIONS

(Not listed are some 150 abstracts, published in various scientific journals, proceedings of meetings, etc.)


14. The Fe, Mg, Ca, and Ni distribution in coexisting minerals in the Murray carbonaceous chondrite. Meteoritics 2, 201-217, 1964 (with K. Fredriksson).


63. Hibonite \(\text{Ca}_4\text{(Al, Ti)} \cdot _7\) from the Leoville and Allende chondritic meteorites. Earth Planet. Sci. Letters 12, 184-190, 1971 (with L.H. Fuchs).

64. Lithic fragments, glasses, and chondrules from Luna 16 fines. Earth Planet. Sci. Letters 13, 243-256, 1972 (with G. Kurat, M. Prinz, and J.A. Green).


69. Electron microprobe analyses of lithic fragments and glasses from Apollo 12 lunar samples, Spec. Publ. 4, UNM Institute of Meteoritics, 1-14, 1972 (with T.E. Bunch and M. Prinz).

70. Electron microprobe analyses of lithic fragments, glasses, chondrules, and minerals from Luna 16 fines. Spec. Publ. 5, UNM Institute of Meteoritics, 1-16, 1972 (with J.A. Green, G. Kurat, and M. Prinz).


78. Description, classification, and inventory of 151 Apollo 16 rake samples from the LM area and Station 5. Manned Spacecraft Center, Houston, Texas, 1-166, December 1972 (with E. Dowty, M. Prinz, and T.E. Bunch).


105. Description, classification and inventory of 113 Apollo 17 rake samples from Stations 1A, 2, 7, and 8. NASA L.B. Johnson Space Center, Houston, Texas, 1-149 (with E. Dowty and M. Prinz).


143. Ultramafic and mafic dredge samples from the equatorial Mid-Atlantic Ridge and fracture zones. J. Geophys. Res. 81, 4087-4103, 1976 (with M. Prinz, J.A. Green, A.M. Reid, E. Bonatti, and J. Homerez).


192. Green glassy rock 78526: An impact melt of very low-Ti mare basalt?
Lunar and Planet. Sci. IX, LPI, Houston, 1225-1227, 1978 (with R.D.

193. Catalogue of Apollo 17 rake samples from Stations 1A, 2, 7, and 8.
Spec. Publ. No. 18, Univ. New Mexico - Institute of Meteoritics, 1-88,

194. The Hyrkan, McPherson County, Kansas meteorite.
Meteoritics 13, 11-22, 1978 (with J. Leen,
D.C. Brocklin, E.L. King, T.V. King, and
E. Jareckich).

195. On the chemistry of the Martian surface
micrometeoroid and petrologic
spectra-train. Nature Communications 85,
271-275, 1978 (with R. K. Clark, H.K.
David, P. Tanaka, and T.J. Rose)
(with Simon).
G. JEFFREY TAYLOR

795· Geologist

Education:

Colgate University, A.B. (1966)
Rice University, M.A. (1968)
Rice University, Ph.D. (1970)

Positions Held:

1966 (summer) Research Assistant, State University of New York, Stony Brook
1967 (summer) Geophysicist, Gulf Oil Company
1968 (summer) Research Assistant, State University of New York, Stony Brook
1970-1973 Postdoctoral Fellow, Smithsonian Astrophysical Observatory and
1973-1976 Assistant Professor, Department of Earth and Planetary Sciences,
Washington University, St. Louis, Mo.
1976-present Senior Research Scientist, Institute of Meteoritics and Department
of Geology, University of New Mexico, Albuquerque, N.M.

Honors and Awards:

Harvey Picker Physics Prize, Colgate University, May, 1966
NDEA Fellowship, Rice University, Sept., 1966-July, 1969
Co-winner of 1967-68 Nininger Meteorite Contest ($450 prize)
Sigma Xi Award for graduate research, Rice University, May, 1970

Professional Societies:

American Association of the Advancement of Science
American Geophysical Union
Geochemical Society
Meteoritical Society

Scientific Work:

G. Jeffrey Taylor has studied the thermal histories of chondritic meteorites, using petrographic, metallographic, X-ray diffraction, electron microprobe, and mass spectrometric techniques. In the course of graduate training under the direction of Dr. Dieter Heymann, he made a comprehensive study of the relationship among shock effects, reheating, and the gas-retention ages of chondrites, and he was the first to thoroughly investigate the occurrence of two types of taenite (an iron-nickel phase) in ordinary chondrites. From 1970-1973 he worked with Dr. John A. Wood at the Smithsonian Astrophysical Observatory on the petrology of rock fragments in lunar soil samples, with emphasis on the composition and origin of the lunar highlands. At Washington University, he studied the petrology of lunar breccias that contain fission Xe derived from extinct $^{244}$Pu and was active in a comprehensive petrologic, fossil-track, and rare-gas study of Ca-, Al- rich inclusions, with emphasis on the geochemical behavior of Pu, U, and Th. Since joining the staff at the Institute of Meteoritics, he has continued to study the petrologic and geochemical nature of meteorites and lunar samples.
Bibliography of G. Jeffrey Taylor


RÉSUMÉ

Richard D. Warner

PRESENT ADDRESS:

Institute of Meteoritics & Department of Geology
The University of New Mexico
Albuquerque, New Mexico 87131
Phone: (505) 277-3817

DATE OF BIRTH: August 3, 1944

EDUCATION:

Massachusetts Institute of Technology – B.S., Earth Sciences – 6/10/66
Stanford University – Ph.D., Geology – 4/1/71
Dissertation: "Experimental investigations in the system CaO-MgO-SiO₂-H₂O"
Thesis Advisor: W.C. Luth

AWARDS, FELLOWSHIPS:

National Science Foundation Graduate Fellowship (1966-67; 1967-68; 1968-69; 1969-70)

JOB EXPERIENCE:

Resident Research Associate, Planetology Branch, NASA – Goddard Space Flight Center (1971-73): Conducted research in the field of high-pressure, hydrothermal phase equilibria, with emphasis on synthetic olivine and pyroxene systems.

Research Associate, Department of Geology, University of Maryland (1973-74): Studied mineralogy and petrology of Apollo 17 lunar samples.

Research Associate, Institute of Meteoritics & Department of Geology, University of New Mexico (1974- ): Continuing mineralogical-petrological investigation of lunar samples, with emphasis on lunar mare basalts. Research involves extensive use of electron microprobe and the supervision of several graduate research assistants.

PRINCIPAL RESEARCH INTERESTS:

Mineralogy and petrology of terrestrial mafic and ultramafic rocks
Mineralogy and petrology of lunar mare basalts
Phase equilibria pertaining to olivine and pyroxene systems;
also, systems involving spinel and Fe-Ti oxides.
BIBLIOGRAPHY:


2. Two-phase data for the join monticellite \((\text{CaMgSi}_4\text{O}_4)\) – forsterite \((\text{Mg}_2\text{Si}_4\text{O}_4)\): Experimental results and numerical analysis. Amer. Mineral. 58, 998-1008, 1973 (with W.C. Luth).

3. The diopside – orthoenstatite two-phase region in the system \(\text{CaMgSi}_2\text{O}_6-\text{Mg}_2\text{Si}_2\text{O}_6\). Amer. Mineral. 59, 98-109, 1974 (with W.C. Luth).


NAME: Berkley, John Lee

DATE OF BIRTH: May 17, 1943 (Lawrence, Kansas)

NATIONALITY: U.S.A.

MARITAL STATUS: Married

CHILDREN: None

PRESENT ADDRESS: Institute of Meteoritics & Department of Geology,
University of New Mexico
Albuquerque, New Mexico 87131 U.S.A.

EDUCATION:
University of Minnesota, Duluth (R.W. Ojakangas)--B.A. (B.S. elsewhere), 1970; GPA 2.89
University of Missouri, Columbia (G.R. Himmelberg)--M.A. (M.S. elsewhere), 1972; GPA 3.41
University of New Mexico (K. Keil) ---------Ph.D. 1977; GPA 3.89

Languages: Spanish (speak, fair; read, excellent)
French (read, fair)
German (read, poor)

HONORS AND AWARDS:
1. Member, National Honor Society (Richmond H.S., Richmond, Indiana - 1965-1966)
2. Gold scholarship award (Richmond H.S., Richmond, Indiana - 1966).
4. Student fellowship to present paper, Tour, France (Meteoritical Society an. meeting - 1975).
5. Penrose Grant (Geological Society of America - 1975)
7. Elected member of Phi Kappa Phi Honor Society - 1978.

TEACHING EXPERIENCE:
WORK EXPERIENCE:

1. Minnesota Geological Survey (summer, 1969) Field assistant; Archean greenstone
2. United States Steel Corp. (summer, 1970) Exploration Geologist; Cu-Ni, north Minn.
4. Institute of Meteoritics, UNM (1973 to present) Research assistant; microprobe operator, geochem. & petrology of lunar, meteoritical, and terrestrial mafic-ultramafic rocks and pelitic metasediments.

OTHER PERTINENT EXPERIENCE:

1. Learned neutron activation analysis technique at Radiation Center, Oregon State University, Corvallis, Ore. (under Dr. Roman A. Schmitt, Dept. of Chemistry).

CURRENT INTERESTS/ON-GOING RESEARCH:

2. Petrofabric analyses of ultramafic achondritic meteorites
3. Chemical evolution of Carbon-bearing olivine-pigeonite achondrites (ureilites)
4. Geology and mineral chemistry systematics in pelitic rocks of a contact metamorphic aureole in the Sandia Mountains, Placitas, New Mexico.

PROFESSIONAL ORGANIZATIONS:

1. Geological Society of America (since 1973)
3. American Geophysical Union (since 1974)
4. The Meteoritical Society (since 1975)

PUBLICATIONS:


RESUME OF: David E. Lange
Institute of Meteoritics
University of New Mexico
Albuquerque, New Mexico 87131
505-277-3842

MAJOR FIELD: Geochemistry

AREAS OF INTEREST:
Meteoritics, extraterrestrial geochemistry, electron microprobe analysis and automation, igneous petrology and ore deposits

EDUCATION:
MS, 1973, Arizona State University, Tempe, Arizona 85281
Major: geochemistry GPA 3.86 31 semester hours
Research director: Dr. Carleton B. Moore
Thesis: The sulfide minerals of the LL chondrites

BS, 1970, Oregon State University, Corvallis, Oregon 97321
Major: chemistry GPA 3.03 198 term hours
chemistry 78 hours
geology 24 hours

EMPLOYMENT:
Institute of Meteoritics, University of New Mexico, Albuquerque, New Mexico 87131
Staff scientist--my present duties include: computer programming, preparation of polished thin sections, care of meteorite collection and museum and conducting petrographic and microprobe studies on meteorites.

Employment prior to July 1973 was part time and summer employment while attending school, this includes:

9-70 to 4-73 Dept. of Chemistry, ASU, Tempe, Arizona
Graduate teaching and research assistant

7-66 to 8-70 U.S. Bureau of Mines, Albany, Oregon
Physical science aid

6-70 to 8-70 Radiation Center, OSU, Corvallis, Oregon
Research assistant for Dr. Schmitt

6-69 to 8-69 Radiation Center, OSU, Corvallis, Oregon
NSF undergraduate research participant working under Dr. Loveland
Resume of David E. Lange

PUBLICATIONS


PROFESSIONAL MEMBERSHIPS
Geochemical Society
Meteoritical Society

PERSONAL DATA
Single 6'2" 175 lbs. 29 years old

BACKGROUND
Born in Yakima, Washington and brought up in Albany, Oregon. Active in Audubon and presently president of the Central New Mexico Audubon Society.

OTHER INTERESTS
Birding, conservation, cross-country skiing, passive solar heated homes, photography, hiking, backpacking and astronomy.

REFERENCES
On request
- CURRICULUM VITAE -

Celso de Barros Gomes

PERSONAL DATA

Born: May 25, 1935; Cachoeira Paulista, São Paulo, Brazil.
Marital Status: Married, three children.
Citizenship: Brazil.

EDUCATION

Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, B. Sc., 1960.
Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, D. Sc., 1967.
Instituto de Geociências, Universidade de São Paulo, Livre Docente, 1971.

POSITIONS HELD

Assistant - Departamento de Mineralogia e Petrologia, Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, 1961-1967.
Assistant Professor - Departamento de Mineralogia e Petrologia, Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, 1967-1971.
Associate Professor - Departamento de Mineralogia e Petrologia, Instituto de Geociências, Universidade de São Paulo, 1971.

EXPERIENCE

Visiting Researcher - Department of Geology, University of Georgia, Athens, U.S.A., February - March 1972.


MEMBERSHIP OF SCIENTIFIC SOCIETIES

Sociedade Brasileira de Geologia
Sociedade Brasileira para o Progresso da Ciência
Associação Brasileira de Gemologia e Mineralogia
Associação Latinoamericana de Geologia
Associação Latinoamericana de Editores de Geociências
Mineralogical Society of America
Microbeam Analysis Society
Meteoritical Society
International Association of Geochernistry and Cosmochemistry

INTERESTS

Petrology, geochemistry, meteorites, microprobe analysis.

HONORS

Geological Society of Brazil, Award, 1970.

SOCIETY OFFICES, COMMITTEES, etc.

Secretary, Sociedade Brasileira de Geologia, 1969-1971.
Council Member, Sociedade Brasileira de Geologia, 1969-1971.
Member, Organizing Committee, 22th Annual Meeting Sociedade Brasileira para o Progresso da Ciência, 1970.
Member, Organizing Committee, XXV Congresso Brasileiro de Geologia, 1971.

Member, Organizing Committee, 24th Annual Meeting Sociedade Brasileira para o Progresso da Ciência, 1971.


Member, Editorial Board, Journal "Revista Brasileira de Geociências", since 1971.

Secretary, Sociedade Brasileira de Geologia, 1973-1975.

Council Member, Sociedade Brasileira de Geologia, 1973-1975.


Member, Committee on Mesozoic Magmatism in Brazil, 1973.

Council Member, Associação Latinoamericana de Editores de Geociências, 1973-1976.

Council Member, Associação Latinoamericana de Geologia, 1973-1975.

Member, Organizing Committee, International Symposium on Continental Margins of Atlantic Type, 1975.

Secretary, Sociedade Brasileira de Geologia, 1975-1977.

Council Member, Sociedade Brasileira de Geologia, 1975-1977.


Member, Organizing Committee, I International Symposium on Carbonatites, 1976.


Council Member, Sociedade Brasileira de Geologia, 1977-1979.

PUBLICATIONS

(Not listed are some 50 abstracts, published in scientific journals, proceedings of meetings, etc.)


05 - Petrochemistry of a Pre-cambrian amphibolite from the Jaraguá Area, SP, Brazil. J. Geol. 72 : 664-680, 1964 (with P. Santini and C.V. Dutra).


14 - Pyroxenes from the alkaline rocks of Itapirapuã, SP, Brazil. Amer. Min. 55 : 224-230, 1970.


64 - Studies of Brazilian Meteorites XIV. Mineralogy, petrology and chemistry of the Conquista, Minas Gerais, chondrite. Meteoritics (with K. Keil, E. Kirchner, E. Jarosewich and R. L. L. Murta). In press.

65 - Studies of Brazilian Meteorites XV. Mineralogy, petrology and chemistry of the Sao Jose do Rio Preto, Sao Paulo, chondrite. Bol. IG-USP (with M. N. C. Ulbrich, K. Keil, E. Kirchner and E. Jarosewich). In press.
INTRODUCTION

I am pleased to present the annual report of the Department of History for 1977-78. During the past academic year the Department maintained relative stability in its enrollments on both the undergraduate and graduate levels. Enrollments in introductory lower-division courses increased while those in upper-division courses decreased. Graduate enrollments remained steady but the composition of graduate students reflected changes from previous years, particularly in a greater number of minorities, women and non-traditional, and older students. To some degree, this reflected the Department's new program for Non-Traditional Students, adopted during 1977-78, to attract such persons to graduate studies in History.

The regular Departmental staff was augmented during the year by distinguished visitors. During the fall of 1977 Professor John Johnson of Stanford University offered courses in Latin-American history as did former President Paz-Estensorro of Bolivia in the Spring Semester. The Department's course on minorities in history attracted more than a dozen well known lecturers in the fields of Black history, Chicano history, Women's history, and Native American history.

In the past year members of the History Department staff maintained a high level of participation in professional activities and in scholarly publication as the more detailed listings in this report will indicate. Many also participated in faculty government activities such as the University Senate and various committees.
In its varied activities the Department is conscious of its responsibilities to the mission of the University, and to serving the needs of the people of New Mexico. In the coming year the Department hopes to continue—and to expand this tradition of service.
THE REPORT OF THE DEPARTMENT OF HISTORY

July 1, 1977 - June 30, 1978

Gerald D. Nash, Chairman

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements

1. Because of the moratorium on new courses, no new courses were added during the year. However, the Department did offer a course under History 320 - Studies in History, entitled "The Minority in History," which brought 12 prominent minority persons to campus as guest lecturers.

2. Activities Beyond the Formal Curriculum
   a. Two History journals, The Historian, Editor Gerald D. Nash, and The New Mexico Historical Review, Acting Editor Donald Cutter, continue to publish in the Department.
   b. The New Mexico Historians Guild, initiated by the UNM History Department in 1974, met in Albuquerque on April 1, 1978. Thirty historians from UNM and other state universities met to discuss mutual interests.
   c. The family of deceased History Professor George W. Smith established the George W. Smith Annual Lectureship, whereby a distinguished professor and authority in Civil War History is invited to campus as a guest lecturer. This year the Department chose Dr. Harold Hyman, William P. Hobby Professor of History at Rice University. Dr. Hyman, who is an eminent Civil War historian, spoke on "With Malice Toward Some: Scholarship (or Something Less) on the Lincoln Murder."

e. The following professors were guest lecturers in the History 320 course "The Minority in History."

Their lectures were open to the public:

Eugene Genovese, University of Rochester: "Afro-American Slave Revolts in the Revolutionary Era"

Thomas Holt, Harvard University: "The Problem of Freedom: The U.S. and the British West Indies After Emancipation"

Arvarh Strickland, University of Missouri: "Black Migration in the 20th Century"

Joan Jensen, New Mexico State Univ.: "Women and Work in Four Cultures"

Kathryn Kish Sklar, UCLA: "Female Strategies in Victorian Families"

Elsa Chaney, AID: "The Status and Condition of Women in Latin America"

Ralph Vigil, University of Nebraska: "Chicano Identity and Culture and the Polarized Spanish Heritage"

Feliciano Rivera, San Jose State Univ.: "The Migration North from Mexico in the 20th century"

Felix Almaraz, University of Texas at San Antonio: "The Mexican-American in 19th Century U.S. History"

Juan Gomez-Quinoñes, UCLA: "Mexican American Labor, 1600-1900"

Rennard Strickland, University of Tulsa: "The Indian Image: From Savage to Savior"

Wilcomb Washburn, Smithsonian Institution: "Reconciling 'Traditional' Native American History with 'Critical' or 'Scientific' History"
f. Professor Steven Kramer will be co-Director of the French Summer School in Taos in the summer of 1978.

Several German-speaking History Professors also participated in the German Summer School in Taos last summer, including Professors Frank Ikle, Charles McClelland, and Gerald D. Nash.

g. The Department rewrote its Ph.D. Rules and Regulations, in order to reflect changing conditions in graduate studies.

h. The third issue of the departmental Newsletter, edited by Peter Kolchin, was distributed in January 1978. Four hundred copies were sent to other universities and History Ph.D. alumni.

i. An informal get-together for History undergraduate students was held in the departmental lounge on April 1. Approximately 100 History students and faculty attended.

j. The History Department held its annual dinner for faculty, staff and graduate students on April 28, 1978, in conjunction with the Phi Alpha Theta History honorary society conference. The guest speaker was Professor Robert Larson, from Northern Colorado State University.

k. The History Department noted a slight decline in upper division enrollment, but an increase of 12 percent in lower division courses, with an over-all enrollment increase of 5 percent in the fall semester.
1. The Department polled its graduating seniors and found that, of those reporting, 30 planned to continue their education, five did not, seven were undecided. Of this group 20 planned to return to UNM. Fields they planned to study included: Education, 3; Law, 9; History, 9; Music, 1; Public Administration, 2; Business Administration, 3. Twenty-two planned to seek jobs upon graduation and 11 had job offers. The jobs ranged from Banking to the Marine Corps to library and editorial researcher.

m. The Department instituted a plan for non-traditional students enabling them to obtain an M.A. in History. This is primarily aimed at the student over 25 who perhaps is not able to work full time on a graduate degree. The Department hopes to attract into this program such individuals as housewives, military personnel, senior citizens, and persons who have not attended college in a number of years. It provides special consideration for admission within the minimal requirements of the Graduate Studies Center and special counseling by members of the History Department faculty.

3. Honors

a. The Phi Alpha Theta International History honorary society's William M. Dabney Award for the best paper read at a Phi Alpha Theta conference was awarded to Michael Casillas.
Raymond Burrola, Salome Hernandez, Roy Lujan, and Roberto Salmon were awarded Ford Foundation Fellowships for the academic year 1977-78.

c. Richard Melzer and Michael Pogany, Ph.D. candidates, were awarded NDEA (Title-VI) fellowships by Ibero-American Studies.

d. The Charles Florus-Coan award for the graduating senior with the highest GPA was awarded to David M. Montague, with a grade point average of 3.6.

e. Two Grunsfeld Awards were given to undergraduate History majors—Chantal Winkless and Frederick Melton.

f. A Graduate Tuition Fellowship was awarded Susan McHale.

g. The John F. Kennedy awards to graduate students working in the field of Southwestern History, were given to Thomas Chavez and James Stensvaag.

4. Teaching Positions Held by 1977-78 Graduates: Ph.D.'s

a. Richmond Clow, Yankton College, South Dakota

b. Brian George, University of Colorado, Boulder

c. Darlis Ann Miller, New Mexico State University

d. Roberto Salmon, Western New Mexico State University, Silver City

e. Steven Sayles, University of Texas, Arlington

f. Veronica Tiller, University of Utah, Salt Lake City

g. Raymond Wilson, Sam Houston State University, Huntsville, Texas
B. Significant Plans and Recommendations for the Near Future


2. To attract more non-traditional students by offering late afternoon and evening classes.

3. To offer more courses in Spanish in order to comply with new state requirements for Bi-lingual Education credentials.

C. Appointments to Staff

1. Visiting or Part-time Appointments
   a. John Johnson, Professor of History at Stanford University, Latin American History, Semester I, 1977-78.
   c. Cortez Williams, Blacks in Latin America, Semester I, 1977-78.

2. New Faculty Appointments
   a. Professor Manuel Servin, retired due to illness, to Adjunct Professor, Fall 1977.
   b. Richard W. Etulain, to assume duties as Professor of History and Editor of the New Mexico Historical Review in Fall 1979.
c. Frank M. Wozniak, Appalachia State College, replacing
Grietje Sloan, Visiting Assistant Professor in Western
Civilization, Fall 1978.

3. **New Staff**
   a. Avis Trujillo, Secretary, 8/25/77.
   b. Patricia Cleve, Secretary, 10/14/77.

4. **Promotions**
   none

D. **Separations from Staff**
   1. Manuel Servin, retired due to illness, August 1977.
II. Composite of information requested on individual biographical supplements: (period January 1 - December 31, 1977).

1. ADVANCED STUDY

CONNIFF, Michael L. 
Attended Scholar-Diplomat program on Latin America, April 2, 1977, sponsored by U.S. Department of State, Washington, D.C.

2. SABBATICAL, SUMMER TEACHING, TRAVEL, ETC.

BERTHOLD, Richard M. 
June and July spent examining Greek and Roman antiquities in southern Italy and Sicily.

CONNIFF, Michael L. 
Taught seminar in research methods at Pontifical Catholic University of Rio de Janeiro, Brazil, also conducted research in Brazil over the summer of 1977.

KERN, Robert W. 

KRAMER, Steven Philip 

LIEUWEN, Edwin 

McALLISTER, Paul E. 
Summer travel for research on 19th century political behavior: Columbia and St. Louis, Mo.

McCLELLAND, Charles E. 

MASH, Gerald D. 

PORTER, Jonathan 
Sabbatical leave, Fall and Summer.

RABINOWITZ, Howard 
Sabbatical leave Fall 1977; conducted research in Montgomery, Alabama, Jan. 1977.

ROBERTSON, W. Glenn 
Summer trip to visit Civil War battle sites in Tennessee and Virginia--gathered material for Civil War class.

SKABELUND, Donald 
Sabbatical leave, 1977-78.

Travel to New England during the Summer of 1977 for research at several libraries there.

3. NEW SCHOLASTIC HONORS

SPIDLE, Jake W.


SZASZ, Ferenc

Travel to New England during the Summer of 1977 for research at several libraries there.

CONNIF, Michael

Two research grants from Research Allocation Committee. One research grant from American Philosophical Society.

DABNEY, William M.

Educator of the month, Las Campanas, September 1977; Honorary member of Phi Eta Sigma, freshman honorary, 1977.

KRAMER, Steven

Grant from Research Allocations Committee for research in Belgium.

McClelland, Charles E.

Grant-in-aid from American Philosophical Society.

PORTER, Jonathan

A.C.L.S. Grant for research in Chinese Civilization.

RABINOWITZ, Howard


ROBBINS, Richard

Participant in Summer Research Laboratory at Russian and East European Center, University of Illinois, July 1977.

ROEBUCK, Janet

Inducted into Phi Kappa Phi national honor society.

SLAUGHTER, M. Jane


SPIDLE, Jake W.

International Research and Exchanges Board Fellow, Exchange Scholar with the German Democratic Republic, 1976-77.
4. PUBLICATIONS

BOOKS

BAKEWELL, Peter J.


NASH, Gerald D.


ARTICLES

BAKEWELL, Peter J.


CONNIF, Michael


CUTTER, Donald

CUTTER (continued) (Both of the preceding items were also printed in El Palacio, Vol. 82, No. 4, pp. 19-41; "The Missions and their Legacy to San Antonio and the Borderlands" in Amaaz (ed.), Proceedings of the Missions of San Antonio – A Heritage for All Americans (Bexar County Historical Commission, San Antonio, 1976), pp. 28-41.

ELLIS, Richard


IKLE, Frank W.


REVIEWS

BAKEWELL, Peter

CONNIF, Michael

CUTTER, Donald
Escuela de Estudios Hispano Americanos, Anuario de Estudios Americanos, Vol. XXX. for Journal of the West; Warner and Chavez, The Domínguez-Escalante Journal, for Western Historical Quarterly; Espinosa, Inter-American Beginnings of U.S. Cultural Diplomacy for The Americas; Brackenridge and García-Treto, Iglesia Presbiteriana, for Catholic Historical Review; Echevarría and Otero (eds.), Hispanic Colorado, for The Colorado Magazine; Hardeman, Westward Calling: The Hardeman Family in the Westward Movement for The History Teacher; Hardy, Travels in the Interior of Mexico, 1825, for Hispanic American Historical Review; Bancroft Library, The Plate of Brass Reexamined, for Southern California Quarterly.
<table>
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<th>Name</th>
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IKLE, Frank W.  
Peter Duus, "History of Japan," Journal of Oriental Studies, Hong Kong;  

KERN, Robert W.  

KOLCHIN, Peter  

KRAMER, Steven  

McCLELLAND, Charles  

NASH, Gerald D.  
5. OTHER RESEARCH PROJECTS

PAUL M. BAKESSEL, Peter

Work in progress on a book about the silver mining industry of Potosí (Bolivia) 1545-1650.

BERNARD, Richard

Writing book on Rhodian history and studying an Hellenistic Greek inscription found in Morgantina, Sicily for possible publication.
CONNIF, Michael


DABNEY, William

Continuation of research on the Scots in the American Revolution.

ELLIS, Richard

Introduction to new printing of Land of the Spotted Eagle by Luther Standing Bear for the University of Nebraska Press; "Robert L. Bennett, Commissioner of Indian Affairs," chapter for a book on the Commissioners of Indian Affairs, edited by R. Kvasnicka and H. Vfola, to be published by the University of Nebraska Press.

IKLE, Frank

"Geopolitics Revisited: The Indian Ocean, Spring 1942-Scene of Lost Opportunity," paper to be presented at the Asian Studies at the Pacific Coast meeting in June 1978.

KERN, Robert


KOLCHIN, Peter

Two articles completed and accepted for publication in 1978: one in the Journal of Southern History and one in the Journal of Social History: continuing research on comparative study of American slavery and Russian serfdom.
KRAMER, Steven


LIEUWEN, Edwin

Research continues on biography of Alvaro Obregon.

McALLISTER, Paul

Continued research on politics: did computer analysis at University of Missouri-Columbia during summer. Compiled computer listing of Missouri newspapers in State Historical Society of Missouri. Research on process of creating national monuments (National Park Service).

McCLELLAND, Charles

Finished writing the substantial chapters of a book, State, Society and University in Germany, 1700-1914.

NASH, Gerald


PORTER, Jonathan

Completed article: "Foreign Affairs (Yang-wu) Expertise in the Late Ch'ing: The Case of Chao Lieh-wen"; article in progress: "Social Structure of Science in the Ch'ing Period"; monograph in progress: Science and Science in China, 1600-1900.

PUGACH, Noel


RABINOWITZ, Howard

"New Contributions in Black History," South Atlantic Urban Studies (forthcoming); continued research for article on black politician Holland Thompson of Montgomery; began research for book-

ROBBINS, Richard Continue to work on a study of Russian Provincial Governors, 1880-1905.


SKABELUND, Donald Continuing work on book manuscript, "Structure of Theory in Historical Perspective"; collection of notes on Mythopoeic vs. Rational thought.

SLAUGHTER, M. Jane "Women and the Italian Resistance," completed examination of materials at New York Public Library, and Hoover Institution; "Feminism and Socialism: Theoretical Debates from an Historical Perspective," article completed and under revision at present; co-author with Professor Kern for proposed reader on "Women and Socialism" in progress; co-authoring with Professor Roebuck an article on public policy and stereotypes of the Aged: Men and Women.

SPIDLE, Jake Research completed for monograph, "The German Colonial Empire, 1884-1918: An Administrative History"; research in progress on German role in history of tropical medicine; preparation of new course in History of Modern Medicine; gave colloquium (Fall 1977) on "Topics in the History of Modern Medicine."
Nearing completion of a monograph on Tournai in the period of the Regency of Margaret of Parma: continuation of research into the period (1559-1567) for the whole of the Netherlands; engaged in a translation of the Chronique of Pasquier de le Barre, a lengthy account of events in Tournai during the period of Margaret of Parma.

Completing historiographical study of problem of the ending of the Middle Ages.


"U.S. Policy Toward Latin America," Conference on Contemporary Latin America, University of New Mexico, April 1977, panel discussant; "Social Structure in Nineteenth Century Argentina and Brazil," Southern Historical Association meeting, November 1977.

Participation as a member of the UNM Faculty Seminar on Bilingual Education, consisting of weekly seminars and participation in teaching linguistics course; chairman of session at Western Social Science Association Conference, Denver; chairman of session at Rocky Mountain Council on Latin American Studies Conference, Tucson; attended Organization of American Historians Conference, Atlanta; attended Western Historical Conference, Portland; attended New Mexico Historical Conference, Las Cruces; attended 9th Annual Western Canadian Study Conference, Calgary, Canada; commentator of session at Pacific Coast Branch of American Historical Assn conference in Flagstaff; independent evaluator for National Endowment for the Humanities; reviewer for National Endowment for the Humanities Research Collections Programs; reviewer for National Endowment for Humanities Museums and Historical Organizations program; program consultant for National Endowment for the Humanities:
CUTTER (continued)
council member for Western History Assn.: presented paper at Symposium on the Art and History of Spain in America, Santa Fe; presented paper at Cultural Conflict in New Mexico Conference, Museum of Albuquerque; presented faculty workshop of Oral History at Cameron University, Oklahoma; chairman, Resolutions Committee, Pacific Coast Branch of American Historical Association.

DABNEY, William
Attended meeting of American Historical Association, Dallas, December 1977.

ELLIS, Richard N.
Paper, Society of American Archivists, October 1977; paper, Conference on Cultural Conflict in New Mexico, June 1977; chairman, History session, Western Social Science Assn., April 1977; chairman, Indian Studies Session, Western Social Science Assn., April 1977; chairman, Conference on Cultural Conflict in New Mexico, June 1977; chairman, Phi Alpha Theta Regional Conference, April 1977; attended meeting of Western History Assn., October 1977; chairman of sites committee of Western History Assn.; member of program committee of Western History Assn.; member of membership committee of Western History Association; member of membership committee of Organization of American Historians; Associate Editor, Red River Valley Historical Review; member of board of editors, American Indian Quarterly; member of board of editors, Teaching History; evaluated manuscripts for University of New Mexico Press, University of Nebraska Press, New Mexico Historical Review, Teaching History, and Indiana University Press; evaluated proposals for National Endowment for the Humanities and the National Historical Publications Commission; member of New Mexico Historical Records Advisory Board.

IKLE, Frank
IRE (continued)

KERN, Robert


KOLCHIN, Peter


KRAMER, Steven


LIEUWEN, Edwin

Attended American Historical Association meetings in Dallas, December 1977.

McALLISTER, Paul


McCLELLAND, Charles

invited to speak at the University of London, University of Munich, and Sixth Section of the Centre National de la Recherche Scientifique, Paris, but unable to appear because of scheduling difficulties.

Appointed to editorial board, *Agricultural History*; member, Committee on Bibliography, Western History Association, attended meeting in Denver, March 1977; member, Executive Council, American Historical Association, Pacific Coast Branch, attended annual meeting in Flagstaff, August 1977; chairman, session on Minority Rights at Conference on Minority Rights, Museum of Albuquerque, June 1977; attended annual meeting of Phi Alpha Theta, Dallas, December 1977, member of Executive Council; attended American Historical Association annual meeting, Dallas, December 1977.

"The Social Structure of Science in China during the Ch'ing Period," Western Conference for the Association of Asian Studies, October 1977; Executive Secretary, Western Conference for the Association of Asian Studies; member, Nominating Committee, Western Conference for the Association of Asian Studies.

Discussant, session on U.S.-China Relations: 20th Century, annual meeting of the Western Conference for the Association of Asian Studies, October 1977, Air Force Academy, Colorado; elected to the Nominating Committee of the Western Conference for the Association of Asian Studies, 1977-78.

ROBBINS, Richard

"Guarding the Guardians, Central Control Over the Russian Provincial Governors, 1880-1905," paper read at Southern Historical Association meeting, New Orleans, November 1977.

STRAUGHTER, M. Jane


SPIDLE, Jake

Attended American Historical Association, Pacific Coast Branch meeting, August 1977; served as commentator for panel on "Germany: the Interwar Struggle"; colloquium participant, "Deutscher Herrschaft in Kamerun," at Humboldt-Universitat, (East) Berlin, November 1977.

STEEN, Charlie

Attended meeting of Western Society for French History, served on the program committee for the past meeting; re-elected to the Advisory Board for the coming year.

7. OTHER PROFESSIONAL ACTIVITIES

BERTHOLD, Richard

Participation in design of a simulations game on the Battle of Marathon for Game Designers' Workshop.

CONNIF, Michael

Host for Ms. Joan Colbert, Western Regional Officer for Programs, Department of State, September 1977; host for Dr. David Smith, Latin American Specialist with the Department of State for three-day visit to campus and a number of public appearances, September 1977; host for Dr. Rolando Mallafe, Chilean Historian, for a two-day visit to campus, October 1977.

CUTTER, Donald

Spoke at University of Calgary; interviewed on Canadian Broadcasting System radio, Calgary; spoke to New Mexico Genealogical Society; spoke at Oakland Museum, Malaspina Conference; spoke to Albuquerque Corral of Westerners International; spoke to Graduate Club, Albuquerque; spoke at Oklahoma City Civil War Round Table; spoke at Bethany Nazarene College, Oklahoma City; spoke
CUTTER (continued)  
twice in the N.C. Pender Distinguished Lecturer series at Central State University, Oklahoma; spoke at Chaves County Historical Society, Roswell; TV interview for Asi en Nuevo Mexico, KXMN-TV (Ch. 23); spoke at fall meeting of New Mexico Council for Social Studies; taped TV program for Introduction to Social and Cultural History of New Mexico for University of New Mexico Department of Sociology, with Professor David; manuscript opinions for: The American West (three times), Pacific NorthWest Quarterly; named advisory editorial board member of Journal of the West (1977-80); named as consultant for Heritage of Aztlan Educational TV series.

DABNEY, William  
Referee for article submitted to The Historian; panel discussion, participant in session entitled "Conflict of Interest," May 1977, video-taped for presentation on educational TV; various talks on historical subjects; judge in Daughters of American Revolution state Good Citizens contest.

ELLIS, Richard  

IKEE, Frank  

KERN, Robert  
Elected to the Executive Board, Southwest Labor History Conference, two-year term.

KOLCHIN, Peter  
Talk on "American Slavery and Russian Serfdom: A Comparison," History Department Colloquium, Princeton University, April 28, 1977; Consultant for National Endowment for the Humanities, November-December 1977 (member of five-person panel to evaluate summer grant applications).

KRAMER, Steven  
McALLISTER, Paul

Provided advice on computer analysis for historical studies to individuals associated with University of Missouri-Columbia, summer (non-fee consultations).

McCLELLAND, Charles

Referee for American Historical Review and The Historian.

NASH, Gerald


PUGACH, Noel


RABINOWITZ, Howard


ROBBINS, Richard

Participated in TV discussion of Carter's first 100 days in office on KNME TV, May 1977.

ROBERTSON, W. Glenn

Judge, New Mexico American Legion History and Scrapbook Contest, summer, 1977; talk and demonstration on American Civil War at Valley High School, February 1977.

ROEBUCK, Janet

Reviewer for the Museums and Historical Organizations Program, Division of Public Programs of the National Endowment for the Humanities, Washington, D.C.; chairperson of Campus Evaluation Committee of the Fulbright Program.
SLAUGHTER, M. Jane


SPIDLE, Jake

Refereed articles submitted for publication to The Historian (April 1977), New Mexico Historical Review (December 1977) and Teaching History (June 1977); talk at Sandia High School, October 1977.

8. NON-TEACHING UNIVERSITY SERVICE

BAKEWELL, Peter

Library Committee (August 1977- ); History Department Curriculum Committee.

BERTHOLD, Richard

Faculty Senate Member; Student Standards and Grievances Committee.

CONNIF, Michael

Member of Graduate Advisory Committee, Department of History.

CUTTER, Donald

Served as acting editor of New Mexico Historical Review and as member of editorial board of same; member of Departmental Curriculum Committee and Placement Committee; Dean's Promotional Review Committee for Humanities; University of New Mexico Press Committee; Library Search Committee for Special Collections Director.

DABNEY, William

Graduate Advisor, History Department; chairperson, Arts and Sciences Graduate Committee and Liaison person from this committee to Senate Committee on Graduate Programs; member of Students Standards Committee.
ELLIS, Richard
Faculty advisor, Phi Alpha Theta; Director, New Mexico Oral History Project; Book Review editor, New Mexico Historical Review; acting chairman of board of editors, New Mexico Historical Review; judge for Calvin Horn Scholarship Contest; member of search committee for head of Special Collections, Zimmerman Library; member of search committee for editor of New Mexico Historical Review; member of search committee for opening in U. S. History; member of Departmental Graduate Advisory Committee.

KLE, Frank
Member, Research Policy Committee; chairman, Sub-committee in Interdisciplinary Research, RPC; member, Sub-committee on the Annual Research Lecture, RPC; chairman, Arts and Sciences Committee on Academic Programs; member, Selection Committee for Associate Provost for Research; chairman, Departmental Graduate Entrance Committee.

KERN, Robert
Curricula Committee.

KOLCHIN, Peter
Editor, History Department Newsletter, 1977-78; member, History Department Graduate Entrance Committee; member, History Department Salary Investigating Committee.

KRÄMER, Steven
Member, University of New Mexico Senate, 1977-78; member, Senate Graduate Programs and Standards Committee, 1977-78; member, Honorary Degree Committee, 1977-78; Co-Director, The French Summer School of New Mexico.

LIEUWEN, Edwin
Spring 1977, chairman, Arts and Sciences Tenure Committee.

McALLISTER, Paul
Member of sub-committee to meet with Albuquerque Public Schools Social Studies Department heads.

McCLELLAND, Charles
Chairman, Graduate Advisory Committee of the Department of History; Graduate Advisor, Department of History; member, Retirement and Insurance Committee of the University of New Mexico; member, Arts and Sciences' Ad Hoc Committee on Individualized Majors.
NASH, Gerald D.  
Editor, The Historian; chair of History Department.

PORTER, Jonathan  
Curricula Committee.

PUGAC, Noel  
Department of History Library Liaison; member, Research Allocations Committee (University Committee).

RABINOWITZ, Howard  
Member of Departmental Graduate Entrance Committee, Spring 1977.

ROBBINS, Richard  
Chairman, Russian Studies Program; History Department Graduate Advisory Committee, chair: University of New Mexico Speakers Committee.

ROBERTSON, W. Glenn  
Faculty Advisor to University of New Mexico Simulations Association.

ROEBUCK, Janet  
Member of: Academic Freedom and Tenure Committee; Athletic Council; Faculty Club Committee on Membership; College of Education Undergraduate Curriculum Committee; Faculty and Professional Women's Association; chairperson, Departmental Search Committee; advisor for Theater Arts Department Production of Room at the Top, Summer 1977.

SKABELUND, Donald  
Correlated work towards a Religious Studies Program (History, Philosophy, and Sociology Departments).

SLAUGHTER, M. Jane  
University Committees and service:  
Women Studies Committee; Equal Employment Opportunity Committee (Spring 1977); American Studies Committee; Committee of Five; Student Standards Committee; chair, Faculty Ethics and Advisory Committee; president, Faculty and Professional Women's Association (Spring 1977); co-chair, Faculty and Professional Women's Research Colloquia, 1977-78; adviser, student chapter of the National Organization for Women; search committee for Outstanding Women Scholar, 1977: Graduate Entrance Committee, Department of History; Search Committee, New Mexico Historical Review editor.
9. PUBLIC SERVICE

CONNIFF, Michael


CUTTER, Donald

MEMBER, BOARD OF DEACONS, IMMANUEL PRESBYTERIAN CHURCH; PANEL DISCUSSANT ON NEW MEXICO HUMANITIES COUNCIL CONFLICT OF INTEREST PROGRAM; CHIEF JUDGE, CALVIN HORN HIGH SCHOOL HISTORICAL ESSAY CONTEST; SPOKE TO SEEKERS SUNDAY SCHOOL CLASS, IMMANUEL PRESBYTERIAN CHURCH; SPOKE TO MUSEUM OF ALBUQUERQUE DOCENT TRAINING PROGRAM; SPOKE TO SEMINAR OF ARCHDIOCESE AT CENTRO PASTORAL, ALBUQUERQUE; SPOKE TO ALBUQUERQUE PUBLIC SCHOOL IN-SERVICE BILINGUAL EDUCATION PROGRAM, SPOKE TWICE AT GODDARD HIGH SCHOOL, ROSWELL.

DABNEY, William

MEMBER, LITURGICAL COMMISSION OF EPISCOPAL DIocese OF THE RIO GRANDE, AND QUITE A FEW OTHER CHURCH-RELATED ACTIVITIES.

IKLE, Frank

MEMBER, NEW MEXICO HUMANITIES COUNCIL; VICE-PRESIDENT, SWISS AMERICAN SOCIETY OF NEW MEXICO.

KRAMER, Steven

BOARD OF DIRECTORS, ALLIANCE FRANCAISE; CO-CHAIRMAN, COLLOQUIUM ON ADVANCED SOCIETIES.

McALLISTER, Paul

CO-SPONSOR SCHOOL PICNIC (ROCK BRIDGE ELEMENTARY SCHOOL, COLUMBIA, MISSOURI).

McCLELLAND, Charles

CONTRIBUTOR TO REVIEWS TO NEW MEXICO INDEPENDENT.
PUGACH, Noel

Member, Board of Directors, Jewish Community Council; member, Board of Directors, Experiment in Jewish Learning, member, Israel Sub-committee, JCCA; chairman, Chavura Hebrew School Committee.

SKABELUND, Donald

Address before The Sandians, a women's club; several talks before Latter Day Saints Faculty Seminar; appearance on KPME-TV, "UNM Voices."

SPIDLE, Jake

Advisor/Leader, College Ministry Group at First Presbyterian Church.

10. PERSONAL INFORMATION

McALLISTER, Paul

Married August 7, 1977.
REPORT OF THE NEW MEXICO HISTORICAL REVIEW

July 1, 1977 - June 30, 1978

Dr. Donald C. Cutter, Acting Editor

During the year 1977-1978, moving into the fifty-third year of its issuance, the NEW MEXICO HISTORICAL REVIEW published sixteen scholarly articles on a broad range of topics appropriate to the REVIEW's coverage and purposes. Authors represented established scholars from New Mexico and from outside the state, including the Universities of Nevada, Oregon, Nebraska, North Texas State, Indiana, and Alberta, as well as from superior graduate students.

Dr. Donald C. Cutter continued in the position of Acting Editor, with James T. Stensvaag as Assistant Editor, Dr. Richard N. Ellis as Book Review Editor and Nancy M. Brown as Staff Secretary. Editorial Assistants were Glenn R. Schwegmann and Carol L. Wilson. Among the Editorial Board, Dr. Donald W. Whisenhunt has moved from Eastern New Mexico State to Texas Eastern University. This position has been filled by Mrs. Alice King of Stanley, New Mexico, an enthusiastic advocate of our state's history.

A positive effort was made to amplify the range of reviewers and manuscript entries with great success. Reviews and articles show participation by a wide group of professional historians who have provided quality material and whose association with the REVIEW has brought definite benefits.
The Acting Editor through the course in Editing Historical Journals has provided professional growth and training for students of the history program and also assistance to the REVIEW in preliminary evaluation of articles and in various phases of editing. The Assistant Editor taught classes in the new copyright laws and editing mechanics. The exchange program with Zimmerman Library has continued to grow and over a hundred copies of the journal offset rising subscription costs faced by the Serials Department.

The REVIEW participated with the Museum of New Mexico in sponsoring the annual New Mexico Historical Society Conference. It was held jointly with the New Mexico Council of Social Studies Teachers' Conference and included presentations by professional historians, public school teachers, and other interested parties. Dr. Cutter and Dr. Ellis conducted a seminar on historical writing and preparation of essays for the Social Studies teachers in connection with the Calvin Horn New Mexico Historical Essay Contest. Other seminars were given by Dr. Cutter and Dr. Ellis for Albuquerque teachers and students interested in the contest. The REVIEW staff helped judge and award scholarships to the winners. Winning essays are being considered for publication in an upcoming issue of the REVIEW.
The Acting Editor and staff have conscientiously promoted the journal through a series of speeches and sales efforts through the year. Dr. Cutter has made numerous historical talks gaining many new readers for the REVIEW. TV and newspaper commentaries have featured Dr. Cutter and the REVIEW. The Assistant Editor featured the journal at the Western History Association Conference in Portland and the Western Social Science Conference in Denver; he also participated in a session for the WSSA. He has been primarily engaged in finishing his doctoral studies.

Carol Wilson, Editorial Assistant, displayed the REVIEW at the Phi Alpha Theta Regional Conference and delivered a paper there. She also assisted with sales at the New Mexico State Teacher's Conference. The entire staff in cooperation with Phi Alpha Theta, manned a booth in the Spanish Village during the New Mexico State Fair. Through membership and participation in the Albuquerque Historical Society, the Albuquerque Archaeological Society, the New Mexico Historical Society, the Albuquerque Museum Foundation, and other groups, the Secretary, Nancy Brown, and Editorial Assistant Glenn Schwegmann, have found many opportunities to promote the state's history and the REVIEW among a wide range of activities. As a result of their actions, the REVIEW received high visibility at the Annual Pecos and Gran Quivira Conferences, and the state meetings of the New Mexico Historical Society and Archaeological Society. Dr. Cutter addressed a session of the New Mexico Council of Social Studies Teachers; with
the REVIEW particularly being featured. He and Mr. Calvin Horn lectured on the History of Albuquerque at the Albuquerque Museum. Historic slides for their talks were prepared by Glenn Schwegmann. The REVIEW was available and drew much interest at the teacher's conference, the museum lecture, and will be present at a series of summer festivals in downtown Albuquerque. The historic slides gathered by Dr. Cutter's students and Glenn Schwegmann promise to be a valuable part of historic programs being made available by the REVIEW to area groups.

The goal of all activities has been the same: to gain a higher profile for the NEW MEXICO HISTORICAL REVIEW, while maintaining the scholarly reputation for which this journal has traditionally been noted. Success can be judged by the steadily lengthening subscription list, and from the diversity of activities in which the REVIEW's staff have been asked to participate.

Since Professor-Editor Cutter's activities are detailed in the History Department's annual report, they are only summarized here:

In his capacity as historian and acting editor of the REVIEW Professor Cutter carried out the following professional activities.
1. Named to Editorial Advisory Board of THE JOURNAL of the WEST.


3. Spoke at the following academic institutions: Central State University, Oklahoma (2), Bethany Nazarene College, Cameron University, University of Texas, El Paso and the University of Arizona.

4. Delivered papers or major talks at: Oakland Museum, the Smithsonian Institution (2), Banquet of the Pacific Northwest History Conference, New Mexico History Conference, Banquet of Colorado History Group.

5. Interviewed on KMXN-TV, KNME-TV, KZIA radio, and taped for UNM Sociology Department.

6. Spoke to various service groups as follows: The Graduate Club, Oklahoma City Civil War Round Table, New Mexico Council of the Social Studies, Goddard High School (2), Chaves County Historical Society, St. Andrew's Presbyterian Church, Horn Essay Contest Luncheon and Seminars, Immanuel Presbyterian Church, New Mexico Mensa, Museum of Albuquerque, Rotary Club of Bernalillo, Sons of the American Revolution, Albuquerque, Regional Conference of the Alianza Federal.

7. Attended Western History Association Conference, Portland and Spring Council meeting of same in Denver.
I. General Information

A. Highlights of the 1977-78 Academic Year

1. Faculty and Administration.

In its fifth year of operation the Department continued with a budgeted faculty of 2.83 FTE: Assistant Professor Alan Hudson-Edwards (fulltime), Associate Professor Garland D. Bills (.50 Linguistics, .50 Modern and Classical Languages), Associate Professor John W. Oller, Jr. (fulltime), and Professor Bernard Spolsky (.33 Linguistics, .67 Graduate Studies).

In addition, Robert W. Young (director of the Navajo Dictionary Project) held a non-probationary non-salaried appointment as Professor of Navajo Linguistics, and Rodney W. Young (director of the Testing Division) held a similar appointment as Assistant Professor of Linguistics. Assistant Professor Larry Gorbet (Anthropology) and Professor Vera John-Steiner (Educational Foundations) held non-budgeted joint appointments in Linguistics.

The Voting Faculty of the Department for 1977-78 included the preceding persons and Professors Fred Chreist (Communicative Disorders), Robert White (Secondary and Adult Teacher Education), and Miles Zintz (Elementary Education); Associate Professors Dean Brodkey (Elementary Education) and Roy Pickett (English); and Assistant Professors Carol Conrad (Psychology) and Leroy Ortiz (Elementary Education).

All members of the Voting Faculty contributed importantly to the administrative functioning of the Department. Most served with dedication on one of the three standing committees:

Policy Committee: Gorbet, Oller, Pickett, Spolsky, Bills.

Graduate Committee: Brodkey, Chreist, John-Steiner, White, Bills.

M.A. Examination Committee: Conrad, Hudson-Edwards, Rodney Young.
In addition, Hudson-Edwards served as undergraduate advisor, Bills as graduate advisor, Brodkey as library representative, and Oller as faculty advisor to the Duke City Linguistics Circle.

The Department's functioning was also assisted by the still broader interdisciplinary input of thirteen Associated Faculty: John Bergen (Modern and Classical Languages), Philip Bock (Anthropology), Victor Bolie (Electrical Engineering and Computer Science), Dolores Butt (Communicative Disorders), Matthieu Casalis (Philosophy), Jean Civikly (Speech Communication), Rosa Fernández (Secondary and Adult Teacher Education; added in 1977-78), Marlis Mann (Elementary Education), Charlene McDermott (Philosophy), Bruce Porch (Neurology/Psychology/Communicative Disorders), Scott Rushforth (Anthropology), Ellen Spolsky (English), and Marta Weigle (Anthropology).

2. Faculty Research and Service.

The Department continued to house two major sponsored research projects. Professor Hudson-Edwards' Voting Rights Project supported by a $100,000 grant from the Federal Election Commission will continue until August. The $120,000 in NEH support for Professor Robert Young's Navajo Dictionary Project was concluded last November, though he continues the preparation of the dictionary for publication by UNM Press.

During the 1977 Summer Session the Department housed fourteen college teachers who participated in Professor Spolsky's $40,000 NEH-sponsored seminar on the social and individual aspects of bilingualism.

Exceptional service to professional organizations by Voting Faculty during the past year included: Professor Spolsky, president of the international TESOL organization and Secretary-Treasurer of the American Association of Applied Linguists; Professor Oller, executive committee of the international TESOL organization; Professor Bills, president of the Linguistic Association of the Southwest; and Professor White, president of the New Mexico TESOL association.

At the undergraduate level, an accounting of majors and minors remains as nebulous as ever. There were approximately ten declarations of an intended major in Linguistics for 1977-78. Graduating this spring in the College of Arts and Sciences were apparently no majors and three minors in Linguistics.

At the graduate level, in the second year of operation of the M.A. in Linguistics, there were eight students officially admitted and enrolled in classes. Two of these completed all requirements for the M.A. this spring; one (Karin Goldstein) plans to return to a position teaching English and Spanish at the secondary level in the Albuquerque Public Schools, and the other (Allison Hudson-Edwards) intends to continue as a language skills instructor at the University of Albuquerque while pursuing further graduate study in speech pathology at UNM.

The Department's contribution to M.A. and Ph.D. programs in other units remained high in 1977-78. Among those completing their degrees with an emphasis in linguistics were one M.A. in Anthropology (James Hamilton, who will enter the doctoral program in linguistics at the University of Texas), one M.A. in Philosophy (James Cranfill, who will continue his studies at UNM), and one Ph.D. in Educational Foundations (Fairlee Carroll, who has accepted a teaching position in ESL at Northern Arizona University).

One M.A. candidate in Linguistics (Tim Analla) held a Title VII Bilingual Education Fellowship in 1977-78.

Nan Elsasser, an Educational Foundations Ph.D. candidate emphasizing linguistics, has been awarded a Fulbright-Hays junior lectureship for 1978-79 at the College of the Bahamas, Nassau.
4. Lectures and Visitors.

The Duke City Linguistics Circle, a student organization advised this year by Professor Oller, continued to assist the Department in arranging and promoting varied linguistics activities, including ten lectures on diverse aspects of the language sciences. These lectures were given by three outside speakers:

Charles-James N. Bailey (Technische Universität Berlin), "The Role of Language Mixture in the New Historical Linguistics"
Peter Stravens (Wolfson College, Cambridge), "Notional/Functional/Communicative Progress and Confusion in Syllabus Design"
William Wonderly (American Bible Society), "Some Principles and Problems in Bible Translation"

by four UNH faculty members:

Carol Conrad (Psychology), "Integration of Semantic Information Across Languages in Spanish/English and Navajo/English Bilinguals"
Larry Gorbet (Anthropology/Linguistics), "Primate See, Primate Do: Thoughts on the Pragmatics and Phylogeny of Quotation"
John Oller (Linguistics), "How Much of the Variance in IQ Tests Is Genetically Determined?"
Scott Rushforth (Anthropology), "Aspects of Communication Among the Bear Lake Indians: Speaking to Relatives through Marriage"

and by three UNM graduate students:

Fairlee Carroll (Educational Foundations), "Cerebral Dominance for Language: A Dichotic Listening Study for Navajo-English Bilinguals"
James Granfill (Philosophy), "Remarks on Logic and Language"
Hooshang Mehrnoosh (Secondary and Adult Teacher Education), "Teaching English as a Foreign Language in Iran"

The Department also co-sponsored (in cooperation with several other units) two major lectures on semiotics this spring:

Thomas Sebeok (Indiana University), "Clever Animals and Dumbfounded People: A Semiotic Analysis"
Jonathan Culler (Cornell University), "The Semiotics of Literature"

The Department also profited from on-campus activities of the New Mexico TESOL Association, including a talk in "New Directions in TESOL" by James Alatia (Georgetown University), whose visit was arranged by Professor White.
6. Facilities.

Minor renovations now being made in the Department's main office will add a few feet of badly needed space and finally provide faculty mailboxes. The renovation will also provide more controlled access to the Department's library room which (though still cramped with remnants of the Navajo Reading Study) has developed over the past year into a widely utilized resource for linguistics' students and faculty. The creation of the library room and the main office renovations have alleviated some of the space needs. However, the Department still has to utilize four offices in Marron Hall for research activities.

7. Degree Programs.

The requirements for the B.A. major and minor were slightly modified this year. Ling 470 (History of Linguistics) was deleted as a requirement for both the major and the minor. Introductory courses in sociolinguistics (351) and psycholinguistics (367 or 362) were added as requirements for the major. Only courses numbered above 200 will now be counted for the major or minor.

The Department also decided this year to limit to a maximum of twelve the number of active candidates in the M.A. program.


UNM's Intensive English Institute, under the direction of Professor Brodkey and Professor Gerald Slavin, has been established and will begin offering instruction in English for foreign students next fall. Recognizing the importance and relevance to linguistics of this Institute, the Department will cooperate with the Institute in the appointment of instructors.
B. Plans and Recommendations for the Future

1. Doctoral Program

Over the past year the Department played an active role in the development of a proposal for an Educational Linguistics concentration within the COE doctoral program. This innovative interdisciplinary concentration represents a crucial stabilization and strengthening of one of the Department's central goals in doctoral training. The widely applauded proposal has not yet been approved. Achieving final approval of the proposal and initiating the program remain a major planning objective for the near future.


In December the executive committee of the Linguistic Society of America accepted UNM's proposal to host the Society's 50th annual Linguistic Institute during the 1980 Summer Session. The planning committee under the direction of Professor Bills will now devote its energies over the next two years to working out the details of this major activity.

C. Appointments to Staff

Effective 1977-78, Professor Gorbet (Anthropology) was given a non-budgetary joint appointment in Linguistics without presumption of tenure, and Professor Rodney Young (Testing Division) was awarded a non-budgetary, non-probationary appointment in Linguistics.

Professor Ortiz (Elementary Education) was appointed to the Voting Faculty effective 1977-78, replacing Professor Macias.

D. Separations from Staff.

Upon the termination of his funded research position in November, Adjunct Professor Robert Young officially retired from the university. He will, however, continue his close affiliation with the Department as Professor Emeritus of Navajo Linguistics.

Professor Christ (Communicative Disorders), a founding member of the Voting Faculty, retired from the university this spring.
II. Faculty Information

The following provides information on the 1977-78 activities of only those members of the Voting Faculty who hold full or joint appointments within the Department. Information is current only to December 31, 1977.

2. Sabbaticals, Leaves of Absence, Travel, etc.
John W. Oller: Visiting Professor, Concordia College, Montreal, Summer 1977.

4. Publications:


"Attitudes and Attained Proficiency in ESL: A Sociolinguistic Study of Native Speakers of Chinese in the United States."

"Attitudes and Attained Proficiency in ESL:


Bernard Spolsky:


"The Establishment of Language Education Policy in Multilingual Societies." In Frontiers of Bilingual Education (above), pp. 1-21.


Rodney W. Young:


5. Other Research Projects or Creative Work.

Alan Hudson-Edwards:

Vera John-Steiner
Gender-Linked University Teaching Styles. "NM Research Allocations Committee.

Bernard Spolsky:

Rodney W. Young:
Second Annual Report on Undergraduate Assessment Program.
Retention at the University of New Mexico: Two Studies.
6. Activities in Learned and Professional Societies.


President and chair of Program Committee, Linguistic Association of the Southwest, 1977.

Session chair, Southwest Areal Languages and Linguistics Workshop VI, Long Beach, April 1977.

Discussant, panel on linguistic theory, Border Linguistics Circle meeting, Las Cruces, April 1977.

Also attended: summer meeting of Linguistic Society of America, Honolulu, August 1977; annual meeting of Linguistic Society of America, Chicago, December 1977.


Invited participant, Third Yuman and Hokan Languages Workshop, Salt Lake City, June 1977.


Speaker, NMAEYC, Albuquerque, March 1977.


Study group speaker, University of North Dakota, September 1977.
John W. Oller:

"Pragmatic Expectancy Grammars—toward Psychological Realities." Invited lecture, Purdue University, January 1977.


"Research on the Acquisition of Language Proficiency." Invited lecture, University of Illinois, Champaign-Urbana, March 1977.

"How Important Is Language Proficiency to IQ and Other Educational Tests?" Keynote address, First International Conference on Frontiers in Language Proficiency and Dominance Testing, Southern Illinois University, Carbondale, April 1977.


Bernard Spolsky:


"Separatism, Cultural Pluralism and Bilingual Education." Invited lecture at Four Corners State Conference, Santa Fe, September 1977.

"Functional Literacy and the Linguistic Minority Student." Keynote address at annual conference of Florida Association of TESOL, Coral Gables, November 1977.

"Now that We're 'of age'--What's the Plan for Tomorrow?" Keynote address at National Elementary Education Association convention, San Francisco, December 1977.

Member, Editorial Board, Studies in Second Language Acquisition. President-elect, Teachers of English to Speakers of Other Languages. Secretary-Treasurer, American Association of Applied Linguists.

Rodney W. Young:


7. Other Professional Activities


John W. Oller: Consultant on adult education and teaching of English as a second language, St. Louis City Schools.


Rodney W. Young: Consultant, English Language Skills Laboratory, West Virginia State College.


Vera John-Steiner: Multicultural Committee, College of Education. Honors Council Tenure and Promotion Advisory Committee, College of Education. Graduate Committee, Linguistics.

Bernard Spolsky: Dean, Graduate Studies. Policy Committee, Linguistics.


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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>Vera John-Steiner</td>
<td>Occasional consultant, Santa Fe Women's Health Center.</td>
</tr>
<tr>
<td>John W. Oller</td>
<td>Participated in revision of constitution of Grace Community Church, Albuquerque.</td>
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</tbody>
</table>
During the academic year 1977-1978 the Department provided instruction to 10,922 students totalling 35,346 credit hours. This is an increase of 342 students and 1,172 credit hours compared to the Academic year 1976-1977.

I. GENERAL DEPARTMENT INFORMATION.

A. SIGNIFICANT ACHIEVEMENTS.

Departmental faculty members were active in organizing conferences and meetings this past academic year. Richard Griego and David Sanchez were co-directors of a $12,000 NSF-funded Conference on Deterministic Differential Equations and Stochastic Processes Models in Biology that was held at the D. H. Lawrence Ranch near Taos in August. Several faculty members and students joined the more than sixty biologists and mathematicians who participated in this highly successful week-long conference. The conference was sponsored by the Rocky Mountain Mathematics Consortium and the proceedings of the conference will constitute a special number of the Rocky Mountain Mathematics Journal.

A very successful regional meeting of the Society for Industrial and Applied Mathematics was organized by Cleve Moler together with Mel Scott of Sandia Laboratories. The three-day meeting was held at the Hilton Inn in Albuquerque in November, and many members of the Department attended the activities of the meeting.
Our Department gained national recognition when Abe Hillman was named Editor of the Problems Section of the American Mathematical Monthly. Dr. Hillman's editorship follows his outstanding tenure as Director of the National Putnam Mathematics Competition. These activities of Dr. Hillman have brought considerable prestige and exposure to our Department.

A most important development was the approval by the Department of a newly revised graduate program. The Graduate Committee under the capable leadership of Cleve Molez formulated the new academic program after a year's worth of work. All faculty members were given ample opportunity to express their views and the new program has the unanimous support of the Department. The main features of the new graduate program provide for semi-independent, semi-autonomous programs in three subject areas: applied mathematics, pure mathematics, and applied statistics. Emphasis has been given to establishing serious professional degrees at the Master's level so that a Master's degree will not be only a consolation prize for those who do not obtain a Ph.D. Our Ph.D. programs are designed to continue the bases established at the Master's level. Each of the three graduate programs will have its own Director of Graduate Studies. A feature of the programs in Applied Mathematics and Applied Statistics is a five credit hour practicum that students will be required to complete. The practicum will be an interdisciplinary project that could be accomplished in a variety of ways - summer employment in industry, academic year work with another department on campus, etc. An advisory board of mathematicians working in industry and governmental laboratories has been formed to aid us in establishing practica for our students and in giving us advice on our new program. The low number of graduate students
in our Department in recent years has been a source of concern. It is hoped that the new graduate curricula will attract large numbers of new graduate students that we so badly need in order to maintain a lively, viable graduate program.

The Department received support from several sources for the purpose of improving underrepresented minority group participation in the sciences and mathematics. The Department administers the NIH-funded, $86,000 per year Minority Access to Research Careers (M.A.R.C.) Program. Dr. Griego is project director of the Program and four other faculty members are faculty participants: Drs. Bourgin (visitor) and Sanchez of Mathematics, Dr. Taylor of Biology, and Dr. Harpending of Anthropology. Nine students participated in this undergraduate research training program this first year. Funding for the M.A.R.C. Program is slated for five years, subject to renewals on a yearly basis.

Dr. Griego was director of a $50,000 planning grant to attract to the University of New Mexico a $2.8 million NSF grant for a Resource Center for Science and Engineering. This Center would establish a regional program to stimulate participation of minority and low-income groups in the sciences and engineering. At this writing, UNM is one of three finalists for the Resource Center grant.

The Department has received three graduate fellowships for minority or women students from NSF as part of a Title IX program. These fellowships will begin in the Fall of 1978 and last for three years.

Dr. Griego this last academic year supervised three minority students (one undergraduate, two graduate) on research projects as part of the Minority Biomedical Support Program.
Finally, the Department has participated in offering summer courses especially for Native American teacher trainees under the auspices of a College of Education Program. Mike Bevacqua taught Math 109 at Abiquiu last summer and he is teaching the same course this summer on campus for this program.

An effort to reorganize Math 180-181, Calculus for the Social and Biological Sciences, was initiated this year. Dr. Griego taught a special section of Math 180 during Semester II that was restricted to life science majors. It is expected to develop a calculus course for life science majors and a separate one for social science and business majors. Dr. Sanchez also taught a special course-seminar in biological mathematics that should aid in the development in a post-calculus course in mathematical methods for biology. Both of these courses were financed by release time provided by the M.A.R.C. Program as part of the Program's curricular development projects.

There have been two very serious developments regarding sabbaticals recently. The first is that, according to a Regent's policy, our department will be restricted to four sabbatical leaves during any one semester. For a department our size, it occurs that as many as six persons become eligible for a full sabbatical during certain years, and this is without counting those who may wish to take a half-sabbatical during a given semester. This restriction strikes the Department as arbitrary and lacking in good academic sense. The number of people wishing to take some sort of sabbatical leave may fluctuate from zero to eight, but the average number of sabbaticals has been somewhat less than three full-time sabbaticals in recent years.
Another development regarding sabbaticals has been the loss by the Department of that portion of a faculty member's salary that is not paid to the faculty member during his/her sabbatical leave. For example, when a faculty member goes on a full sabbatical leave, he receives 2/3 of his salary. It has been the policy in recent years that the remaining 1/3 of the salary was remanded to the Department. This money was usually used to hire visiting faculty to replace in part the person on sabbatical leave. According to a new policy, departments can no longer count on this money. It may be that a department can eventually recover an unspecified portion of these funds, but they are not to be counted on in advance. This makes planning for visiting professors practically impossible, since one needs to make arrangements with visitors well in advance of their visits. Under the current policy, it will be difficult to support visitors. This will have a very deleterious effect on the vitality of the department. Visitors bring new life and ideas into the Department if only for a short period. We very much need the input of visitors. It is hoped that something can be done to change the present policy.

There was concern from the central Administration (and within the Department too!) about the large class sizes in mathematics courses, especially at the more elementary level. A corollary concern has to do with the relatively low teaching loads in the Department in comparison to other departments. As a result, the Administration allocated a new tenure-track position at the beginning Assistant Professor level provided the Department utilizes this position to 'significantly' reduce the sizes of classes. This position will be filled for the 1979-80 academic year.
Also, the Department this year created the new Committee on Teaching Loads that is charged with establishing policies and procedures for determining the teaching load of faculty members. The committee also implements these policies and procedures in specific cases in consultation with the Chairperson. Indeed, on the basis of deliberations so far, the teaching loads of five faculty members who were deemed as insufficiently productive in research have been raised to 9-10 load units per semester (as opposed to 6-7 load units for those active in research).

The second three year contract for Moshe Shaked was denied by the Department and he will be leaving for a tenure track position at the University of Indiana.

Stanly Steinberg was granted tenure.

Archie Gibson was promoted to Full Professor.

The Department had four visitors this year. They were:

- Thomas McCoy of Michigan State University; Richard Bourgin, Semester I and II; Adrian Bondy of the University of Waterloo; and Bernardo Wolf of IMASS of the National University of Mexico - Semester II only.

- David Sanchez joined our staff as a Full Professor.

The Department colloquium series featured 28 speakers this year. Speakers came from such U.S. schools as the Universities of California, Colorado, Michigan, Pittsburgh, and Texas, and the State University of New York. Foreign speakers were from Australia (University of Sidney), Canada (Universities of Victoria and Waterloo), Italy (University of Bologna), Hungary (Academy of Sciences), Mexico (IMASS), and Poland (Silesian University). Other speakers came from industry (Sandia Laboratories, Tektronix Inc.)
Enrollment figures for Graduate Students are listed for the past ten years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Full time students</th>
<th>Part time students</th>
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<tbody>
<tr>
<td>1977-78</td>
<td>30</td>
<td>11</td>
</tr>
<tr>
<td>1976-77</td>
<td>37</td>
<td>17</td>
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<tr>
<td>1975-76</td>
<td>46</td>
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<td>1970-71</td>
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<td>1969-70</td>
<td>57</td>
<td>46</td>
</tr>
<tr>
<td>1968-69</td>
<td>55</td>
<td>37</td>
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</table>

Enrollment for Undergraduate Math Majors for past seven years:

<table>
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<tr>
<th>Year</th>
<th>Majors</th>
</tr>
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<tr>
<td>1972-73</td>
<td>118</td>
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<tr>
<td>1971-72</td>
<td>115</td>
</tr>
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<table>
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<tbody>
<tr>
<td>Ph.D.</td>
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<td>6</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>9</td>
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<tr>
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<td>7</td>
<td>5</td>
<td>4</td>
<td>8</td>
<td>19</td>
</tr>
<tr>
<td>B.S.</td>
<td>20</td>
<td>32</td>
<td>30</td>
<td>35</td>
<td>24</td>
<td>36</td>
</tr>
</tbody>
</table>

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

The main future priority of the Department is the rejuvenation of its graduate program by means of the recent changes in the graduate curricula. Elements of the new program that will need support are as follows:

(1) Practica: means by which practica can be organized for graduate students need to be established; hopefully, some practica will be accomplished through summer jobs in industrial or governmental laboratory settings. This will take organization and commitment on the parts of the administrations of both parties--university and industry. The University
Administration could play a vital role in arranging agreements with the appropriate levels of the administrations of the cooperating laboratories. For example, an incentive system for laboratory employees will have to be established whereby they will gain certain benefits, or at least not be adversely affected, if they agree to supervise students in their practica. Also, intrauniversity practica will need to be established with other university departments.

(ii) Adjunct faculty: It is hoped that a number of adjunct faculty can be associated with the Department on a regular basis. These adjunct faculty would be scientists from other institutions that would perform any of a variety of functions for the Department: present colloquia and/or seminars, teach classes, supervise practica, serve on dissertation committees, advise on curricular development, interact with faculty and students, etc. These scientists could, for example, be senior retired faculty from other universities, staff members in industry or governmental employees. Leave arrangements for those still actively employed would have to be organized.

Adjunct faculty members could play a vital enrichment role for both students and regular faculty.

Financial support for adjunct faculty positions would have to be secured—perhaps in part from outside sources, and in part from internal sources.

(iii) Advisory committee: A committee of staff members of Sandia Laboratory and the Los Alamos Scientific Laboratories has been formed to offer the Department advice on the development of its graduate program. The Committee has met once with members of the Department. While out-of-town Committee members financed their own trips to Albuquerque for
the first meeting, it would be appropriate to defray, at least in part, Committee members' expenses. It is hoped that the Committee will be expanded in the future.

(iv) Graduate assistants and teaching assistants: The expected increase in graduate student enrollment in mathematics/statistics due to the reorganized graduate program will necessitate an increase in support for additional G.A.'s and T.A.'s. G.A's could assume new roles in aiding in practica, statistical consulting, and the like.

(v) Faculty: An additional regular tenure-track faculty position has been allocated to the Department for the 1978-79 academic year as alluded to in a previous section. However, there is a string attached to the position. According to instructions from the Administration, this position must be used to aid in significantly reducing the size of the many large (more than 60 students) classes taught in the Department. This is an unprecedented restriction for a tenure-track position; however, the Department will comply with the announced policy. It is expected that the recently organized Committee on Teaching Loads will be able to institute policies whereby the teaching loads of some currently marginally research-productive faculty will be increased, with the effect that class sizes can be decreased (if adequate classroom space can be found!). The Administration is interested in the final effect of the total departmental effort as regards the reduction of class sizes, so that if the new teaching load assignment system is effective, then the string that is attached to the newly allocated position may be able to be removed and that position turned into a regular research position. This would be to the Department's benefit, and ultimately to our students' benefit, since there are gaps in some research areas that badly need to be covered.
If the newly organized graduate program proves to be successful to the point that graduate student enrollment is significantly increased, then there will undoubtedly be a need for additional regular faculty. That is our goal.

It is uncertain what is going to happen to student demand on the undergraduate level. Demand at the remedial and elementary level could decrease dramatically if a community college is established in Albuquerque. Nevertheless, it is certain that, in any case, considerable effort will need to be expended at the remedial-elementary level, irrespective of the future of the proposed community college. If there is indeed a significant loss of less prepared students to a community college, then the Department may not need all of the three current Master's degree level instructors.

It is anticipated that the increase in graduate level activity will have a positive effect on the number of undergraduate majors in mathematics/statistics. This increase at the undergraduate level would be welcomed by the Department, since most certainly a significant number of these majors would then funnel into the graduate program.

The efforts of the Department to diversify its offerings at the undergraduate level will undoubtedly attract increasing numbers of students to mathematics/statistics classes.

Also, the Department is currently exploring the possibilities of establishing cooperative programs with industry at the undergraduate level. If we are successful in establishing such programs, then this will be an attraction to students, with a concomitant increase in student enrollment and/or majors.
C. APPOINTMENTS TO STAFF.

Dr. Catherine Macken was given a tenure-track term appointment as a replacement for Moshe Shaked. This appointment is a beginning three-year appointment that can be renewed for another three years (and a tenure decision is to be made at the end of the second three-year appointment). The appointment is effective the academic year 1978-79.

Dr. Michael Frese and Carla Wofsy have been appointed to visiting positions for the 1978-79 academic year effective in August, 1978.

D. SEPARATIONS FROM STAFF.

Moshe Shaked resigned to assume a position as Assistant Professor at the University of Indiana. His resignation is effective at the end of the 1977 summer term.
II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS.

1. ADVANCED STUDY.

None

2. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, etc.

Alfred Carasso - Consultant, Los Alamos Scientific Laboratory, July 1977.


Reuben Hersh - Visiting Lecturer, U. of Montana, May


Pramod K. Pathak - Spent Spring and Summer visiting the Banach International Center for Mathematics, Warsaw Technical Univ. and Wroclaw University in Poland.

Ronald M. Schrader - Visiting Assistant Professor - Penn. State University, Summer 1977.

Moshe Shaked - Seminar De Mathematique Superieur, Montreal, June 20 - July 16, International Statistical Institute, New Delhi, India, Dec. 5 - Dec. 15.


3. NEW SCHOLASTIC HONORS, etc.

Archie Gibson - Selected by students to become an honorary member of Phi Eta Sigma, national freshman honor society.

Richard J. Grego - I have received four grants this past year: 1) NSF Grant for conference on mathematical biology; $12,000. David Sanchez was co-director with me.
Conference was held at the D.H. Lawrence Ranch from August 1 through August 5, 1977. Sponsored by the Rocky Mountain Mathematics Consortium. Proceedings of the conference are to be published by the Rocky Mountain Journal of Mathematics with myself and Dr. Sanchez as co-editors.

2) NIH Grant under the auspices of the Minority Biomedical Support Program for $33,510 for a three year period ... for the purpose of encouraging undergraduate and graduate minority students to pursue a career in the biomedical sciences. This is my own individual grant that is part of a much larger UNM-wide grant.

3) NSF Grant: Planning Grant for Resource Center in Science and Engineering; for $50,000 for seven month period. For purpose of writing a proposal for $2.8 million for a three-year period; to be submitted to NSF. I am principal investigator.

4) NIH Grant under the auspices of the Minority Access to Research Careers Program. Funded for $80,100 for one year with commitment to fund for additional four years (for total of $421,720). This is an honors program for support of undergraduate minority students in mathematical biology; there are curricular aspects of the program too (I am teaching a special section of Math 180-181 in order to plan a basic change in that sequence). Five professors and ten students are to be supported. I am principal investigator.

I also am co-principal investigator and co-director of a $20,000 grant obtained from the National Oceanic and Atmospheric Administration for the purpose of having a conference of Mexican American and Native American scientists in Boulder, Colorado in February 1978 (sponsored by the Society for the Advancement of Chicanos and Native Americans in Science).

4. PUBLICATIONS.


'Planar Channeling Spatial Density under Statistical Equilibrium', accepted for publication in the Physical Review (B1), w/S.T. Picraux (a revision and expansion of the above report).


David Sanchez: An iteration scheme for determining equations of dynamical systems (with D. Sweet), J. Applicable Anal. 6 (1977), 223-228.  
Statistical Inference ..., Communications in Statistics, A6, 1323-1339.  
Stanly Steinberg: Hyperbolic Equations on a Lie group (with R. Hersh). In preparation.  
The Abstract Cauchy Problem (with R. Hersh). In preparation.  
A Non-Parametric Approach to Accelerated Life Testing.  

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.  

Some Results on Vector Table Look-Up Procedures (w/B. Busbee, T. Jordan), submitted to ACM Trans. Math. Software

Alternations in Drug Kinetics During Cholestasis-Difference between a Cationic and Anionic Drug (w/R.C. Knodell, D.A. Brooks, W.T. Kyner) m.s. in preparation

A Method for Recovering the Matrix \( A \) in \( q' = Aq \), given \( q \) in Tabular Form (w/R.K. Wright), m.s. in preparation.

Kinetic Analysis of Human Beta Apoprotein in Genetic Hyper-Lipemia: Identification of a Role for Intermediate Density Lepo-Protein (w/R.P. Eaton, D. Schade), m.s. in preparation

Prevalence of Plasma Lepoproprotein Abnormalities in a Free-Living Population of New Mexico: Relationship to HDL Cholesterol (w/R.P. Eaton, J. Abrams, H. Ellis, L. Koopmans), m.s. in preparation

Co-investigator on National Heart Institute Research Grant (HE 120V5) Lipoprotein-Carbohydrate Metabolism (R.P. Eaton, principal investigator)

Michael Bevacqua: In Spring taught the second semester of "An Algebra course for Native Americans" for NAICOE. Funded by the American Society for Engineering Education. Also wrote the preliminary report on this course during the summer.


"Markov chains in random environments" in progress.

Ralph DeMarr: DSC-Pola with derivations, Proc. AMS (submitted)

DSC-Pola with homomorphisms, (in preparation)

D. W. Dubois: I joined with Prof. Harnick, Mann, and Darling in preparing an NIE proposal for studying Navajo arithmetic difficulties: 'Development of Navajo Children's Concepts of: Number and Numeration'. Not funded.

Gustave Efroymson: The following three papers were completed: "Nash rings on planar domains" "Sums of squares in planar Nash rings", both submitted for publication, "Real and p-adic varieties" accepted for publication by the Journal of Algebra.
In progress: a joint work with J. Bochnak (Geneva) "On the 17th Hilbert problem for Nash functions". Also soon to be written, "Riemann mapping for planar Nash domains".

'Momentum Density Calculations in Axial Channeling', to be submitted to the Physical Review (Bl), w/S.T. Chui and W.M. Gibson.

Investigating rate of approach to statistical equilibrium, electron multiple scattering and thermal vibrations in channeling.

Continued study of Quantum Mechanics and the Nature of Human consciousness.

Roger Entringer: Accepted for publication: "A Note on k-critically n-connected graphs" (with P.J. Slater), Proc. Amer. Math. Soc.
"A Theorem on Critically 3-connected Graphs" (with P.J. Slater), Nanta. Math.
'Characterizations of Graphs having Orientations Satisfying Local Degree Restrictions, (with L. Tolman), Czechoslovak Math. J. Four other papers submitted for publication.

Bernard Epstein: Employed as consultant in unclassified research (on approximate techniques for solution of non-linear problems of fluid dynamics) by Kirtland AFB.

"Long-range Invariance Principle Revisited" (with C. Chandler). Submitted.

"N-Body Quantum Scattering Theory in Two Hilbert Spaces." Parts III and IV with C. Chandler are in preparation.

Richard Grassl: The paper "Levi Structures for Polynomial Ideals" was submitted to the Pacific Journal of Math.

Also; in the same month (June '77) a joint paper "Functions on Tableau Frames" (w/A. Hillman) was submitted to Discrete Journal of Mathematics.

Invited to become a member of Board of Reviewers of T.Y. College Mathematics Journal.

Richard Griego: Transport approximation of diffusion processes and application to stochastic integrals (with Luis Gorostiza)
Liang-Shin Hahn: Sums of Distinct Egyptian Fractions (submitted)

Projects: Studies on Nevanlinna Class
Theory of Hyperfunctions

Reuben Hersh: NSF Grant GP 34188, Research on Operator Theory;

Abraham Hillman: A textbook: "A First Undergraduate Course in

Catrina Kiefe: "Investigacao Sobre un programa de Ciencias

L.H. Koopmans: An application of a Crossing Probability Bound

Statistical Study of Cholesterol Data from 1975-76 New Mexico State Fair (with R. Allen and P. Eton) work completed, study currently being written up for publication.

A Statistical Study of Pulmonary Arterial and the Sudden Infant Death Syndrome (with J. Fullilove) currently being submitted for publication in NATURE.

Work continuing on an elementary statistics textbook.

A simulation study of the operating characteristics of the procedure introduced in the first project above is underway jointly with P. Buslee.

W.T. Kyner: Research in Pharmacokinetics with R.C. Allen and R.G. Knodell

Research in Neurobiology with G.A. Rosenberg.


"Representations of Pseudo-lattice Ordered Vector Spaces" submitted for publication.

Merle Mitchell: Text for 338 in progress.

C.W. Onneweer: Differentiation of Fractional Order on p-Groups,
Approximation Properties (completed)

Differentiation on p-Adic or p-Series Field (completed)
Pramod Pathak: Work in progress in sample surveys, reliability, zero-one laws and statistical inference.


"Alternatives to the exponential spline in tension", to be submitted.


"L_1 Analysis of Variance," in preparation.


"Robust Multiple Comparisons" in preparation.

Moshe Shaked: Design of Accelerated Life Tests for Reliability of Dormant Components - Research supported by Sandia Laboratories. Grant is renewed at the amount of $13,066 10/1/78 - 9/30/78.

Alex Stone: Supervision of 2 dissertation students (Reardon & McNerney)

Work on a generalized Laplace operator and Frobenius Theorem (Differential Equations)

William Zimmer: A Sampling Plan for Controlling the AOQ between Bayes and Minimax.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES, (meetings attended, offices held, papers read, etc.)

Richard Allen: Presented paper 'Some results in vector table look-up procedures' at Regional ACM meeting in Albuquerque, NM, 10/78

Presented paper: 'Linear Compartment analysis of the uptake of materials by the liner', at the University of Nevada at Las Vegas, 12/5/77

Co-author of refereed paper, 'Alterations in drug kinetics during cholestasis: differences between a cationic and anionic drug' presented by R.K. Kildell at the American Association for the Study of Liver Disease in Chicago. 10/30 - 11/1/77.


Panel speaker at a MAA (Math Assoc. of Am.) meeting in Phoenix (March 1977)

Conference on Teaching Math to Indian People, held at UNM (Summer 1977)


AMS Annual meeting, Atlanta, Invited paper, Jan. 1978.

Invited talk, Tulane University, Jan. 1978.

Robert Cogburn: Referee for "Annals of Probability"

Ralph DeMarr: Group Algebras, AMS meeting, April, 1977.


Gustave Efroymson: Attended national American Math Society meeting in St. Louis and presented a talk on "Nash rings on planar domains".

James Ellison: Joint paper presented at March meeting of the American Physical Society in San Diego.

Attended Spring and Fall meetings of Society for Industrial and Applied Math. - Philadelphia and Albuquerque.

Joint paper presented at 3rd International Conference on Ion Beam Analysis in June in Washington, D.C.

Joint work presented at the 7th International Conference on Atomic Collisions in Solids in September in Moscow.


Bernard Epstein: Attended national meeting of SIAM (Society for Industrial and Applied Mathematics), Albuquerque, November.


Richard Grassl: Attended the MAA-AMS math meetings in California (Cal. Poly. St. Univ. at San Luis Obispo and presented the paper "Functions on Tableau Frames".

Richard Griego: Member, Council of American Mathematical Society (3-year term)
Attended annual meeting AMS in January, 1977 (includes council meeting) - also chaired a session on probability theory.


Attended meeting of Society for the Advancement of Chicanos and Native Americans in Science, Albuquerque, October.

Panelist, Series on 'Nuestra Cultura Hispanica - Muere o Vive?,' sponsored by New Mexico Humanities Council and Department of Modern and Classical Languages, November.

One hour invited talks (two), Fort Lewis College, January.

Theodore Quinn: Chairperson, SIAM Fall meeting, Albuquerque, Oct. 31 - Nov. 2, 77.

Attended Biomathematics Conference, Taos, Aug. 1-5.

Reuben Hersh: AMS New York meeting, April; SIAM meeting, Albq., November (Read paper on UNM TR 338)

Member, AMS Committee on Exchange of Information; Taos meeting on Biomathematics.

Abraham Hillman: Director of the William Lowell Putnam Mathematical Competition and member of the Two Year College Contest Committee of the Mathematical Association of America. Editor of the Elementary Problems Section of the Fibonacci Quarterly.


L.H. Koopmans: Assembled programs for the Western Regional Meeting of IMS held at Stanford in June and the Annual IMS meeting held in Seattle in August in the capacity of Associate Program Secretary of IMS for the Western Region.

Attended the Stanford meeting of IMS.

On editorial board for Communications in Statistics, refereed and transmitted papers for publication therein.

Attended meeting on Large Data Sets - Univ. of Texas, Dallas, February.

Visiting Lecturer Committee, Council of Presidents of Statistical Association.


Talk at annual NCTM meeting, Cincinnati, April, 1977.

Talk at regional NCTM meeting, Colorado Springs, October, 1977.

Steven Pruess: "Rational alternatives to the exponential spline in tension", paper presented at the fall meeting of SIAM, October 1977.

"Curve fitting algorithms", talk to Albuquerque SIGNUM Chapter, December 1977.

David Sanchez: Invited speaker, session on mathematical biology, AMS meeting in Hayward, CA, April 22, 1977.

Invited speaker, session on mathematical bioeconomics, AMS meeting, Seattle, August 18, 1977.

Member, Agenda Committee, AMS.

Ronald Schrader: "Robust ANOVA" - talk presented to ASA meeting, May 77, Santa Fe.

Alexander Stone: Reviewer for Math Reviews, Zentralblatt.

7. OTHER PROFESSIONAL ACTIVITIES

Richard Allen: Visiting staff member, Los Alamos Scientific Laboratory.

Michael Bevacqua: I teach primary and instrument flying.


D.W. Dubois: Made two patent applications: 'Rouelletes' & 'Marble Files' through UPI.

Participant in symposium 'Abelian Groups Bicentennial' at New Mexico State University. (Dec. 76--after last year's Biog. Report).

Teaching: Designed a new course (Math 339 for Elementary School Teachers) to be offered Spring 78.

James Ellison: I am a consultant to the ion-solid interactions group at Sandia Laboratories.

Roger Entringer: Reviewer for Mathematical Reviews and Zentralblatt für Mathematik.

Bernard Epstein: Refereed papers for several research journals; reviewed manuscripts for several publishers.
Archie Gibson: Reviewer of papers for Mathematical Reviews; UNM Speakers Bureau.

Richard Grassl: Presented several math topics, conducted problem solving sessions to APS schools, Jan. - April (six meetings total).

Richard Griego: Member, selection committee for National Chicano Council on Higher Education Post-doctoral Fellowships Program, February.

Site visitor - consultant, for Minority Biomedical Support Program, New Mexico State University, February.

Member, Executive Committee, National Chicano Council on Higher Education.

Member, National Advisory Board, National Chicano Council Research Network.

Keynote speaker, Hispanic Chamber of Commerce meeting, Albuquerque, November.

Site visitor - consultant, for Minority Access to Research Careers Program, Meharry Medical College and Tennessee State University, Nashville, Tenn., October.

Member, Society for the Advancement of Chicano and Native Americans in Science.

Liang-Shin Hahn: Participated in a seminar on several complex variables conducted by Professor Thomas McCoy.

Guest speaker to Math 495, 431 and 561.

Catarina Kiefe: Colloquium talk at Math Dept., Wayne State University

L.H. Koopmans: Consultations with Dr. Phillip Gary, UNM Med. School (with P. Buslee), several UNM students and faculty.

Merle Mitchell: North Central Ass'n Education (team member) for Menual School, April 1977.

Steven Pruess: Reviewer, referee for several mathematics journals.

David Sanchez: Co-director, Rocky Mt. Math Consortium meeting on Mathematical Biology, Taos, Aug. 1-5, 1977


Ronald Schrader: Talk presented at University of Texas at Dallas, Jan. '77.
Talk presented at Bell Laboratories, July '77.
Talk presented at Penn. State Univ., June '77.

Stanly Steinberg: Consulting scientist at Los Alamos Scientific Laboratories.

Alexander Stone: Colloquium talk at U. of Durham (May 1977)

William Zimmer: Statistical Consultant to a political campaign. Statistical consultant to a medical organization.

8. NON-TEACHING UNIVERSTY SERVICE.

Richard Allen: Director of Ph.D. dissertation - W. Vandevender; Co-director of Ph.D. dissertation - J. Morel; Master's Exam Committee member.

Laura Cameron: Coordinator - Math 120; remedial math coordinator; served on the Continuing Education Committee for UNM and Undergraduate Committee for Math. Dept.

Alfred Carasso: Graduate Committee - Development of new program in Applied mathematics.

Jeff Davis: New Mexico Math Contest

Ralph DeMarr: Travel Committee


Gustave Efroymson: Served on departmental committee to reorganize the graduate program. Member of Departmental Master's Exam Committee.

James Ellison: I am on several Ph.D. committees in both Mathematics and Engineering.

Roger Entsinger: Chairman A & S Natural Sciences and Mathematics Promotion Comm.

Member A & S Tenure and Contract Renewal Comm.

Member Faculty Library Comm. Chairman Periodical Routing Comm.

Bernard Epstein: Served as departmental colloquium chairman; served on one departmental tenure committee and one promotion committee.

Archie Gibson: Masters Examination Committee; Presidential scholar advisor.
Richard Grassl: Coordinator of 5 123 Math sections, (Fall 77)
Coordinator of 6 150 Math sections, (Spring 77)

Richard Griego: Member, Senate Executive Committee (Spring semester)
Chairperson, Senate Committee on Graduate Programs and Standards
Member, Provost Search Committee
Committee to select ethnic studies librarian
Director, Minority Access to Research Careers Program; I supervise two students on research projects in this program.
Director of a math component research project for the Minority Biomedical Support Program; I supervise two students on research projects in this program.
Director, Planning Grant for Resource Center for Science and Engineering, I have a staff of eight people.
Mathematics department graduate committee
Mathematics department committee to revise graduate curriculum
Member of the following students' masters or Ph.D. committees:
i) David Hunnicut (Education) - Ph.D.
ii) Gilbert Montoya (Education) - Ph.D.
iii) Arthur Nehrer (Electrical Engineering) - M.S.
iv) Andrew Sanchez (Mathematics) - Ph.D.

Theodore Guinn: Board of Directors, UNM Faculty Club.
Liang-Shin Hahn: Committee on selection of Graduate and Teaching Assistants (Fall semester); Master's Exam Committee (Spring semester); High School Math Contest (Fall semester).

Catarina Kiefe: Women Studies Committee

L.H. Koopmans: Computer Use Committee (consulting service subcommittee)
Dean's committee on Undergraduate Academic Programs
Department Graduate Committee
Participated in the design of new statistics graduate program in Department of Mathematics.
One Ph.D. student to finish next summer.
Committee to select Assoc. Vice President of Computing.

W.T. Kyner: Chairman Ph.D. committee for T.J. Burns (degree granted Aug. 1977)
Richard Metzler: Admissions and registration committee, Director of graduate studies in the Math Dept. (Jan.-July). Dept. undergraduate committee. Director: Math honors program.

Merle Mitchell: Faculty advisor KME

Pranmod Pathak: Faculty advisor to Mr. Ray Williams and Mr. Chap.

Steven Pruess: Departmental committees: Graduate, GA-TA Selection (Chairman), Masters Exam, Member of twelve dissertation committees in math and engineering.


Alexander Stone: Masters Exam Committee

William Zimmer: Advisor to L.T. Chap during Professor Pathak's sabbatical.

Committee for Graduate Student in Education - advising on statistical part of thesis.

Consulted with Urban Observatory and member of Biology Dept.

9. PUBLIC SERVICE (church activities, etc.)

Richard Allen: Active in church.

Michael Bevacqua: I fly volunteer search and rescue missions for ACRA when needed.

Richard Bourgin: Mountain search and rescue.

Laura Cameron: Helped organize and circulate petitions for a protest regarding rezoning in my neighborhood and appeared before the environmental land planning commission.

Richard Griego: Member, Advisory Board for North Valley Community Center.

L. H. Koopmans: Tour leader, New Mexico Wheelman Bicycling Club.

David Sanchez: Member, Selection Committee, NCCHE Postdoctoral Fellowships

10. PERSONAL INFORMATION

Michael Bevacqua: Married 13 May 77.


Stanley Steinberg: Samantha Fay Steinberg, born August 19, 1977.

William Zimmer: divorced.
The Report of the Department of Modern and Classical Languages
July 1, 1977-June 30, 1978
Sabine R. Ulibarri, Chairman

I. General departmental information.

A. Significant achievements.

1. Departmental organization: a) Professor George F. Peters, the Assistant Chairman of the Department, was on sabbatical leave during Semester II. During his absence Professor John J. Bergen served as Acting Assistant Chairman. b) A new interdepartmental committee has been formed to oversee the Classics program. Its members, during its initial meetings in the spring, were Professors Tuttle (Philosophy), Berthold (History), Buchanan (English), White (Modern and Classical Languages), Murphy (Modern and Classical Languages), and Smith (Modern and Classical Languages). The initial deliberations of this group involved the replacement for Professor Mellon. It is expected that it will meet from time to time in the future on other matters pertaining to Classics and its integration into other A and S. programs.

2. Recommendations of the Committee on Promotion and Tenure.
   a. Jon Tolman was granted tenure, effective Semester I, 1979.
   b. Tamara Holzapfel was promoted to the rank of full professor, effective Semester I, 1978.

3. New Programs.
   a. The faculty approved a new B.A. program in Spanish. The undergraduate student who is majoring in Spanish can now choose between two options:
Plan A. Hispanic Literature.

Required courses are 301, 302, 351, 352 or 357, plus at least nine additional hours of literature courses.

Plan B. Hispanic Language and Culture of the Southwest.

Required courses are 297, 301, 302, 351, 357, and 345 or 346, plus 12 additional hours in any combination in literature, linguistics, culture, and folklore.

Under both plans the student completes 30 hours of course work above 290 and completes work in another foreign language at the level of 202, 276 or a reading knowledge.

b. This was the first year that our new graduate degree program was in effect. The new plan is proceeding effectively.

c. This year is likewise the initiation of our Special Spanish course, which is patterned after Flash French. The course (which was developed and directed by Professor León J. Márquez) offers the student five semesters of Spanish in one semester. An attractive feature of this course each semester is a two-week visit by the class (including one professor and two teaching assistants) to Guadalajara, Mexico, with excursions to other places of interest in Mexico.

d. The summer schools in Taos have now expanded to include French and Spanish as well as German.

(1) The French section will offer its session from June 12 through July 8, 1978. This program, which is co-directed
by Professor Claude Senninger of the Department of Modern
and Classical Languages and Professor Steven Kramer of the
Department of History, is sponsored by the UNM Office of De-
velopment, the Citizens of New Mexico for French, and the
Alliance Française. The Division of Continuing Education
at UNM offers academic credit for courses taken at the session.

(2) The Spanish section is also planning on conducting a session
in Taos beginning in the summer of 1979. The offering of
this program is contingent upon the reception of a Title
VII grant for which negotiations are still in progress. A
pilot program will be held in Albuquerque during the summer
of 1978. The director of the program is Professor Sam
Guyler. The program will provide training in bilingual-
bicultural education to public school teachers in New Mexico.

e. Beginning this year the Department assumed its role as the
agency for certifying the language proficiency of candidates
for a bilingual-bicultural endorsement on their New Mexico
teaching credential. Candidates may demonstrate their profi-
ciency by successfully completing Spanish 302 at UNM (or its
equivalent at another university) or by passing a proficiency
examination. Our Department administers this proficiency test
three times per year--in the Fall semester, the Spring, and
the Summer session. The first such test (which was coor-
dinated by Professors Sabine R. Ulíbarri, León J. Márquez
and John J. Bergen) was given on February 25, 1978; twenty-
five students took the examination; eighteen passed.
4. Cultural and Social Activities.

a. General

A departmental faculty, staff, and graduate student dinner, hosted by the graduate students, was held on April 29, 1978 at the UNM Faculty Club.

b. Spanish.

(1) The annual initiation ceremony of Mu Alpha chapter of Sigma Delta Pi (the National Hispanic Honorary Society) was held on April 27, 1978 in the Lounge of Ortega Hall. Ten new members were initiated into the society. Following the ceremony refreshments were served. Lou Gutiérrez-Zamora and Professor John J. Bergen coordinated the activities.

(2) Several members of the Spanish faculty read papers at national and regional conventions. See Section II of this report.

(3) An International Symposium on Spanish and Spanish American Literatures was held on October 27, 28, and 29, 1977. Participants were Dinko Cvitanovic (director), Sabine R. Ulibarri, Jorge de Sena, José Hierro, Angel González, José Emilio Pacheco, Héctor Ciocchini, Juan Benet, Juan García Hortelano, Juan Rulfo, Manuel Zapata Olivella, Ricardo Gullón, Luis Harss, Julio Ortega, Jean-Marie Le Clézio, J.R. Harra-Lónez, Tamara Holzapfel, Pelayo Fernández, Galo René Pérez, Jack Tomlins, and Alfred Rodríguez. The Symposium was held in the New Mexico
Union Theater. On Saturday, October 29, it concluded with an excursion to Santa Fe, New Mexico, including a visit to the International Museum of Folkloric Art and dinner in the La Plazuela dining room of the La Fonda Hotel.

Throughout the year there was a lecture series dealing with Hispanic culture in New Mexico. This series, entitled *Nuestra Cultura Hispánica—¿Vive o Muere?*, was sponsored by a grant from the New Mexico Humanities Council and directed by Professor Dick Gerdes. The following were the participants in the eight lectures of the series.

Sergio Elizondo, "Observaciones sobre la cultura hispánica en Nuevo México" (panelists: José José Armas, Ángel Collado, and Jon Tolman).

Pedro Avila, "La canción y la poesía social" (panelist: Néstor García).

José Reyna, "La cultura mestiza en Nuevo México" (panelists: Richard Griego, Hugo Peña, and Rupert Trujillo).


Stanley Gutierrez and Albino Baca, "La música evangélica en Nuevo México" (panelists: George Salazar, Mary F. Reza, and Pauline Gonzales).

María Gutierrez de Spencer, "La educación bilingüe.
en Nuevo México" (panelists: Miguel Encinias and Rosa Fernández).

Dinko Cvitanovic, "Nuevo México: una etapa de mi aprendizaje" (panelists: Alfred Rodríguez and Juan Barona).

Orlando Romero, "La relación entre la destrucción de la cultura hispánica y el equilibrio ecológico en Nuevo México" (panelists: Lorenzo Chávez and Paul F. Larrazolo).

On December 2, 1977 a colloquium in honor of Nobel Prize winner Vicente Aleixandre was held in the Reading Room of Ortega Hall. The following took part in the colloquium: June Carter, Dick Gerdes, Angel González, Tamara Holzapfel, Alfred Rodríguez, Guido Rodríguez, and Tomás Ruiz-Fábrega.

c. French

(1) Jean-Marie Le Clézio, the noted French novelist, served as a Visiting Professor of French during the academic year.

(2) Also throughout the year the French for Children and French for Adults classes were held each Saturday. This year there was a record enrollment of 120 students, which represents an increase of 20% over last year's enrollment.

(3) The Alliance Française sponsored its annual Christmas dinner, the proceeds going to the French scholarship fund. During the year two UWM undergraduate students in French studied under such scholarships in France. Similarly,
two undergraduates have been awarded scholarships to study in France next year.


(5) The annual French weekend for high school and university students was held in Glorieta, New Mexico, from March 31 through April 2, 1978.

(6) The French playwright Nathalie Sarraute visited UNM from April 4 through April 21, 1978. During that time she directed her play Le Mensonge which was presented in the Experimental Theater on April 14, 15, and 16, 1978. While at UNM she also visited four French classes, three Spanish classes, one Comparative Literature class, and one Portuguese class.

(7) A symposium entitled Literature in New Mexico: New Mexico in Literature was held on April 17 and 18, 1978. Participants in the symposium included Sabine R. Ulibarrí, Joseph Zavadil, Frederick Warner, Rudolf Anaya, Gene Frumkin, Jean-Marie LeClézio, Antonio Márquez, Thomas Meyer, Nathalie Sarraute, Claude-Marie Senninger (director of the symposium) and Dudley Wynn.

(8) This Spring and Summer the City of Albuquerque is sponsoring a sixteen-week program to revitalize downtown Albuquerque. The French section of the Department participated in that program on Saturday, May 6, 1978. The activities included
an exposition of French photography, the showing of a French movie, bicycle racing, music, other entertainment, and the sale of French food.

d. German

(1) From June 10 through July 15, 1977 the German section successfully ran (for the second year) its "Deutsche Sommerschule von New Mexico in Taos." Under the directorship of Professors Peter Pabisch and George Peters and co-sponsored by the Goethe House in New York and the Consulate of the Federal Republic of Germany in Houston, the summer school offers students of German from around the country four weeks of intensive language training and academic courses in German Studies. Credit is awarded through UNM's Division of Continuing Education. A third session of the school is planned for June 12 through July 8, 1978.

(2) The sixth annual German weekend for high school and university students was held in Glorieta, New Mexico, from March 31 through April 2, 1978.

e. Portuguese

A six-week summer session will be held during June and July, 1978, in Lisbon, Portugal. Professor Jack Tomlins of our Department and Professor Gerald Slavin, the Director of International Programs and Services at UNM, are co-directors of the summer program.

f. Classics

During the Spring semester Professor Cynthia Thompson gave a lecture on "Making Sense of Myth."

g. Comparative Literature
(1) Professor Patricia Murphy of the French section began her post as the Chairperson of the Committee for Comparative Literature.

(2) During the Fall semester Professor Max Oppenheimer presented a lecture entitled "On Translating the Impossible."

B. Significant plans and recommendations for the near future.

1. The German section has presented a proposal for adding an M. A. degree in German, to be offered through the German summer school in Taos, New Mexico. The faculty of the Department will discuss this proposal during the Fall semester of 1978.

2. The Portuguese section has indicated the need to add a linguistics dimension to the Luso-Brazilian program. This addition would include offerings in phonology, dialectology, and syntax to go along with the present offerings in philology and medieval literature.

3. The Department is interested in
   a. the establishment of training programs for bilingual-bicultural teachers in language, linguistics, literature, and culture. Course offerings tailored to these needs are presently in the planning and experimental stages;
   b. the development of a Southwestern Study Center which will focus on southwestern Spanish, native American languages, southwestern Spanish folklore, and southwestern Spanish culture;
   c. the development of complete immersion courses in German, Portuguese, and Russian, modeled after our present offerings of Special Spanish and Flash French;
   d. the development of specialty language courses (especially in Spanish) for lawyers, doctors, educators, secretaries and, in
conjunction with other departments, language courses for business majors, engineers, etc.; and
e. the establishment of a Spanish literary journal.

C. Appointments to staff

1. The following appointments were effective Semester I, 1977-78:
   a. José Reyna, an associate professor of Spanish, was hired to fill the position vacated by the retirement of Professor Rubén Cobos.
   b. June Carter was hired as an instructor in Spanish.
   c. Natasha Kolchevska, an instructor in Russian, was hired to fill the position vacated by the resignation of Richard Robin.
   d. Jean-Marie LeClézio had a one-year appointment as a visiting professor of French, a position created by the resignation of Professor Jack Kolbert.

2. The following appointments will be effective Semester I, 1978-79:
   a. Diana Hazlett, who is completing her Ph. D. degree at the University of Iowa, has been hired as a visiting instructor in Classics to replace Peter Mellon.
   b. The search for an assistant professor of Navajo is still in progress.

D. Separations from staff.

1. Professor Jack Kolbert of the French Section resigned during the summer of 1977. His resignation was effective on July 31, 1977.
2. Assistant Professor Peter Mellon is leaving the Department at the end of the Spring semester 1978 after having completed six years of service in the Classics program.

II. Composite of information requested on individual biographical supplements.
1. Advanced study
   a. Warren S. Smith, Jr., NEH fellowship to study Greek and Roman New Comedy, summer, 1977, University of California, Berkeley, under Professor William S. Anderson.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.
   a. Pelayo H. Fernández. One semester sabbatical leave (Spring).
      Travel: Spain, France.
   c. Sam Guyler. Sabbatical (Fall '77). Spent the period from August '77 thru October '77 developing and writing up two grant proposals to establish a summer language institute for Spanish bilingual teachers. Submitted November 1 to NEH and Title VII. Each proposal is over 200 pages long. Lived in Mexico November through December 1977.
   d. Robert Holzapfel. Summer travel to Germany; visit to Hesse Exhibit at the Marbach Center.
   f. Enrique E. Lamadrid. On sabbatical for Spring Semester 1977; leave without pay for Fall 1977. Travel in South America (Panamá, Colombia, Perú, and Ecuador) and Mexico during sabbatical; travel throughout United States during period of absence.
   g. Byron Trent Lindsey. U.S.F.R, summer: see item 3.
   h. Patricia Murphy. Spent six weeks in France during the summer.
j. Peter Karl Pabisch. Co-director of Die Deutsche Sommerschule von New Mexico in Taos Ski Valley: 2nd session: June 10 - July 13, 1977. April 77: AATG Conference--Texas, University of Texas at Austin; October 77: Conference of WAGS (Western Ass. of German Sts.), University of Arizona at Tempe; December 77: MLA at Chicago.

k. George F. Peters. 4 week trip to Germany in May to gather material for textbook.

l. Claude-Marie Senninger. Summer trip to France and Italy.

m. Jon M. Tolman. Summer research in Brazil (June-August), with funds provided by UNH Research Allocations Committee.


3. New scholastic honors, fellowships, etc.

a. Byron Trent Lindsey. IREX Fellowship (State Department Russian Language Teachers Exchange), Moscow State University, June 19-August 21, advanced linguistic and literary seminars.

4. Publications.


5. Other research projects or creative work in progress or completed during period


h. Robert Holzapfel. Hesse project in progress.

i. Robert C. Jespersen. First-year German text under contract with Harner and Row will be completed this year. Article on Stefan
Heym: submitted for publication.


l. Byron T. Lindsey. Manuscript being read: "Is Tolstoy's Hadji Murat Tolstoyan?" Translation in preparation: two stories by Shishkov with an introduction; research on Bulat Okudzhava, contemporary Russian poet, and continuing research on contemporary Soviet art and on Dostoevsky. Article in preparation for N.M. Humanities Council on contemporary Russian cultural and intellectual life.


n. Patricia Murphy. Paper on "The Depiction of the Madman in 18th Century French Comedy" to be delivered at South Central Society for 18th Century Studies, Spring 1978. Book review sent to World Literature Today.


2. Alfred Rodríguez. Accented for Culture publication in 1977:


w. Jack E. Tomlins. Will have the following entries in forthcoming winter issue of *The literary Review* (Fairleigh Dickinson University), devoted to Brazilian poetry: Manuel Bandeira, Cecília Meireles, Joao Cabral de Melo Neto, Carlos Drummond de Andrade. Another article has been submitted to *Journal of the American Portuguese Society* (New York): with Alfred Rodríguez, *A Likely Contemporary Source for the "Damned be the first builder of ships" Topos.*


6. Activities in learned and professional societies

a. John J. Bergen. New Mexico State Director, Sigma Delta Pi, National Hispanic Society. Organized the installation of the Mu Alpha Chapter of Sigma Delta Pi at UNM on May 5, 1977; twenty members were inducted into the chapter at that time.


c. Dinko Cvitanovic. President of an international symposium: Simposio Internacional de Literaturas Hispánicas, University of New Mexico, October 1977.


g. Enrique E. Lamadrid. Northeast Conference of Foreign Language Teachers in New York Symposium (Literature) at UNM.

h. Byron T. Lindsey. Attended annual conference of International Research and Exchanges Board and of American Association for Advancement of Slavic Studies, Washington, D.C., October 13-16; President, N.M.-El Paso Chapter, American Association of Teachers of Slavic and E. European Languages.


o. William H. Roberts. Attendance on special invitation at the International Symposium on Fernando Pessoa held under the sponsorship of Brown University and the Gulbenkian Foundation at Brown, Providence, R. I., Oct. 7-9.


s. Jon M. Tolman. Modern Language Association Convention (Chairman of Luso-Brazilian Executive Committee, Section Chief of Luso-Brazilian Section of MLA Bibliography: chairing four meetings);


7. Other professional activities.


b. Garland D. Bills. Associate Editor, Journal of the Linguistic Association of the Southwest. Evaluator of two proposals submitted to the National Science Foundation. Referee for two articles submitted to the Journal Language. Outside evaluator in five tenure/promotion decisions (UCLA, UC-Santa Barbara, University of Louisville, University of Texas-Austin).

c. Truett Book. Director of French Weekend at Glorieta. Fund raising for Alliance Française scholarship (International Festival, Museum Festival, lottery, etc.) French Conversation class for Senior Citizens. French Conversation class for nuclear physicists at Sandia Base.

d. Dinko Cvitanovic. Radio and TV appearances (local) concerning the International Symposium on Hispanic Literatures. Consultant of several Committees of Studies at the Department of Modern and Classical Languages.

e. Dick C. Gerdes. Member, Homenaje a Vicente Aleixandre, University of New Mexico, Dec., 1977.
f. Robert C. Jespersen. Talk: Highland High School German classes. Attended German Weekend for High School College Students (April–Glorieta, N.M.)


q. Sabine R. Ulibarri. Lectures: Salem, Oregon; Garden City, Kansas; Nashville; Irvine (U.C.); Tucson; Albuquerque; Estancia, Olympia; Berkeley.

8. Non-teaching University service.


b. Garland D. Bills. Chairman, Department of Linguistics. Supervisor of Native American Languages program, Department of Modern and Classical Languages.


d. Dinko Cvitanovic. Currently supervising five doctoral dissertations (as chairman). Chairmanship of several Committees on Studies at the Department of Modern and Classical Languages.
e. Pelayo H. Fernández. Faculty advisor, Policy Committee Member, Moderator round table International Symposium.

f. Dick C. Gerdes. Project Director, Lecture Series on Hispanic Culture in New Mexico, funded by New Mexico Humanities Council, 1977-78; submitted a $120,000 proposal to fund a summer institute in Taos for bilingual teachers, summer 1978.

g. Ángel González. Executive officer for Simposio internacional de literaturas hispánicas held at UNM, Oct. 27-29, 1977.

h. Sam Guyler. Phi Beta Kappa Selection Committee.

i. Bruno Hannemann. Faculty advisor-German Club of UNM. Member of Policy Committee, Modern and Classical Languages. Comparative Literature Committee, Arts and Sciences; Library Committee.

j. Robert Holzanfel. Campus Planning Committee; Chairman of Subcommittee on Landscaping Building Committee.

k. Tamara Holzanfel. Senator at large.


m. Enrique E. Lamadrid. On leave for entire period.

n. Byron T. Lindsey. Director, Russian Language program; Comparative Literature Committee, Russian Studies Committee; guest lecturer (two lectures), Fine Arts College, Theatre Arts Department.

o. Raymond R. MacCurdy. Chairman, Arts and Sciences Tenure Committee; member, Committee on Honorary Degrees.

p. Patricia Murphy. Chairperson, Comparative Literature Program; Continuing Education Committee, Faculty Club Board, Arts and Sciences Promotion Committee, Modern and Classical Languages Department, Policy Committee.
q. Marshall R. Nason. Director, Latin American Center; Director, Ibero-American doctoral Program; Chairman, Title VI NDEA Fellowship Committee; Member, Latin American Task Force; Chairman, Search Committee for Latin Americanist; member, Policy Committee, Department of Modern and Classical Languages; Chairman, Senate Committee on Student Affairs and Extra-Curricular Activities; member, Faculty Senate; member, Faculty Senate Executive Committee.

r. Peter K. Pabisch. Faculty member of the Comparative Literature program. Chairman of the Visiting Lecturer's Committee for the Humanities and Social Sciences. Ad hoc Chairman of the Committee on Interdisciplinary Studies.

s. George F. Peters. Assistant Chairman, Modern and Classical Languages, Policy Committee. Associate Chairman, Advisor, German, Honors Council.


u. William H. Roberts. Advisor to Graduate students in Portuguese, Fall, 1977.


w. Claude-Marie Senninger. Member at large for Arts and Sciences of the Senate; member of Modern and Classical Languages Policy Committee; chairman of the Committee for 1977-78.

y. Jon M. Tolman. Boy Scouts, Troop 207 (Troop Committee Member); Sunday School President, LDS 7th Ward, Albuquerque East Stake.


aa. Sabine R. Ulibarri. Department Chairman, Graduate Advisor.

bb. Julian E. White, Jr. French Graduate Advisor; several Committees on Studies, both chairman and member; Associate Dean, College of Arts and Sciences 050 PTE; Arts and Sciences Graduate Committee.


b. Pelayo H. Fernández. Albuquerque-Gijón Sister Cities: While in Gijón arranged with City Hall the welcoming reception of the first visiting group from Albuquerque (hotel, festivals, travelling).


e. Byron T. Lindsey. Amnesty International (Albuquerque group), treasurer.


g. Peter K. Pabisch. Member of the scholarship committee of Edelweiss am Rio Grande, German-American Club. Special editor for "Österreichische Diplomatische Korrespondenz", Vienna.
h. George F. Peters. KHFM Volunteer announcer. Music Reviewer, New Mexico Independent.
j. Alfred Rodríguez. Treasurer, Alpha Chapter, Phi Beta Kappa (UNM).
k. Claude-Marie Senninger. Sponsor of the French for Children program at UNM.
l. Jack E. Tomlins. PTA Sombra del Monte School.
m. Sabine R. Ulibarrí. New Mexican Humanities Council.
n. Julian E. White, Jr. One of organizers and charter member of St. Peter's Anglican church.
I. **General Departmental Information**

A. Significant Achievements.

The following academic changes have been enacted this academic year: Our Introduction to Philosophy course is now taught in two large lecture sections per week, and one meeting per week is devoted to a discussion group managed by our TA's. This plan has replaced the old system of turning over introductory courses to our TA's entirely. We have had a small drop in enrollment in our introductory courses (Phil.110) under this system, but we anticipate a better response next year when our new system takes root. Our general enrollment continues about equal with last year's.

We have also changed the course requirements for the philosophy major. 30 hours is now required for graduation, of which 18 will be distributed as follows: 1) Ancient European philosophy, 2) Early Modern European philosophy, 3) symbolic logic, 4) ethics. There is now a choice allowed between metaphysics and epistemology. Also a student must take one seminar on either a great philosopher or a philosophical movement. 12 hours will be elective on the 300 or above level.

The requirement for the Ph.D. has been changed slightly. Three seminars in ethics, metaphysics and epistemology will be required for the Ph.D. The seminar
requirement in logic was dropped. Instead, a candidate must pass philosophy 356 (advanced symbolic logic) with a B or better.

We have tightened up our teaching schedule for the faculty in philosophy. We have determined that certain of our offerings will be taught on a strict basis by semester, yearly, and once every two years. The chair will see that this schedule is followed. This allows us more order and provides more responsibility to students.

Professor Ted Sturm will be acting chairman for 1978-79, to replace Prof. Tuttle who will be on an exchange teaching arrangement in Duisburg, West Germany.

Prof. Helmut Girndt will come to our department for one year in exchange with Prof. Tuttle who will go to the University of Duisburg, West Germany to teach.

Our distinguished visiting professor for 1978-79, will be Haig Katchadourian from the University of Wisconsin. He replaces Prof. Paul Schmidt of our department who will be on leave.

Our department has added two new courses entitled Philosophical Problems of Legal and Medical Ethics and Philosophical Problems of Business and Engineering Ethics.

There were no academic promotions in our department.

B. Significant Plans:

The Department of Philosophy has arranged for a one-half time person to serve in the department as a teacher of philosophy. The other half of his service is funded by the
John Muir Institute. Prof. Eugene Hargrove will be editor of the Muir Institute Journal, The Journal of Environmental Ethics. This journal will be based at U.N.M. This is a significant edition to our academic horizon. Prof. Hargrove's appointment is half-time adjunct assistant professor. This appointment is not fully instrumented because we are awaiting finalization from the John Muir Institute.

C. Appointments to the Staff.

In addition to the above we have hired Prof. Andrew Burgess as an Assistant Professor to teach in our religious studies department minor program. He is a scholar with excellent background and publications. He is a graduate of Union Theological Seminary and Yale Graduate School.

In the academic year 1977-78, Joyce Trebilcot of Washington University at St. Louis received a $25,000 grant from U.N.M. funds to come to our department as a "distinguished professor." She taught courses in "feminist philosophy" also in conjunction with the Women's Studies group. Her class enrollment was small, and she taught 6 hours per semester. In my opinion such a venture was a tragic waste of money for U.N.M. Such a subject as feminism is not a philosophic or academic discipline. It's major administrative and social function is the creation of jobs for ideologists. I am only sorry that she was hired by a minority of faculty members while I was away in the summer, and I heard nothing of the matter until after it was done. I would like it on public
record that I personally protest this University's use of public funds for such an appointment. I can do no other.

D. Separations from the Staff

Professor Carl Stern, who did not receive tenure, will leave this department at the end of the summer.

II. Composite Information from Biographical Supplements.

1. Advanced study.
   a. Charlene McDermott - summer session intensive Spanish course.

2. Sabbatical leaves.
   a. Prof. Russell Goodman - academic year 1977-78.
   b. Prof. Fred Schueler - academic year 1977-78.

3. New Scholastic honors, fellowships, etc.
   None

4. Publications.

   Abstract of "The Discourse of Penthouse, Language and Behavior Abstracts, Jul. 77, vol. 11, Nr. 2, p. 499
   "Metonymy and Metaphor in Haiku", Proceedings of the First SSA Conference.


   Review of Carl Boggs, Gramsci's Marxism, and Alex Callinicos, Althusser's


5. Other Research Projects or Creative Works.

Casalis: Evangelina, Manuscript submitted for publication.
"A Contribution to the critique of Religious Alienation", submitted for publication.
"La foudre", submitted for publication.
"Semiology and Semiotics of Haiku", forthcoming, SEMIOTICA.
"Hermeneutics, Death of God...", Forthcoming, Selected Studies in Phenomenology... (The Hague: Nijhoff).


McDermott: Historical research in the metaphysical foundation of a philosophy of medicine. A comparative study of logic as organon for the defense of the faith, utilizing Latin and Sanskrit sources.
An analysis of Boetius of Denmark's philosophical grammar in the light of Wittgenstein's philosophy of language.

O'Neil: Article: "Substance and Substratum" out for consideration.

Schmidt: Continuing book entitled The Aesthetics of Existing, one-half finished.
Schueler: Papers in final form: "Harman on Moral Relativism," "Evaluations and Directives," "'X's reason for Being was p'", "Exclusionary Reasons," Papers in rough draft form: (1) a paper giving a 'practical reasons' analysis of the moral concepts of right & wrong. (2) a paper arguing that moral knowledge is best thought of as a form of a posteriori knowledge. (3) A paper explaining and attempting to resolve The Tension between the idea that moral evaluations are 'action guiding' and the idea that they are capable of being true or false.


6. Activities in Learned and Professional Societies.


Lee: Treasurer, UNM, Chapter of AAUP.

Schueler: Participated in a 5 week "Institute on Law and Ethics" held at Williams College, Williamstown, Mass. Sponsored by the Council for Philosophical Studies.

Stern: Attended New Mexico-West Texas Philosophical Society annual meeting. Re-elected Secretary/Treasurer of above organization.


7. Other professional activities.


Schueler: Panel member, "Abortion, The Issues," NMHC sponsored program held at Albuquerque Convention Center and at N. M. Tech. and televised over KOAT TV and later in Las Cruces (all in spring, 1977).

Stern: Talk on "Men's Liberation" to a Women's Suffrage Anniversary Workshop.

Sturm: Visiting lecturer for Human Development: St. Mary's College

8. Non-teaching University service.

Casali: Member of A & S Promotion Comm. (Humanities) Member of screening committee for the position in Religious Studies. Member of several graduate student's committees.

Eilstein: Member of GAC Committee, Philosophy Dept., Fall 1977.

Goodman: Faculty Senator, member, Academic Freedom and Tenure Committee.

Lee: Philosophy Dept. Undergraduate Advisor and Honors Advisor.

McDermott: Chairperson, Graduate Advisory Comm.; Tenure; University Senate; Member-Undergraduate Affairs Committee; Member-Committee to assess Comp. Lit. Acting Department Chairperson-Summer 77. Chairperson-Asian Studies Minor; Assoc. member-Linguistics Dept.; Acting Chairperson-Tenure Comm. Dec. 1977.

O’Neil: Departmental Graduate Advisor and Coordinator; member A & S graduate committee; chair, subcommittee on graduate review; member, Student Standards and Grievance Committee.

Schmidt: Elected member of the Honorary Degree Comm. Member of University Press Comm.

Sturm: Faculty Senate; Senate Comm. on Graduate Program & Standards; A & S Comm. on Interdisciplinary Majors; Departmental Graduate Advisory Comm. Univ. Comm. on Asian Studies; Faculty Advisory, Nichiren Shoshu.

Tuttle: Chairman: Department of Philosophy


McDermott: Volunteer work at Shelter for Battered Women. Lecture presented to Santa Fe chapter of AAUW-April 6, 77.

O’Neil: Supportive activities at own church.
Sturm: Indian Pueblo Culture Center (Bd. of Dirs. of the Friends of IPCC; Education Chairman; Docent); NMSO (volunteer work for Friends of NMSO); Member, Segunda Iglesia Congregacional; Ministerial assistance, Unitarian Church; Int'l Host Family Program.

Tuttle: Boy Scouts


None.
The Report of the Department
of Physics and Astronomy

July 1, 1977 - June 30, 1978

Victor H. Regener, Chairperson

I. General Departmental Information

A. Significant Achievements During the Academic Year 1977-78

1. Departmental Operation

The following table shows student credit hours (averages for Semester I and Semester II) for this department over the last four years, the number of graduate students in the department (including Los Alamos courses) and the number of degrees granted. Campus faculty of this department did not contribute to teaching at the Los Alamos Graduate Center during the report year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Student Credit Hours, Physics and Astronomy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Average, Semesters I, II)</td>
</tr>
<tr>
<td>1974-75</td>
<td>6,250</td>
</tr>
<tr>
<td>1975-76</td>
<td>6,423</td>
</tr>
<tr>
<td>1976-77</td>
<td>5,933</td>
</tr>
<tr>
<td>1977-78</td>
<td>5.734(1)</td>
</tr>
</tbody>
</table>

Change +2.8% -7.6% -3.4%
Number of Graduate Students Enrolled\(^{(1)}\)
(Semester I Figures)

<table>
<thead>
<tr>
<th>Year</th>
<th>1974-75</th>
<th>1975-76</th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>46</td>
<td>45</td>
<td>57</td>
<td>49</td>
</tr>
</tbody>
</table>

Number of Degrees Granted

<table>
<thead>
<tr>
<th>Degree</th>
<th>May 1975</th>
<th>May 1976</th>
<th>May 1977</th>
<th>May 1978</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS Physics</td>
<td>4</td>
<td>3</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>BS Astrophysics</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>M.S., Physics</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Ph.D., Physics</td>
<td>7</td>
<td>1</td>
<td>3</td>
<td>8</td>
</tr>
</tbody>
</table>

Appendix A gives names of Seniors and census information regarding their future plans, as well as similar information on recipients of M.S. and Ph.D. degrees.

Sponsored Research Grants and Contracts

<table>
<thead>
<tr>
<th>Type</th>
<th>1974-75</th>
<th>1975-76</th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Departmental Budget, UNM</td>
<td>$493,668</td>
<td>$541,000</td>
<td>$602,100</td>
<td>$651,600</td>
</tr>
<tr>
<td>(2) Money for grants and contracts received during the year from outside sources</td>
<td>240,500</td>
<td>330,880</td>
<td>290,877</td>
<td>442,290</td>
</tr>
<tr>
<td>(3) Overhead to University from grants and contracts</td>
<td>36,140</td>
<td>48,000</td>
<td>46,699</td>
<td></td>
</tr>
<tr>
<td>(4) Active grants and contracts at end of year</td>
<td>760,479</td>
<td>699,370</td>
<td>980,000</td>
<td>1,388,805</td>
</tr>
</tbody>
</table>

\(^{(1)}\) Includes enrollment at the Los Alamos Graduate Center
### Current Sponsored Research Support by Faculty and Sponsoring Agency

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Agency</th>
<th>Amount received in 1977/78</th>
<th>Ongoing research in 1977/78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beckel</td>
<td>NIH</td>
<td>10,420</td>
<td>31,905</td>
</tr>
<tr>
<td></td>
<td>AFOSR</td>
<td>44,070</td>
<td>84,800</td>
</tr>
<tr>
<td>Bryant</td>
<td>DOE</td>
<td>50,000</td>
<td>106,000</td>
</tr>
<tr>
<td></td>
<td>DOE</td>
<td>66,000</td>
<td>126,000</td>
</tr>
<tr>
<td>Dieterle</td>
<td>DOE</td>
<td>200,000</td>
<td>665,000</td>
</tr>
<tr>
<td>Leavitt</td>
<td>DOE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wolfe</td>
<td>DOE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>King</td>
<td>NSF</td>
<td></td>
<td>11,700</td>
</tr>
<tr>
<td>Linsley</td>
<td>NSF</td>
<td>65,000</td>
<td>263,700</td>
</tr>
<tr>
<td>Peterson</td>
<td>NSF</td>
<td></td>
<td>33,000</td>
</tr>
<tr>
<td>Regener</td>
<td>NSF</td>
<td></td>
<td>50,300</td>
</tr>
<tr>
<td>Swinson</td>
<td>NSF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zeilik</td>
<td>EXXON</td>
<td>6,200</td>
<td>6,200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$442,290</strong></td>
<td><strong>1,388,805</strong></td>
</tr>
</tbody>
</table>
Changes in course offerings during 1977-78 were as follows:

**Additions:**
- Physics 104, 105 (3,3) Physics and Society.
- Astronomy 111L (1) Astronomy Laboratory.

**Deletions:**
- Physics/Astronomy 547 (3) Selected Topics in High Energy Astrophysics.

**New cross-listings:**
- Physics/Nuclear Engineering 435 (3) Introduction to Plasma Physics.

**B. Significant Plans and Recommendations for the Near Future**

We need to have the three "special" laboratory assistantships (given to us last year) converted into regular graduate assistants for a total of 18, and we need another substantial increase in regular assistantships to further improve the quality of our undergraduate teaching effort.

The continued lack of an adequate and regularly budgeted amount for equipment purchases continues to be a serious impediment to the progress of the departments instructional activities.

**C. Appointments to Faculty**

The faculty was joined on July 1, 1977 by Dr. McAllister Hull, Professor of Physics, Provost of the University.

Dr. Claude Amsler was appointed Research Assistant Professor.

Dr. Colston Chandler and Dr. James D. Finley III were promoted to the rank of Professor for 1978-79.
Dr. John Howarth, Professor of Physics and Director of General Honors, resigned at the end of the year 1977-78.

John W. McLean, Instrument Maker, retired at the end of the year 1977-78.
Appendix A

(1) Information on Graduating Seniors

The following list gives names and permanent addresses of Seniors enrolled in Semester II of 1977/78, as well as their plans upon graduation.

Key: (1) Expected graduation;
     (2) Plans to continue education at institution and in field shown;
     (3) Plans to look for work upon graduation or has job offers as shown.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott F. Anderson</td>
<td>2333 Brickel Ave. Miami, Fla. 331131</td>
<td>Dec. 1978</td>
<td>Yes, in Astr.</td>
<td>no</td>
</tr>
<tr>
<td>Arian L. Pregenzer</td>
<td>P.O. Box 1185 Corrales, N.M. 87048</td>
<td>May 1978</td>
<td>Yes, in Physics U.C. San Diego</td>
<td>Yes, in summers</td>
</tr>
<tr>
<td>Richard D. Bolton</td>
<td>331 Mimbres Dr. Los Alamos, N.M. 87544</td>
<td>May 1979</td>
<td>Yes</td>
<td>Yes, in summer 1979: Summer 1978: Tech. Aide at LASL</td>
</tr>
<tr>
<td>John K. Cannizzo</td>
<td>1420 S. Whittier Deming, N.M. 88030</td>
<td>May 1979</td>
<td>Yes, in Astr.</td>
<td>Research at observatory</td>
</tr>
<tr>
<td>Michael Wester</td>
<td>1801 Quincy, SE 87108</td>
<td>May 1978</td>
<td>Yes, in Math.</td>
<td>Not yet</td>
</tr>
<tr>
<td>Name</td>
<td>Address</td>
<td>Month</td>
<td>(2)</td>
<td>(3)</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------</td>
<td>---------</td>
<td>-----------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Donald Doerner</td>
<td>98 Star Route, Sandia Park, N.M. 87047</td>
<td>May 1978</td>
<td>Yes, in Math</td>
<td>Yes, Argonne Natl Labs, Illinois Summer</td>
</tr>
<tr>
<td>Jim Bailey</td>
<td>3813 A Thaxton, SE Albuq, N.M.</td>
<td>May 1978</td>
<td>Yes, UCI, in Physics</td>
<td></td>
</tr>
<tr>
<td>Carolyn McMillen</td>
<td>1816 Gold SE, Albuq, N.M. 87106</td>
<td>May 1978</td>
<td>Yes, in high energy physics</td>
<td>Yes, SLAC</td>
</tr>
<tr>
<td>Joe A. Martin</td>
<td>1040 Westerfeld NE Albuq, N.M. 87112</td>
<td>May 1979</td>
<td>Yes, in Physics</td>
<td>Not yet</td>
</tr>
<tr>
<td>Jeffrey S. Knowlton</td>
<td>3805 Camino Sacramento NE Albuq, N.M. 87111</td>
<td>Aug 1978</td>
<td>Yes, Physics/ Math. UNM</td>
<td>No</td>
</tr>
<tr>
<td>William M. Folkner</td>
<td>916 Jefferson NE Albuq, N.M. 87110</td>
<td>May 1978</td>
<td>Yes, Physics</td>
<td>No Univ of Washington</td>
</tr>
<tr>
<td>Kevin Cottage</td>
<td>8104 Palo Duro NE Albuq, N.M.</td>
<td>May 1979</td>
<td>Unsure</td>
<td>Yes</td>
</tr>
<tr>
<td>Tony J. Buchen</td>
<td>1025 Nugget, Los Alamos, N.M. 87544</td>
<td>May 1978</td>
<td>Yes, in Physics Yes, in summers UNM</td>
<td></td>
</tr>
<tr>
<td>Michael DiSanti</td>
<td>P. O. 214, San Cristobal, N.M. 87564</td>
<td>May 1978</td>
<td>Yes, in Physics No UNM</td>
<td></td>
</tr>
<tr>
<td>Diane Slack</td>
<td>2812 Cuervo NE Albuq., N. M. 87110</td>
<td>May 1978</td>
<td>No</td>
<td>Yes, UNM</td>
</tr>
<tr>
<td>Riki Darling</td>
<td>U. of Colorado Boulder, Colorado</td>
<td>May 1978</td>
<td>Yes, in Physics Yes, summers</td>
<td></td>
</tr>
</tbody>
</table>
Information on Recipients of M.S. and Ph.D. degrees

M.S. degrees, May 1978

Paul R. Findley
1221 Evergreen Lane
Port Hueneme, CA 93041

Working on Ph.D. at U.C., Santa Barbara

Linda S. Bayliss
1215 Chiquitos Rd.
Bosque Farms, N. M. 87068

Working on Ph.D. at UNM

Marilyn Glaubensklee
802 W 29th St
Pueblo, Colorado 81008

Optical Physicist, AF Weapons Lab, Kirtland

Carl A. Huguley
4517 Shiloh Pl. NE
Albuquerque, N.M. 87111

Physicist, Dikewood Corp., Albuquerque, N.M.

Declan A. Reib
2919 Carolina NE
Albuquerque, N.M. 87111

Erik J. Schwendeman

Ph.D. Degrees, May 1978

Ted Rupp
609 Calle Valdez
Santa Fe, N. M.

Physicist, Edgerton, Germerhausen, & Grier (EG&G), at Los Alamos

Roger Carlini
1500 Clancy Dr., NE
Albuquerque, N.M. 87112

Department of Physics, University of Washington, Seattle, Washington

Michael J. Costello
532 Concha
Altadena, California 91001

Jet Propulsion Labs
4800 Oak Grove Drive
Pasadena, California 91103

Richard Kant
1503 Gold Ave. SE
Albuquerque, N.M. 87106

Naval Research Labs, Washington, D.C. 20375

Hassan Sharifian
101 Asrar St.
Mashad, Iran

Physics Dept., Faculty of Sciences, U. of Ferdosi, Mashad, Iran

Hossein Tootoonchi
2 Niloofar-Chaem Street
Mashad, Iran

Physics Dept., Faculty of Sciences, U. of Ferdosi, Mashad, Iran

Alan Dudley
6001 Kingston NE
Albuquerque, N.M. 87109

P.T. Lecturer, UNM; Consultant to various research firms

Willard Thomas
1629 Hogle NE
Albuquerque, N.M. 87112

Science Applications, Inc.,
2201 San Pedro NE, Albuquerque, N.M.
II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study

Michael Zeilik, II
American Studies 651 (Supervisor: Joel Jones). Workshop on College Science Teaching (NSF-AAMS); Workshop on Astronomy Teaching (AAS).

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

Harjit S. Ahluwalia
Participated and presented papers at:
1) XV International Conference on Cosmic Rays held at Plovdiv, Bulgaria, on August 13-26, 1977.

Seymour S. Alpert

Howard Bryant
3 weeks in California, 1 week in New Hampshire, 3 days in Tennessee.

Colston Chandler
Sabbatical Beginning June 1977.

Christopher Dean
Sabbatical Leave, Semester I, 1977/78.

Byron D. Dieterle
Sabbatical: Jan-July 1977 at TRIUMF cyclotron, University British Columbia, Canada. July-December 1977 at University of New Mexico, Brookhaven National Laboratory, New York. Visits to Stanford University, University of California at Irvine (UCI), UC Riverside, UC Berkeley, and Temple University at Philadelphia.

Joey B. Donahue
2) "II International Conference on the Nucleon Nucleon Interaction", University of British Columbia, Vancouver, B.C., Canada, June 1977.

J.D. Finley, III
Travel to Mexico City from May 25 to June 10, for work with Dr. Jerzy Plebanski, Centro de Investigaciones y Estudios Avanzados del IPN; Travel to Austin, Texas, to give colloquium, May 24, at University of Texas on "Spinorial Structures & Complex Manifolds."
John Linsley

Alan W. Peterson

Derek B. Swinson
Travel to Bulgaria to attend the 15th International Cosmic Ray Conference, August 1977.

David M. Wolfe
Made numerous trips to Brookhaven National Laboratory and to TRIUMF in Vancouver B.C. to further the progress on Experiment #701. Alternating Gradient Synchrotron, BNL, Upton, New York.

Michael Zeilik, II
Observing trips to Kitt Peak; attended NATO School on Infrared Astronomy, Erice, Sicily; TIPS Workshop, Duke University (Exxon Education Foundation).

3. New scholastic honors, fellowship, etc.

J.D. Finley, III
Elected to membership in ZE.

John Linsley
Elected member, American Astronomical Society.

Michael Zeilik, II

4. Publications

Harjit S. Ahluwalia
1) Solar Anisotropies of Cosmic Rays. A final report submitted to the National Science Foundation on completion of work performed under NSF Grant #ATM 74-16328, on January 23, 1977.

Charles L. Beckel
1) "An Energy Gradient MO Study of the Effects of Protonation on Phosphate Ion Conformation" a paper presented at the International Symposium on Quantum Biology and Quantum Pharmacology, Sanibel Island, Florida, 10 January 1976. (co-author, E.S. Hertel, Jr.)

Howard C. Bryant
Colston Chandler

Byron D. Dieterle
3) "Charged Pion Production from Neutron-Proton Collisions at 790 MeV," Contributed to 2nd Int. Conf. on the Nucleon-Nucleon Interaction", Vancouver, BC, Canada, June 1977.
All supported by DOE contract for $500,000, "N-N interactions", 4 years.

Joey B. Donahue

J.D. Finley, III
John L. Howarth
Radiosensitivity of T and B lymphocytes IV. Effect of whole body irradiation upon various lymphoid tissues and numbers of recirculating lymphocytes. J. Immunol. 118, 1191-1200

David S. King

C.P. Leavitt

John Linsley


6) "Structure of Large Air Showers at Depth 834 g cm^{-2}. Average Lateral Distribution as a Function of Size and Zenith Angle", Proc. 15th ICCR (Plovdiv 1977) paper EA 55, to be published.

7) "Structure of Large Air Showers at Depth 834 g cm^{-2}. Fluctuations", Proc. 15th ICCR (Plovdiv 1977) paper EA 56, to be published.

8) "Structure of Large Air Showers at Depth 834 g cm^{-2}. Applications", Proc. 15th ICCR (Plovdiv 1977) paper EA 104, to be published.


Alan W. Peterson


Derek B. Swinson


David M. Wolfe


Michael Zeilik, II

5. Other research projects or creative work in progress or completed during period.

Harjit S. Ahluwalia
2) Three unsponsored research projects in progress.

Seymour S. Alpert
Fourier Optics (Two graduate students)
Human Metabolic Processing

Charles L. Beckel
Same sponsor & title as (3); $46,470; Nov. 16, 1977 to Nov. 15, 1978.

Howard Bryant

Colston Chandler
C. Chandler and A.G. Gibson, Long-range Invariance Principle Revisited. C. Chandler, On a Recent Paper of Bencke and Tandy, and C. Chandler, Nonrelativistic Multichannel Quantum Scattering Theory in a Two Hilbert Space Formulation (to be published by Taubner) were completed in August 1977 with the partial support of the Hungarian Academy of Sciences, Central Research Institute, Budapest, Hungary. C. Chandler and A.G. Gibson, N-body Quantum Scattering Theory in Two Hilbert Spaces, II. Some Asymptotic Limits. C. Chandler, Spurious Solutions to N-Particles Scattering Equations. These last two papers were completed with partial support from the Fulbright Commission and the Minna-James-Heinemann Stiftung, in collaboration with the NATO Senior Scientists Programme. Fulbright Commission, travel grant

Byron D. Dieterle
1) Design of neutron-proton scattering experiment (Experiment 26) at TRIUMF
2) Design and Preparation of "Search for Bound States" (Exp. 701 at Brookhaven National Laboratory.
3) Analysis of "neutron-neutron scattering" (Exp. 279 at LAMPF)
4) Analysis of "isobar production inpp Collisions" (Exp. 124 at LAMPF)
5) Publication in preparation: "pion production from n-p collisions" (Exp. 129 at LAMPF)
6) Publication in preparation of forward angle n-p scattering (Exp. 193 at LAMPF)
7) Publication in preparation of backward angle n-p scattering (Exp. 125 at LAMPF)
8) Prepared "Proposal for NaI Detector to be Used by the Physics Community" for DOE consideration.

Joey B. Donahue
My research activities have been under the following two Department of Energy contracts:
1) "Nucleon Physics Studies at Intermediate Energies", #E(29-2)-3347 in the amount of $145,000. My activities under this contract were to analyze a neutron-proton elastic scattering experiment which our group performed last year at the Los Alamos Meson Physics Facility. This analysis is complete and we are now preparing a publication for Physical Review Letters. We are also in the process of analyzing the data from a proton-proton pion production experiment which also took place at LAMPF.

My additional activities have been to plan and mount an experiment at Brookhaven National Laboratory to look for bound states and resonances in the nucleon-antinucleon system. This experiment is scheduled to run in April, 1978 on the new Low Energy Separated Beam at the Alternation Gradient Synchrotron.

2) "Photodetachment Spectrum of H⁻", #ER-77S-04-3998 in the amount of $60,000. This research uses a crossed beam technique with a laser beam and the H⁻ beam at LAMPF to look for structure in the photodetachment spectrum of H⁻.

Two experiments have been completed to date and the results have been published in Physical Review Letters. More experiments using this technique are now in preparation.

J.D. Finley, III
Support for travel was received from the University of Texas at Austin, and from the Formento Educacional, Mexico City, for travel to those places. Support for travel to conference in Canada received from UNM.
John L. Howarth
Same as last year.

David S. King
NSF Grant to continue study of pulsating variable stars September 1976 – February 1978 ($11,700).

C.P. Leavitt

John Linsley
Completed research project entitled "Extensive Air Showers at Volcano Ranch Station", supported by the National Science Foundation under a series of Grants, starting 12/1/72, for the total amount $198,700. Received National Science Foundation Grant No. PHY77-19377 for new research project entitled "Muon Component of Cosmic Ray Showers", in the amount $65,000 for the first 12 months.

Alan W. Peterson
NSF Grant $33,000 10/76 to 10/77 "Infrared OH Airglow Studies"

Victor H. Regener
Several research projects, sponsored and unsponsored.

Derek B. Swinson

David M. Wolfe
Energy Research and Development Administration Grant EY-76-s-04-3347 for $145,000. Dates 1 Dec. 76-30 Nov. 77 renewed for $200,000 for 1 Dec. 77-30 Nov. 78.

Michael Zeilik, II
Revision of Astronomy: The Evolving Universe for 2nd edition; development of A.370 and A. 371 as PSI course under NSF grant 12533, $10,200 until August 1978; infrared observations supported by UNM Research Allocations Committee; development of programs for infrared data reduction.

6. Activities in learned and professional societies.

Harjit S. Ahluwalia
Chairperson for two sessions (MG-VII and MG-X) at the 15th International Conference on Cosmic Rays held at Plovdiv, Bulgaria, on August 13-26, 1977. See #2 above for meetings and #4 above for papers presented.
Charles L. Beckel
1) "An Energy Gradient MO study of the Effects of Protonation on Phosphate Ion Conformation" a paper presented at the International Symposium on Quantum Biology and Quantum Pharmacology, Sanibel Island, Florida, 10 January 1976. (co-author, E.S. Hertel, Jr.).

Howard Bryant

Colston Chandler

Byron D. Dieterle
Attended 2nd International Conference on the Nucleon-Nucleon Interactions.
Seminar at UC Riverside "Search for Bound NN states", July 1977.

Joey B. Donahue
2) "II International Conference on the Nucleon Nucleon Interaction", University of British Columbia, Vancouver, B.C., Canada, June 1977.

J.D. Finley, III
Attended and gave requested talk at the Eighth International Conference on General Relativity and Gravitation, Waterloo, Canada, August, 1977. Paper was entitled "Spinorial Structures and Null Geodesic Surfaces on Complex Manifolds".

John L. Howarth
David S. King
President (currently) of local chapter of Sigma Xi (The Scientific Research Society of North America).

Alan W. Peterson

Derek B. Swinson
Attended, Presented a paper at, and was a session Chairman at 15th International Cosmic Ray Conference, Plovdiv, Bulgaria, August 1977.

David M. Wolfe

Michael Zeilik, II

7. Other professional activities

Harjit S. Ahluwalia
1) Gave a slide-show talk on, "Machhu-Pichhu, the Lost City of Incas", at the Alameda Community Center on October 13, 1977.
2) Referee for (a) Journal of Geophysical Research (Space Physics) (b) Research Proposals submitted to the Solar-Terrestrial Physics Section of National Science Foundation.

Charles L. Beckel
1) Member, Navajo Science Committee - Education Subcommittee.
2) Consultant, Dikewood Corporation.
3) UNM, Dept. of Physics and Astronomy Colloquium; "Diatomic Molecules and Small Segments of Biological Molecules," March 4, 1977.

Howard Bryant
Referee for N.S.F. research proposal in atomic physics.
Refereed 3 papers for American Journal of Physics.
1 paper for Optical Society of America.
1 paper for Physical Review Letters.
Joey B. Donahue

J.D. Finley, III
Two Colloquia given to the UNM Mathematics Department, on black holes and on hyperheavenly metrics.

John L. Howarth
Consultant to Veterans' Administration Hospital, Albuquerque, and to a number of hospitals, radiologists and dermatologists in New Mexico, and Colorado.

David S. King
Taught Community College course during Spring semester of 1977. Consultant to Los Alamos Scientific Laboratory.

Alan W. Peterson

Derek B. Swinson

Michael Zeilik, II

8. Non-teaching University service

Harjit S. Ahluwalia
1) Member of: (a) UNM Science Colloquium Committee, and (b) UNM - Sandia Colloquium Committee.
2) In-Charge of Departmental Weekly Colloquia
3) Chairperson of two Study Committees.

Seymour S. Alpert
ASUNM Speakers' Committee.
Charles L. Beckel
1) Member, Minority Biomedical Support Program (a) Executive Committee, to Aug. 1977 (b) Advisory Council, from Sept. 1977.
2) Member, Advisory Committee, Minority Center for Graduate Education from May 1977.
3) Member: Cultural Program Committee from July 1977.

Howard Bryant
Chairman, Physics & Astronomy Public Relations Committee.

Joey B. Donahue

J.D. Finley, III
Faculty Sponsor; The Uncertainty Principle, Graduate Assoc. for Physics Students.
Chairman, University Faculty Library Committee, spring sem. only. Chairman, Dept. Graduate Committee; Faculty Advisor for Undergraduates and for Graduate Students; Member, Univ. Fac. Library. Member of A&S Collg. Grad. Committee; Dept. Library Liaison.

John R. Green
Chairman, Committee on Academic Freedom and Tenure.

John L. Howarth
Director General Honors and Undergraduate Seminar Program; Member Faculty Senate, Faculty Senate Committee on Undergraduate Academic Affairs, General Honors Council, Physics and Astronomy Department Undergraduate Committee.

David S. King

C.P. Leavitt
Dean's Promotion Committee
Advisor for Los Alamos Graduate Students

Victor H. Regener
Department Chairman, Physics & Astronomy

Derek B. Swinson

David M. Wolfe
Chairman of Dissertation Committee for Willard Thomas, Ph.D. May 1977; served on Dissertation Committee for Roger Carlini, Ph.D. 1977; Chairman Committee on Studies, Carl Herrmann. Chairman Departmental Undergraduate Committee. Member Dept. Graduate Committee.
9. Public service

Harjit S. Ahluwalia
Served as Judge and Chairperson of Senior Physics Section at 25th New Mexico Science Engineering Fair at Socorro, New Mexico.

Seymour S. Alpert
Member, Albuquerque Big Brothers Association
Sec'y of Board of Directors of Chavvrat Hamidbar (Fellowship of Desert).

Charles L. Beckel
1) Kidney Foundation of New Mexico, Inc.; Member Executive Committee Chairman of Research Committee; Delegate Trustee.

Howard Bryant

David S. King
Talked to several elementary school groups.

C.P. Leavitt
Member of Governor's Council on Developmental Disabilities
Albuquerque Recorder Society

Alan W. Peterson
Had two groups of boy scouts from Rio Rancho at campus observatory.
Gave a talk to members of "Die Weinstube" wine tasting society on improving the quality of amateur wines.

Derek B. Swinson
Pack Chairman for Cub Scout Pack -- Introduced Music Program for Cub Pack.

Michael Zeilik, II
"Starbirth", talk to Alpha Centauri Club, Albuquerque; "Stardeath", Southeast Mo. State Univ.; "Black Holes", Albuquerque Academy;
"Death of Stars", Monday Study Group, Alb.; "Star Death", Harvard-Yale-Princeton Club of N.M.
10. Personal information

Alan W. Peterson
Daughter born May 26, 1977
Successfully sued the University for medical claim due to a back injury in 1974.

David M. Wolfe
Son: Daniel Born on 1 Nov. 1977
The Report of the Department of Political Science

July 1, 1977–June 30, 1978

Robert J. Sickels, Chairman

I.A. Significant achievements during the academic year 1977-78:

Two members of the department were involved in securing and then working on an NSF grant on teleconferences in legal hearings. One developed a Sandia/UNM contract on environmental policy analysis.

A special section of the introductory American politics course for students with very low ACT scores was run and monitored. A final analysis of the course is being prepared.

A new curriculum was developed in the department, in public policy and public affairs, in response to needs reported nationally and reflected in graduate applications locally. A reordering of existing courses is all that is required for the time being.

I.B. Significant plans and recommendations:

We plan to make courses in public policy and public affairs available regularly from now on, to encourage men and women working in state government to improve their skills and earn M.A.s in political science. At the main campus, the public policy curriculum will systematize the training of public servants and others at the B.A., M.A., and Ph.D. levels. Qualified graduates of the Public Administration program will find it increasingly possible to enter our Ph.D. program.

I.C. Appointments to staff:

Ivory T. Robinson, Assistant Professor, August, 1977.

Martha H. Good, Assistant Professor, January, 1978.

I.D. Separations from staff:

Edwin C. Hoyt, Professor, retired June, 1978.
II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study. (No faculty member responded to this section.)

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

One faculty member, Jay B. Sorenson, Professor, was on sabbatical during the academic year 1976-1977, doing work at Los Alamos Laboratories, Energy Division, Q12. Two faculty members travelled during the period. Martin C. Needler, Professor, travelled to Ecuador, Chile, Peru, and Argentina in January; to Mexico, Guatemala, Venezuela, and Curacao in June; and to Germany, Romania, Bulgaria, Yugoslavia, Hungary, Czechoslovakia, and Austria in July and August. Karen Remmer, Assistant Professor, travelled during the summer to Mexico and Sweden.

3. New Scholastic honors, fellowships, etc.

Various honors, fellowships, grants, etc. were awarded to faculty members in the department in 1977. Peter A. Lupsha, Associate Professor, received a $600.00 grant from the Governor's Organized Crime Prevention Commission to study organized crime and narcotics intelligence information systems. (This study looks at ways in which law enforcement officials in various Southwest border states develop criminal intelligence in the areas of drug trafficking and organized crime.) Martin Needler, Professor, was named 1977 Annual Research Lecturer, University of New Mexico. Professor Needler was also recommended by the Presidential Advisor Board on Ambassadorial Appointments for Ambassador to Ecuador. (The President decided on a career FSO appointment.) James Lee Ray, Assistant
Professor, received a University of NM Research Stipend for Summer, 1977.

4. Publications during the Period.

Several faculty members in the Department of Political Science published books, articles, book reviews, etc. in 1977. These publications are listed below.

F. Chris Garcia, Associate Professor:


Fred R. Harris, Professor:


Thomas Lane Hurley, Assistant Professor:


Peter A. Lupsha, Associate Professor:


Martin C. Needler, Professor:


4. Martin C. Needler (continued)


"Oil: The Latin American Connection," (with Jan K. Black), New Mexico Alumnus, December 1977.


James Lee Ray, Assistant Professor:


Karen L. Remmer, Assistant Professor:


Robert Seward, Assistant Professor:


Robert J. Sickels, Professor and Chairperson:


Jay B. Sorenson, Professor:


4. Jay B. Sorenson (continued):

"Toxic Substances Research - Section 208 of the Water Pollution Control Act," Proceedings of the 22nd Annual New Mexico Water Conference, New Mexico Water Resources Research Institute, WRRI Dept. No. 089, July 1977, pp. 82-105.


5. Other Research Projects or creative work in progress or completed during period.

A number of the faculty were engaged in research projects, and/or in the writing of books, articles, papers, etc., during 1977.

The work(s) of each of these faculty members is specified below.

F. Chris Garcia, Associate Professor:

Completion of survey of environmental attitudes of New Mexico state senators and their constituents, OWRT sponsored, $3,372.


Paul L. Hain, Associate Professor:

Engaged in studies of state politics and of political careers.

Fred R. Harris, Professor:


Thomas Lane Hurley, Assistant Professor:

"Policy Innovation: A Causal Interpretation."


"Understanding the Fair Hearing Process in New Mexico."


"Locus of Control in Administrative Fair Hearings: Who's Doing It to Whom?"
5. **Thomas Lane Hurley** (continued):

"Administrative Fair Hearings: A Bibliographic Essay."

Untitled research paper to be delivered at the Annual Meeting of Law and Society Association in Minneapolis (Spring 1978).


Untitled research paper to be delivered at the 1979 Annual Meeting of the American Political Science Association.


Research Director, National Science Foundation Grant ($280,993), "Teleconferencing in Goldberg V. Kelly Administrative Hearings," 1977–present.

**Peter A. Lupsha, Associate Professor:**

Legislative Folkways Project. Several articles for popular audiences in progress. "Notes on the Legislature" is scheduled for publication in 1978. (FRAC-UNM 1976 funded.)

Political Corruption and Organized Crime in the Southwest. (Ongoing, unfunded.)

Urban Migrants Project. The impact of middle class urban population migration on public policy in the Southwest. (IARS-Division of Government Research seed money, $2,500.)

Analysis of pilot study in Rio Communities (Belen) in progress.


**Martin C. Needler, Professor:**


*The Latin American Oil Exporters and the Energy Crisis*, Editor and co-author, (forthcoming).

5. Martin C. Needler (continued):

"Latin America and the U.S. Energy Problem" (forthcoming).


James Lee Ray, Assistant Professor:

Global Politics. An introductory textbook in International Relations, for Houghton Mifflin (completed).

"Dependency, Political Compliance, and Economic Growth in Latin America and Eastern Europe," to be presented at the Annual Convention of the Southwestern Social Science Association in April 1978.


Karen L. Remmer, Assistant Professor:

"Party Competition and Public Policy: Chile and Argentina, 1890-1930" (monograph).

"Political Demobilization in Chile, 1973-1977" (article).


Robert Seward, Assistant Professor:


"Environmental Attitudes and Regional Differences," (co-author, forthcoming).
5. **Robert J. Sickels, Professor and Chairperson:**

Book on *The Presidency* begun. Under contract to Prentice-Hall, Inc.


**Jay B. Sorenson, Professor:**


Los Alamos Laboratories Energy Division, *"The Legal & Institutional Constraints on Solar Space Heating & Cooling,"* A policy analysis prepared as part of Legislative Strategies in an Energy Exporting State Project, June 1977, REF: LP 7-80924-1.


In Progress: NM State Engineer, *"The Availability of Water in the San Juan Structural Basin,"* Contract #283-581-1, $10,000.

*"Environmental Considerations of Reprocessing Facilities in New Mexico,"* (with G. Whan) forthcoming.


**Harry P. Stumpf, Professor:**

Senior Project Consultant, National Science Foundation Grant ($280,993), *"Teleconferencing in Goldberg V. Kelly Administrative Hearings,"* June 1977 - present.

6. **Activities in Learned and Professional Societies.**

Faculty members participated in learned and professional societies in various ways during 1977, including holding offices, reading professional papers, serving as panel discussants, attending meetings, etc. The specific activities of participating faculty members are listed below.
F. Chris Garcia, Associate Professor:


President, Western Political Science Association. Attended annual meeting in Phoenix, AZ, April 1977.


Continued membership on the Pre-Collegiate Education Committee of the American Political Science Association.

Paul L. Hain, Associate Professor:

Chairman, Panel, "Elections and Recruitment at the Local Level," at the 1977 Annual Meeting of the Southwestern Social Science Association, Dallas, TX.

Member, Roundtable on "Studying State Politics in the Seventies," at the 1977 Annual Meeting of the Midwest Political Science Association, Chicago, IL.

Fred R. Harris, Professor:

Panel Discussant at Western Political Science Association meeting, Phoenix, AZ, 1977.

Edwin C. Hoyt, Professor:

Member of the American Society of International Law Study Panel on the Role of Law in Government Decision-Making in War-Peace Crises, 1967 to present.

Peter A. Lupsha, Associate Professor:

Associate Editor, Western Political Quarterly.


Martin S. Needler, Professor:

6. **Martin S. Needler** (continued)


Member, Sub-committee on Ethical Standards, Latin American Studies Association.

Member, Gabriel Almond Dissertation Award Committee, American Political Science Association.

**James Lee Ray, Assistant Professor:**


**Karen L. Remmer, Assistant Professor:**


Chairperson, Latin American Program, Western Social Science Association meeting, Denver, CO, April 1977.

Paper Presentation, "The Dynamics of Authoritarian Regimes: The Case of Chile," at the Latin American Studies Association meeting, Houston, TX, November 1977.

**Robert Seward, Assistant Professor:**


**Jay B. Sorenson, Professor:**


Paper Presentation, "Toxic Substances, Section 208 of the Water Pollution Control Act," at the 22nd Annual New Mexico Conference, Las Cruces, NM, April 1977.


**Harry P. Stumpf, Professor:**

Discussant, Panel on Public Law, Western Political Science Association Meeting, Phoenix, AZ, April 1977.
6. **Harry P. Stumpf** (continued)


7. **Other Professional Activities.**

Other professional activities in which faculty members participated in 1977 include consultancies, radio and television appearances, on- and off-campus talks, etc. Specifically:

**F. Chris Garcia, Associate Professor:**

Consultant, Voting Rights Act Project, UNM Linguistics Department.

Talk to the Alpha Mu Chapter of Pi Lambda Theta (education honorary), March 1977.


Television appearance (KNME) on Governor's Committee on Integrity television series, panel discussion on "State Government Reorganization," June 1977.


Refereed reviews of manuscripts for **Social Science Quarterly** (3), **American Politics Quarterly** (1) and **Western Political Quarterly** (1).

**Paul L. Hain, Associate Professor:**

Reviewed articles submitted for publication in **Western Political Quarterly, Journal of Politics** and **American Political Quarterly**.

Two television appearances to discuss New Mexico government with Ernie Mills.


**Fred R. Harris, Professor:**

Panel member, Labor Issues Series, forum and radio programs, sponsored by the New Mexico Humanities Council and the NM AFL-CIO, 1977-78.
7. **Fred R. Harris** (continued)

Several speeches, lectures and radio programs on political science topics.

**Thomas Lane Hurley, Assistant Professor:**

Consultant on Survey Research Sampling, Design, Measurement and Analysis for:

- Zia Research Associates, Albuquerque, New Mexico 1976-
- Larry Adcock Associates, Albuquerque, New Mexico 1977-
- The American Heart Association, Albuquerque, New Mexico 1977-
- The American Red Cross, Albuquerque, New Mexico

**Peter A. Lupsha, Associate Professor:**


**Martin C. Needler, Professor:**

Lectures at: University of Victoria, B.C.; Simon Fraser University; Lester Pearson College; University of Kansas; Central College, Iowa; and, Universidad de Merida Venezuela.

Consultant: State of Louisiana Board of Regents; Booz, Allen & Hamilton; Smithsonian Institute.

Speaker in Colloquium on Oil Policy, Department of State.

Member, National Advisory Board, Border Research Program. Attended meeting in Austin, TX, February 1977.

Member, Board of Directors, Development Strategies (non-profit public service).

Member, Editorial Board, *Armed Forces & Society*.

**James Lee Ray, Assistant Professor:**

Participant in Symposium on "Panama Canal Treaties," sponsored by the New Mexico Humanities Council, Albuquerque, NM, November 1977.

Radio appearance on the "Bruce Hanson Show," KZIA, Albuquerque, to discuss Panama Canal Treaties.
7. Karen L. Remmer, Assistant Professor:

Program Coordinator, Conference on Contemporary Latin America, University of New Mexico, April 1977.

Radio appearance, KZIA, November 1977.

Chairperson, Panama Canal Symposium, Albuquerque, NM, November 1977.

Jay B. Sorenson, Professor:

Staff Consultant, New Mexico House Ways and Means Committee, New Mexico State Legislature, 33rd Session, Jan.-March, 1977.

Legislation drafted and lobbied successfully, "El Rio Chama, Scenic and Pastoral Act," passed legislation and signed by Governor, April 6, Ch. 242.

Legislation assistance, "Water Fund Allocations," Rep. S. Kennedy, passed legislation and signed by Governor, April 6, Ch. 205.

"Executive Reorganization Act," Rusk (House Bills 4-17), passed and signed by Governor, April 7, Chs. 247-257.


Participant in Symposium on "Ethics in Government Campaign Reform," Governor's Program, recorded for television showing January 1977, Albuquerque, NM.

Executive on Loan to Governor Jerry Apodaca, 1975-

Member, Natural Resources Sub-Cabinet, New Mexico Governor's Cabinet, 1976-


In 1977, faculty members in the Political Science Department served the University in a variety of ways, through committee memberships both in and outside of the Department, through administrative positions held, in advisory and consultant capacities, etc. Their service in these areas is detailed below.
8. **F. Chris Garcia, Associate Professor:**
   - Associate Dean, College of Arts and Sciences
   - Faculty Senate
   - Committee on Undergraduate Affairs, UNM Faculty Senate
   - Admission and Registration Committee
   - Faculty Sponsor of Presidential Scholar
   - Faculty Sponsor, Christians on Campus (Fall, 1977 term)
   - Faculty Sponsor, Rugby Club (Spring, 1977 term)
   - Editorial Advisory Board, "Four Star News" (non-profit, multicultural, community newspaper).
   - College of Arts & Sciences Ad Hoc Committee on Interdisciplinary Majors
   - College of Arts & Sciences Chair, Student Advisory Committee
   - Department Representative at Commencement Exercises
   - Member, Department Recruitment Committee
   - Member, Harry S. Truman Scholarship Committee

**Paul L. Hain, Associate Professor:**
- Member, University Benefits Committee
- Member, Department Executive Committee
- Advisor to numerous undergraduate Political Science majors
- Supervised one Honors Thesis (undergraduate)

**Fred R. Harris, Professor:**
- Member, Department Undergraduate Committee
- Member, Department Executive Committee

**Thomas Lane Hurley, Assistant Professor:**
- Research Associate Professor, Division of Public Administration, University of New Mexico, Summer 1977.
8. Peter A. Lupsha, Associate Professor:

Member, Policy Planning Committee, Division of Public Administration, University of New Mexico

Member, Provost's IARS, Executive Committee

Member, Dean's Arts and Sciences College Graduate Committee; Chairman, Sub-committee on Structure of Graduate Education

Faculty Advisor, Jewish Student Union 1976-1977

Chairman, Department Graduate Committee

Martin C. Needler, Professor:

Director, Division of Inter-American Affairs

Consultant, University of New Mexico Press

Member, President's Task Force on Latin American Programs

James Lee Ray, Assistant Professor:

Member, Department Recruitment Committee

Liaison Person Between Department and the Library

Karen L. Remmer, Assistant Professor:

Assistant Director, Division of Inter-American Affairs

Faculty Advisor, Student Organization for Latin American Studies (SOLAS)

Faculty Senate: Senate Committee on Graduate Programs and Standards

Department Recruitment Committee

Arts & Sciences Committee on Academic Programs

Arts & Sciences Latin American Search Committee

Business School Latin American Search Committee

Title VI Fellowship Screening Committee
8. Robert J. Sickels, Professor and Chairperson:

Department Chairperson
Faculty Liaison for the Harry S. Truman Scholarship Foundation

Jay B. Sorenson, Professor:

Director, Office of Environmental Policy Analysis Support Program, University of New Mexico/Sandia Laboratories


In addition to teaching and other professional activities, some faculty members contributed, in a variety of ways, to organizations outside of the University and of their professional careers. These activities are described, briefly, at this point.

Paul L. Hain was active in the Parent-Teacher Association (PTA), in addition to addressing the Junior League (Albuquerque) and various service clubs. Fred R. Harris served as President of New Mexicans for Tribal Development, an organization of non-Indians interested in further Indian self-government and economic self-sufficiency. Peter A. Lupsha was, and is, a member of the New Mexico Council on Crime and Delinquency, and was a member of the Board of New Mexico Zoological Society. Martin C. Needler served as Consultant for the National Endowment for the Humanities, and for the Department of State. Finally, Jay B. Sorenson served as Vice-Chairman, Open Spaces Task Force, City of Albuquerque; as President, Albuquerque Committee, Council of Foreign Relations; as Vice-Chairman, New Mexico Wilderness Commission; and, on the Board of Directors of the New Mexico Wilderness Study Committee.
III. Students' Plans

A questionnaire was distributed in all Political Science classes asking graduating Political Science majors for information concerning their plans to continue their education, in what institutions and in what fields, or their plans to look for work, where, what kind, etc.

Our four M.A.'s for the year plan: one to attend UNM law school, one to seek government employment, one to work for a year and then to seek a Ph.D., and one to return to Honduras to teach in public school.

At the bachelor's degree level, of those responding to the questionnaire, 9 (53%) indicated that they plan to continue their education. Of those planning to continue their education 3 (34%) have plans to attend Law School, one at the University of Michigan and 2 at the University of New Mexico. Two (22%) will work on advanced degrees in Political Science, one at Florida State University and one at the University of Michigan. One graduate (11%) plans to attend Andrews University, in Michigan, majoring in theology; one student (11%) plans to study for a degree in Educational Foundations at St. Johns College, in Santa Fe, New Mexico; and two (22%), who plan to continue at the University of New Mexico, are uncertain about the field in which they plan to continue their education.

Eight (47%) of those responding to our questionnaire indicated that they intend to look for work. Of these, 3 (37.5%) have job offers in hand — one respondent has been offered a job in the Retail Management Program, Sears, Roebuck & Company; another has an offer with D.E.A. in Washington, D.C.; and a third person plans to continue working in her
own business (she did not indicate what kind of business). Five (62.5%) of those who plan to look for work indicated that they have no job offers in hand, and gave no indication of where they plan to look for work or what kind of work they would seek.

<table>
<thead>
<tr>
<th>Plan to Continue Educ.</th>
<th>Field</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Law</td>
<td>U. of New Mexico (2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U. of Michigan (1)</td>
</tr>
<tr>
<td>2</td>
<td>Political Science</td>
<td>Florida State U. (1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U. of Michigan (1)</td>
</tr>
<tr>
<td>1</td>
<td>Theology</td>
<td>Andrews U., Mich. (1)</td>
</tr>
<tr>
<td>1</td>
<td>Educ'l Foundations</td>
<td>St. Johns College, Santa Fe, NM (1)</td>
</tr>
<tr>
<td>2</td>
<td>Unknown</td>
<td>U. of New Mexico (2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plan to Look for Work</th>
<th>Job Offers in Hand</th>
<th>Where? What Kind?</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Yes</td>
<td>Retail Mngmnt Program, Sears, Roebuck &amp; Co. (1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Own business (1)</td>
</tr>
<tr>
<td>5</td>
<td>No</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

Since there was reluctance to answer questions of this sort, some of which were intrusive, we recommend that they be posed by the central administration henceforth.
Introduction and Summary. This was again a productive and successful year for the department of psychology. We hired two new faculty, with the major objective of broadening our range of offerings, reducing the size of freshman courses, and further reducing our dependence on part-time faculty. Psychology continues to have the second highest student-faculty ratio in the College of Arts and Sciences (and the University), exceeded only by Sociology. No major changes were made in our undergraduate and graduate program; these programs were reviewed extensively a year ago. At that time the faculty reaffirmed its emphasis on an integrated graduate program with a core focus on the experimental psychology of learning. The department continues with the four basic areas of clinical, developmental, learning, and psychobiology. The strong departmental honors program was maintained. The recruitment of minority and women students was continued and the department continued its effective advisement of students. Our UNM-Hawaii faculty exchange program began its second successful year. We continued to emphasize the strong research orientation of the department which has enabled us to achieve national recognition and prominence.

We were pleased with the renewal of our NIMH training grants in experimental and clinical psychology. We were especially pleased that the administration authorized our purchase of a PDP 11/04 computer. This was a long-sought goal which deserves special notice. Our critical needs of the near future include additional space, support for additional TAs from the University, better support for travel, and greater assurance of staff-secretarial support in view of our extensive use of soft money. The faculty consisted of 26 voting members, four of whom hold appointments in other units as well as psychology.
I. General Department Information

A. Undergraduate Education. At the undergraduate level, the department handled a total enrollment of 3,756 students in introductory lectures (of whom 1,117 participated in the optional additional laboratory hour), and 3,980 in advanced courses (of whom 98 participated in the advanced laboratory courses). The graduating classes of 1977-78 included 81 Psychology majors and 66 Psychology minors. Departmental honors were awarded to: Frances Avery, Sharon Green, Scott Harvel, Teresa Johnson, Mark Joyce, Colleen MacLennan, Rebecca Mead, Joan Pulakos, Richard Smith, Jerry Thompson, and Jeffrey Toft. Based on our available budgeted FTE of 22.53, the above figures represent approximately a 34.3 student/faculty ratio. Based on our functional staff of 21.19 for the year, the ratio would be approximately 36.5.

The department offered an honors section of Psychology 102 and we will offer honors sections of both Psychology 101 and 102 in 1978-79. The addition of new faculty in 1978-79 will enable us to reduce the size of introductory psychology classes. Special no-credit discussion sections were offered on a volunteer basis in conjunction with introductory psychology. In addition, we initiated a special enrichment program in conjunction with introductory psychology. No substantive changes were made in the undergraduate program, but it is under steady review in relation to educational needs, the personnel available, and student interests. The program is sound and well-designed, and the major problem is offering sufficient sections of the most popular courses to accommodate the demand. The staffing of sufficient sections of Psychology 101 and 102 will improve substantially in 1978-79.

B. Graduate Education. At the exclusively graduate level, the department handled a total enrollment of 384 distributed among 51 registered students. These figures represent a continuation of our policy of restricting graduate enrollment within a 3:1 student/faculty ratio.
The Master's Degree was conferred upon 14 candidates: James Allender, Thomas Boyd, Merith Cosden, Lloyd Crawford, Robert Frank, Paula Hertel, Vega Lalire, Sam Leigland, Daniel Matthews, Stefani Nervig, James Pittman, John Schnizlein, Timothy Strongin, and Sherman Tyler.

The Doctoral Degree was conferred upon 7 candidates:

Brian Charles Babbitt
Adviser: Henry C. Ellis
The effect of task demands on dual-coding of pictorial stimuli

Sarah Kathleen Feeney
Adviser: Samuel Roll
Transvestism: The effects of cross-dressing on personality

Susan E. Gonzales
Adviser: Carol Conrad
Coding processes in bilingual word recognition

Charles R. Grah
Adviser: Henry C. Ellis
Storage and retrieval processes in retention

Bruce A. Kushner
Adviser: G. Robert Grice
Disjunctive reaction time: A variable criterion approach

Elliot Jay Rapoport
Adviser: Peder J. Johnson
Developmental aspects of nonsolution in adults

Ward Arthur Rodriguez
Adviser: Frank A. Logan
Effect of interpolated stimulus training on generalization to a reinstated stimulus: Reciprocal generalization

A longstanding problem for our graduate program has been insufficient financial aid for our graduate students. Our budgeted support for 1978-79 remains at the 1972-73 level of support. For the past three years we have received 3-4 additional TAs, but these increases were temporary. While these increases were appreciated the department needs a permanent increase of 4 additional TAs.

There is also the characteristic delay in obtaining information about support, a local as well as a national problem. Each year we lose top students because we cannot make definitive offers of support in sufficient time to compete with other institutions. In addition, we were unable to attract many of our most qualified and interested applicants because of lack of financial support. Nevertheless, we were able to provide some support for most of our students, with 14 as teaching assistants, 5 as research assistants, 14 as NIMH trainees, 4 APA minority fellowships, and
two with tuition scholarships. Local clinical facilities support 4 other students.

Our grants for the support of graduate training by NIMH and the minority fellowships from the American Psychological Association were renewed for 1978-79. The NIMH Training Grant in Clinical Psychology (Director, Sidney Rosenblum) begins its second of a three-year award, supporting 6 graduate students each year. The NIMH Research Service Award in General Experimental Psychology (Director, Henry Ellis) begins its second of a five-year award, 8 graduate students being supported. These awards provide continued evidence of the recognition of our program at a national level.

Recruitment of quality minority status and female graduate students continued. As a faculty we continue our resolve to maintain a high quality program with a reputation for excellence.

C. Staff. The faculty of the department numbered 26 during the 1977-78 academic year, composed of Professors Benedetti, Ellis, Ferraro, Grice, Johnson, Koenig, Logan, Norman, Rhodes, Rosenblum, and Ruebush; Associate Professors Feeney, Friden, Gluck (sabbatical leave), Harris, and Roll; and Assistant Professors Blake (on LIOP), Conrad, Delaney, Goetz, Harnick, Hodge, Katz, Miller, Padilla, and Parsons. Of these, Benedetti served as Associate Dean of the Graduate School, Norman served as Associate Dean of the College of Arts and Sciences, and Koenig's and Ruebush's primary commitment remained with the Department of Psychiatry. Our budgeted FTE faculty was 22.53 and, recognizing leaves, the functional FTE faculty was 21.19. Prof. Feeney was promoted to full Professor.

Jean Rogers and Min Kantrowitz served as part-time faculty members. Affiliated faculty during the year were: Professor Lester Libo, Assistant Professors Philip Day, Rene Silleroy, Bret Snyder, and Louis Wynne; as well as Adjunct Associate Professors Bruce Porch and Joseph Schenkel; Adjunct Assistant Professor Kathleen Haaland; and Clinical
Assistant Professors Joseph Cardillo, Robert Dlincan and Donald Flammer.

Both new appointments to the faculty were at the Assistant Professor level: Mark Brecht, Ph.D., Johns Hopkins University, 1978, whose area is human performance and applied psychology; and William Gordon, Ph.D., Rutgers University, 1973, whose area is animal learning and memory. Prof. Gordon held the rank of Associate Professor at SUNY, Binghamton, but was willing to accept an appointment at a reduced rank for this academic year.

Prof. Blake resigned from the department in 1978.

D. Colloquia. Distinguished speakers in our colloquium series during the year included: Robert Boice (University of Missouri), Kenneth H. Craik (University of California; Berkeley) with School of Architecture, Seymour Feshbach (UCLA), William A. Johnston (University of Utah), and Peter R. Killeen (Arizona State University).

In addition, several faculty were interviewed for our positions in learning-motivation, developmental, and human performance psychology. These were John Barth, Mark Brecht, William Gordon, William Jacobs, Clyde Pentz, Penn Pfautz, Michael Pressley, and all gave colloquium talks. Overall, this important adjunct to our regular programs was invaluable in adding breadth of exposure. What is needed most in this context is to involve more of our local people, particularly affiliated faculty, in this program.

E. Research. The department continued to be productive in its research efforts. We published 40 major articles or monographs, gave 92 lectures, workshops, or reports, and garnered $197,000 in extramural support. The department is engaged in a wide range of research activities which can be only briefly noted here.

Research in human learning, memory, and cognition includes work on visual and verbal elaboration of verbal materials in the context of a Markov model of learning as well as studies of probabilistic information.
processing. In addition, studies of coding and organization in memory, and constructive processes in memory are being conducted. Studies of semantic memory and the role of context in sentence memory concern general problems in psycholinguistics. At the level of conceptual behavior we are doing research into the way humans learn rules and apply them. At another level we are carrying on studies of simple and choice reaction time, and in perception we are developing a model of color vision with the objective of describing the "space" of color in terms of Euclidean principles. Extensive research in animal learning and behavior, psychopharmacology, and physiological psychology was conducted. Studies of the effects of hormones on brain functioning and eating and drinking, and locomotor behaviors were conducted. Studies of animal discrimination learning, sensory preconditioning, aversive control, and dominance in animals were continued as part of long-term research programs. There is ongoing research on the effects of drugs on behavior, including long-term effects of drugs on complex processes. Major studies on the effects of marihuana are being conducted. Studies of the effects of early experience on subsequent adult behavior are being conducted with a focus toward identifying procedures which might reduce the traumatic effects of early deprivation. In addition, drug studies with epileptics were continued with an emphasis on identifying drugs which might suppress the cortical activity associated with epilepsy. Similarly, we were involved in studies of flashed evoked potentials as they related to migraine headache, and in studies of sleep.

Other studies focused on developmental, educational, clinical, and social psychology. Research on the behavioral treatment of problem drinkers and alcoholism was continued, which included a clinical facility to deal with the problems of those who drink excessively. Another new area is research into hypnotic effects and various instructional procedures affecting hypnotic behavior. A project in the treatment of depression was
continued, as was a project on infant imitation and play. Studies in attribution and learned helplessness were initiated. Applied research in child development focused on individual instructional procedures and self-control in preschool children. Our faculty studies the role of dreams, the motives of sex molesters, adolescent suicide, and the importance of humor in normal behavior. We have long been involved in evaluating the effectiveness of behavior therapy using conditioning procedures. Studies in cross-cultural psychology and ethnic differences in personality were initiated. Studies of sex roles and sex differences in age concealment are being conducted. We also are involved in studies of learning disabilities of a wide variety with some emphasis on emotionally-based reading disabilities. We continue to work on grading practices and teacher evaluation. Studies in experimental social psychology continue with an emphasis on quantitative models in social psychology.

While this is not a complete account of all the research activities of the department, it is illustrative of the wide range of research interests and activities of this faculty. The richness and diversity of our activities should be apparent and we hope for greater support of these activities in the future.

F. Scientific and Professional Societies. Members of the department continued to play an active leadership role in scientific and professional societies. Prof. Ferraro served as Secretary of UNM's Sigma Xi and Secretary, SWARM Division of the American Association for the Advancement of Science; Prof. Grice served as Chairman of the Governing Board of the Psychonomic Society; Prof. Harris was elected President of the Southwestern Division of the Society for Multivariate Experimental Psychology; Prof. Katz founded the New Mexico Society for Clinical and Experimental Hypnosis; Prof. Logan became President of the Division of Experimental Psychology, American Psychological Association, and served as a member of the Council of Representatives of APA, and a member of the Executive Committee of the
Southwestern Psychological Association; Prof. Padilla served as a member of the American Psychological Association Minority Fellowship Program Committee; Prof. Rhodes served as a member of the Executive Board of the Albuquerque Association for Children with Learning Disorders; Prof. Rosenblum served as Chairman of the New Mexico State Board of Psychologist Examiners; and Prof. Ellis served as President of the Southwestern Psychological Association, Chairman of the National Council of Graduate Departments of Psychology, and as liaison member of the Education and Training Board of the American Psychological Association.

In addition, the Psychology faculty continued to play an important role in serving on the editorial masthead of many journals. Serving as regular consulting editors were Profs. Ellis, Ferraro, Grice, Harris, Johnson, and Logan.

G. Service. Our service activities continued at a very high level. These included the North Central Association, the Rocky Mountain Psychological Association, the Southwestern Psychological Association, the American Psychological Association, the Society of Experimental Psychologists, the National Council of Graduate Departments of Psychology, the American Association for the Advancement of Science, Agora, the Psychiatric Intern Program, Indian Health Service, Programs for Children, International Neuropsychological Society, Esperanza School, Child Guidance Center, Association of Drinkwatchers, Bernalillo County Head Start, Manzanita Center, Counseling Center, Computer Center, Animal Control Facility, Laguna Pueblo, New Mexico Public Defender's Office, religious organizations, athletic organizations, publishers, cultural organizations, Sandia Base, Albuquerque Roadrunners Club, the New Mexico Science Fair, the New Mexico Psychological Association, the New Mexico Board of Psychologist Examiners, Department of Vocational Rehabilitation, Career Services for the Handicapped, the Veterans Administration, Rio Grande Zoo, hospitals at Las Vegas and Los Lunas, the State Penitentiary, Albuquerque Public Schools, Albuquerque Academy, and
Sandia Preparatory School. All of our faculty were involved in one or more of these functions. In sum, we continue to be highly visible at all levels of service functions.

H. Space. Psychology has become crowded for space. All available space is currently used. As of this year we are unable to adequately house faculty except by using an office of a faculty member who will be on LWOP and by using space currently occupied by office staff. In turn, office staff will be housed in space currently assigned either to graduate teaching assistants or to a heavily-used seminar room.

Research facilities are now occupied to the hilt. Thus, we lack adequate housing for faculty and staff; we are limited to one seminar room; we do not have a suitable colloquium room, and our lounge space is used basically as a study room. We anticipate additional space needs for classrooms, offices, and laboratories. We may need space for a psychological clinic. All of these needs indicate that a new two-story building, constructed adjacent to the current building, will be necessary to meet the needs of the department for the next ten years. The department will begin discussion of new facility needs during 1978-79.

I. Administration and Support Staff. Henry Ellis served as chairman and Sidney Rosenblum as assistant chairman during the year. All faculty participated in the administration of the department by serving on various departmental committees. I wish to express my appreciation to Sidney Rosenblum for his able assistance and to the faculty in general for its cooperation and support.

Eleanor Orth continued to serve in her very effective capacity as Office Manager. I wish to express my continued appreciation to her for helping make my administration effective. Her humor combined with her tireless efficiency made my task reasonable. LaNelle Ruebush continued to serve the department effectively as Department Secretary. Other
secretaries serving the department during the year were Joan Block, Maria Chavez, JoAnn Jaramillo, Virginia Moore, and Jill Ngola. Ector Estrada continued to supervise the animal facilities and Jim Casaus was hired as animal technician. Verlin Williams was hired as shop supervisor. In addition, during portions of the year, various students served as part-time clerical or lab assistants. Other departmental assignments were made among the secretaries in order to broaden their experiences with accounts, etc.

J. Plans for Graduating Seniors. We conducted a survey of the plans of graduating seniors. We surveyed 81 seniors by mail questionnaire. We have complete data on all our Masters and Ph.D. students, but only partial data on undergraduate seniors. Of those responding, the plans are as follows:

| Total number of graduating seniors | 81 |
| Number continuing their education in Psychology | 8 |
| in Professional Schools | 1 |
| Number planning to look for work | 9 |
| Have actual offers | 2 |
| Do not have offers | 7 |

| Total number of Master's degrees | 14 |
| Number continuing their education in Psychology | 13 |
| in Professional Schools | 0 |
| Number planning to look for work | 1 |
| Has actual job | 1 |

| Total number of Doctor's degrees | 7 |
| Number having actual offers | 7 |
| Does not have offer | 0 |

K. University Awards and Honors. Frances Harnick was selected as Outstanding Teacher for Undergraduates for the Year, and Henry Ellis was selected as the Annual Research Lecturer.
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aActually no decrease--Psy. 201 not included as taught by Math dept.
bOnly Fall 1976 grades used for 1975-76 as analyzed by institutional Research.
cIncludes CR, W, I, PR, NC.
dOnly Fall 1976 grades included.
eFall 1977 grades included.
II. Composite of information requested on individual biographical supplements.

1. Advanced study

Gluck, John P.--Clinical Internship, Department of Psychiatry and Behavioral Science, University of Washington.

Hodge, Gordon K.--Ph.D., University of California at Los Angeles, degree granted: April, 1977. Dissertation title: Analysis of the role played by the substantia nigra in the mediation of ingestive, locomotor, and rotational behaviors as revealed by surgical and pharmacological manipulations.

Katz, Norman--Professional certification as a psychologist in New Mexico, May, 1977 by the State Board of Psychologist Examiners.

Koenig, Karl--One-week seminar in Human Sexuality by Masters and Johnson.

Miller, William, R.--Certified as psychologist in New Mexico, May, 1977 by the State Board of Psychologist Examiners. Audited Dr. Harris' course in Multivariate Statistics.


2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel

Ellis, Henry C.--Visiting Professor of Psychology, University of Hawaii, Summer, 1977.

Feeney, Dennis M.--On sabbatical Fall, 1977.

Gluck, John P.--Post-Doctoral Fellow, Department of Psychiatry and Behavioral Sciences, University of Washington. (Sabbatical, Fall, 1977)

Roll, Samuel--Sabbatical leave during academic year 1976-77 to Monterrey, Mexico. Time was spent in conducting cross-cultural research and providing supervision to Mexican professionals.

3. New scholastic honors, fellowships

Ellis, Henry C.--President, Southwestern Psychological Association; Chairman, National Council of Graduate Departments in Psychology.

Ferraro, Douglas P.--Promoted to Fellow, American Psychological Association, Divisions 25 and 28; Elected to Phi Eta Sigma and Phi Kappa Phi Honorary Societies; Secretary, SWARM Division of AAAS; Secretary, New Mexico Sigma XI; Nominated UWM Teacher of the Year; Program Chairman, Psychology, AAAS; Recognition, Distinguished Professor, Universidad del Noreste, Tampico, Mexico

Goetz, Therese E.--Chapter on "Attributions & Learned Helplessness" nominated for AAAS Social Psychology award by Philip Brickman.

Katz, Norman--Appointed to national training faculty, International Society for Clinical & Experimental Hypnosis; Elected member, Association for the Advancement of Behavior Therapy.

Roll, Samuel--Who's Who in the West.

Rosenblum, Sidney--Who's Who in the West; Who's Who (Child Development); Dictionary of International Biography.
4. Publications


Ferraro, Douglas F.--The UNM psychology reader. Lexington, Xerox, 1977. (with J. A. Parsons, eds.)


Within-subject analysis of the CS₁-CS₂ interval in sensory preconditioning with rats. Psychological Record, 1977, 27, 740-745. (with V. A. Spiker)
4. Publications (cont.)

Gluck, John F.--Acquisition and extinction of an operant response in differentially reared rats. Developmental Psychobiology, 1977, 10, (2), 143-149. (with H. P. Pearce)


Harris, Richard J.--**DTA2PROG converts file, UNM Computing Center Newsletter, 1977, Vol. 11, No. 4, p. 56.


4. Publications (cont.)

Miller, William R. (cont.)
The Banff Skiism Screening Test: An instrument for assessing degree of addiction. Addictive Behaviors, 1977, 2, 81-82. (with G.A. Marlatt)


Padilla, Eligio R.--Transcultural Psychiatry: An Hispanic Perspective. UCLA Spanish Speaking Mental Health Research Center Monograph No. 4, 1977. (with A.M. Padilla)
Familios latinos en los Estados Unidos: Temos de investigorion, Boletín de la Sociedad Inter-americana de Psicologia, March, 1977. (with A. M. Padilla)


Roll, Samuel--Relationships between sons' feelings of being understood by their fathers and measures of the sons' psychological functioning. Journal of Genetic Psychology, 1977, 130, 14-25. (with L. Millen)
Adolescent males' ratings of being understood by fathers, best friends and significant others. Psychological Reports, 1977, 40, 1079-1082. (with L. Millen)


5. Other research projects or creative work in progress or completed during period

Conrad, Carol--NIMH grant, $6,076, Bilingual Integration of Semantic Information. 5/77 to 4/78.

Delaney, Harold D.--Individualized branching strategies in computer-assisted instruction. Preliminary grant proposal submitted to the Exxon Education Foundation Research & Development Program.
Interaction of individual differences with visual and verbal elaboration instructions. Journal of Educational Psychology, in press.
5. Other research projects or creative work in progress (cont.)

Delaney, Harold D.--(cont.)


Project Director, NIMH Training Grant (National Research Service Award), 1977-1982, $43,000/yr.

Feeney, Dennis M.--Pilot work on description of brain injury.


Friden, Thomas F.--Statistical predictions of recovery from aphasia, submitted to Journal of Speech and Hearing Disorders.

5. Other research projects or creative work in progress (cont.)

Goetz, Therese E.--Initiating research on cultural differences in patterns of coping with negative evaluation.

Grice, G. Robert--Research Grant from DHEW, NIMH, $100,800, Principles of Response Evocation, 4/1/77 to 3/31/80.


Harrick project on ritual play in infants. (with H. Delaney & M. Joyce)

Harris, Richard J.--Applicability of equity theory to negative-input situations.
Anglo-Chicano differences in academic preferences and performance.
Tests of altruism modification model of behavior in experimental games.

Hodge, Gordon K.--Pharmacological effects on locomotor activity in rats with bilateral radio-frequency lesions of the substantia nigra and other areas, in preparation. (with L. L. Butcher)
Alterations in open field activity in rats with bilateral radio-frequency lesions of the ventral tegmentum, in preparation. (with M. Boyeson and R. Linn)
Electroconvulsive shock produces rotations in rats with unilateral radio-frequency lesions of the ventral tegmentum, in preparation. (with T. Hall and J. Toft)
Efficacy of EMG biofeedback training in relieving symptomatology of hyperkinetic children, in preparation. (with T. Giomi)


Grant, $44,166 in direct costs with 43% overhead, Influence of Strategies in Children's Cognitive Functioning, from 1975 to May 1978.


Comparative efficacy of behavioral training, training and relaxation, and hypnotic inductions for increasing suggestibility. Paper submitted to Sound of Abnormal Psychology.

Training subjects to experience deep hypnosis: A learning based experimental program. A research program which has completed pilot work, full scale research begins next semester. Funded by Research Allocation.

Hypnosis peak shift in human subjects. Pilot research program completed.

Hypnosis: Cognitive self control. Lecture/Demonstration/Workshop proposal accepted for Division of Clinical Psychology meetings, 3/1/78.
5. Other research projects or creative work in progress (cont.)

Katz, Norman (cont.)
A little skill and a little trance: Maximizing hypnotic responsiveness. Paper submitted for presentation at the annual International Society of Clinical-Experimental Hypnosis Meetings, 1978. (with Lloyd Crawford)

Differential trace conditioning to temporal compounds. Animal Learning and Behavior. In press.
NSF Research Grant ($35,000)
The incentive value of information. (Under review. With Wootton)
Punishment of instrumental and consummatory responses. (Under review. With Rodriguez)
The free sexual behavior situation. (In preparation. With F. A. Beach, University of California)

Miller, William R. --Computer program for estimating blood alcohol concentration: Applications in therapy and research. (with D. Matthews)
Multivariate prediction of outcome in the behavioral treatment of problem drinkers. (with M. Joyce)
Nature and sequence of neuropsychological deficits in alcoholics. (with J. Orr)
Relative effectiveness of bibliotherapy, individual and group self-control training in the treatment of problem drinkers. (with C. Taylor)
Evaluation of a module program for problem drinkers. (Grant funded by the National Institute on Alcohol Abuse and Alcoholism, $4985) (with C. Taylor)
Comparative efficacy of learning-theory-based treatments of depression. (with N. Katz)
Paraprofessionals, partners, peers, paraphernalia, and print: A model for the use of adjunctive agents in prevention, treatment and maintenance. Professional Psychology, in press. (with A. Christensen, and R. F. Munoz)
Anxiety and perceived causation in social success and failure experiences: Disconfirmation of an attribution hypothesis in two experiments. Journal of Abnormal Psychology, in press.

Norman, Ralph D. --Social class and ethnicity effects upon clinical judgments (submitted for 1978 RMPA meeting). (with R. Martinez)

Padilla, Eligio R. --Inhalant, marijuana and alcohol abuse among barrio youth and adolescents. Accepted for publication by the International Journal of the Addictions. (with A.M. Padilla, R. Ramirez, A. Morales, & E. L. Olmedi)
5. Other research projects or creative work in progress (cont.)

Padilla, Eligio R.--(cont.)

Parsons, Joseph A.--Effects of unit quiz mastery criteria on student performance. Submitted to The Journal of Personalized Instruction (under review) (with H. Delaney)
Student achievement as a function of proctor activity. Research completed, data to be presented at Midwest Association of Behavior Analysis, manuscript in progress.
Auditory stimulus control and peak shift in college students. Data collected but not as yet analyzed.
The precurrent response function in young children's memory. Data currently being collected.
The precurrent response function in pigeons' memory. Proposed research project to be conducted Spring semester.

Rhodes, John M.--Cognitive Factors in Focal Brain Disease (in progress) (with P. Turner, Neurosurgery)
Musical Recognition in Normals and Brain Damaged (in progress)

Adolescent males' feelings of being understood by their fathers as revealed through clinical interviews. Adolescence. (in press) (with L. Millen)
Fingertip skin temperature as an indicator of affect arousal. Psychotherapy: Theory, Practice and Research. (in press)

Rosenblum, Sidney--Developmental aspects of humor.
Learning and Behavior Problems in Children and Youth. Text with B. Ruebush.


6. Activities in learned and professional societies.

Benedetti, David T.--Attended annual meeting, Western Association of Graduate Schools, March 6-8, 1977, Albuquerque.
Attended annual meeting, Rocky Mountain Psychological Association, May 11-14, Albuquerque.

Conrad, Carol--Attendance at conference on Metaphor and Thought at University of Illinois in Urbana-Champaign, September 26-29, 1977.
6. Activities in learned and professional societies


Liaison Member, Education and Training Board, American Psychological Association, 1977-79.

Attended meeting of the Executive Board, National Council of Graduate Departments, and Executive Staff, APA, Washington, D.C., Jan. 1977.

Attended meetings of the Rocky Mountain Psychological Association, Albuquerque, May 1977. Presented papers: Memory for bizarre information (with Hertel), Theoretical interpretations of the repetition-lag effect in memory (with Tyler), Test effects in cued recall following varied or constant input (with McCallum).

Attended meetings of the Southwestern Psychological Association, Fort Worth, Texas, April 1977. Discussant on panel on Human Memory.

Attended meetings of the APA and the National Council of Graduate Departments of Psychology, San Francisco, Sept. 1977.

Attended meetings of the Psychonomics Society and the Executive Board of the National Council of Graduate Departments of Psychology, Washington, D.C., Nov. 1977.

Attended meetings of Department Chairs, Southeastern Psychological Association, Atlanta, Dec. 1978.

Feeney, Dennis M.--Mathematical prediction of human post-traumatic epilepsy. Paper presented at Society for Neuroscience, Anaheim, California, Nov. 1977. (with A. E. Walker)

Ferraro, Douglas P.--Secretary, Sigma Xi.

Program chairman, psychology section, American Association for the Advancement of Science meetings.

Attended meetings of the Southwestern Psychological Association; Rocky Mountain Psychological Association; Southwestern Educational Research Association; Congreso Mexicano de Analysis de la Conducta; Behavior Pharmacology Society.

Papers read:

Behavioral tolerance and reinforcement loss, SWPA.
Transfer of response sequences in monkeys, RMPA.
Invited address: Stimulus control of drugs, Congreso Mexicano de Analysis de la Conducta
Invited address: Behavioral tolerance, Behavior Pharmacology Society.


At Santa Fe, NM.
6. Activities in learned and professional societies


Dominance relationships between early socially isolated rhesus monkeys (Macaca mulatta). Presented at the inaugural meeting of the American Society of Primatologists, Seattle, April, 1977.


Attended Society of Experimental Psychologists and Rocky Mountain Psychological Association meetings.


Harris, Richard J.--Elected president, Southwestern Division of Society for Multivariate Experimental Psychology, for 1977-78.


Recent developments in canonical correlation. Invited paper, SWPA, Fort Worth, Texas, April 21, 1977.

Elected to membership in New Mexico Psychological Association.

Hodge, Gordon K.--Chaired a section of RMPA.


Founded New Mexico Society for Clinical & Experimental Hypnosis, Nov., 1977. This is a professional forum for sharing research development & ideas, clinical cases, and advancing training in the professional use of hypnosis by physicians, psychologists, and dentists. Over 50 professionals & graduate students attended our first meeting. We hope to affiliate with the National Society of the same name.
6. Activities in learned and professional societies.

Katz, Norman W.--(cont.)
Proposal for workshop in "A Skill Model of Hypnosis". Accepted for California State Psychological Convention, Jan., 1978.
Co-led workshop on "Hypnosis & Dentistry" for New Mexico Academy of Dentistry, April, 1977. (with Dr. J. Chaves)
Play therapy, paper presented at Grand Rounds, Department of Pediatrics, UNM Medical School, Jan. 1977.

Koenig, Karl--Committees joined, "Continuing Education" AABT.

Logan, Frank A.--Assumed role of President, Division of Experimental Psychology, American Psychological Association. (APA)
Member, Council of Representatives, APA
Executive Committee, Southwestern Psychological Association (SWPA)
Symposium: Current trends in learning theory. SWPA.

Miller, William R.--Meetings attended:
Association for Advancement of Behavior Therapy, Dec., 1977, Atlanta.
American Association for the Advancement of Science, Feb. 1977, Denver.
NATO International Conference on Behavioral Approaches to Alcoholism, August, 1977, Bergen, Norway.
RMPA, May, 1977, Albuquerque. Chaired paper sessions on "Training Therapeutic Skill" and "Treatment Outcome Research"

Papers presented:
Behavioral assessment and treatment of problem drinkers, workshop at AABT
Controlled drinking as a goal in the treatment of problem drinkers: Outcome after three years and three studies. (AAAS)
Self-control training for problem drinkers with a goal of controlled drinking: Results and reflections after four treatment outcome studies. (NATO)

Norman, Ralph D.--Treasurer and Membership Chairman, NMPA.
Developmental Sex Differences in Arithmetic-Mathematics Attitudes.
Anti-feminism and the negative imperative in the male, paper read at APA, San Francisco, August, 1977.


Parsons, Joseph A.--Invited address: Cognition is behavior, presented at the Annual Meetings of the Midwest Association of Behavior Analysis, Chicago, May 1977.

Member of Program Committee for INS, Feb. 1977.
Lecturer for Practical Clinical Neurology Seminar, Nov. 1977.
6. **Activities in learned and professional societies.**

Roll, Samuel--Attendance at several professional meetings in New Mexico and in Mexico.
Invited examiner for New Mexico Board of Psychological Examiners.

Workshop. Effective communicating with parents of head start children, Bernalillo County Head Start, August 1977.

Ruebush, Britton K.--Factors Correlated with Return or Non-return of Clients Following the Initial Evaluation. Paper read at the 1977 Annual Meeting, RMFA.
Attended Annual Meeting, Psychiatric Outpatient Centers of America, New Orleans.

7. **Other professional activities.**

Benedetti, David T.--Reviewed, with J.M. Rhodes, Publisher's manuscript of book on psychology of adjustment, April 1977.


Ellis, Henry C.--Regular Journal Editing:
Perception and Psychophysics, 1971-
Psychological Reports, 1963-
Perceptual and Motor Skills, 1963-
Journal of Experimental Psychology: Human Learning and Memory, 1974-76
Journal of Experimental Psychology, 1967-74
Consultant, Brooks-Cole Publishers
Consultant, Public Defender of New Mexico
Colloquium, University of Alabama, Dec. 1977
Consultant, Oxford University Press
Consultant, Allyn & Bacon

Ferraro, Douglas P.--Reviewer:
National Research Council
National Institute on Drug Abuse
Canadian Directorate on the Non-medical Use of Drugs
Psychopharmacologia
Pharmacology, Biochemistry and Behavior
Also served as occasional reviewer for National Science Foundation, Journal of Experimental Psychology, Animal Learning and Behavior, Journal of Consulting and Clinical Psychology.
Consultant: National Institute on Drug Abuse; Professional Standards Review Organization; Navajo Teacher Education Development Project; Bureau of Indian Affairs; Expert witness in several trial cases.
7. Other professional activities

Friden, Thomas F.--Member of the Executive Committee, VA Cooperative study on aphasia.
Attended meeting in Madison, Wisconsin in August.
Consultant to the Albuquerque Veterans Hospital.

Gluck, John F.--Animal Behavior and Zoo Management (10 lectures to Staff of Rio Grande Zoo, Albuquerque, N.M.)

Goetz, Therese--Editorial Consultant: Journal of Experimental Social Psychology
Consultant (periodic): Introspect (Communication/management)

Harnick, Frances--Faculty advisory board of Esperanza School.
Consultant: Lamaze Child Bearing Classes.

Refereed textbook manuscripts for Brooks/Cole and Addison-Wesley.
Report to court on minority group reactions to police harrassment (see 1976 annual supplement) led to overturn of conviction in Charles Brown case, order for retrial.

Hodge, Gordon K.--Refereed a physiological psychology text for Mosby, Inc.
Refereed a paper submitted to the journal Pharmacology, Biochemistry, and Behavior.

Katz, Norman W.--Appointed consultant to psychology service, Veterans Administration Hospital, Albuquerque, NM.
Workshop in Basic Clinical Hypnosis, Family Practice Clinic, UNM Medical School.
Presentation to U.S. Rural Physician Program, Oct. 1977 on Relaxation skills for patient management.

Miller, William R.--Speaking engagements: Indian Health Service; Department of Psychiatry, Grand Rounds; Religious Awareness Week, UNM; Civitans; Albuquerque Childbirth Association.
Communications skills workshops: New Mexico Hospital Association; Senior high youth retreat, Presbytery of Santa Fe, United Presbyterian Church.
7. Other professional activities

Miller, William R.---(cont.)

Editorial consultancies:
- Journal of Consulting and Clinical Psychology
- Canadian Journal of Behavioral Science
- Mayfield Publishing Company
- Prentice-Hall, Inc.
- Several TV appearances regarding Alcohol Research and Treatment Project.
- Advisory Board Member, Association of Drinkwatchers.

Parsons, Joseph A.---Consultant: Review of text manuscript for Prentice-Hall entitled Studying Children by Dr. Vasta.
- Review of text manuscript for Prentice-Hall entitled Child Development I: A Systematic and Empirical Theory by Dr. Bijou.

Rhodes, John M.---Consultant for APS on Neuropsychological Problems; Consultant for Laguna Pueblo Special Education Programs (Staffing, May, 1977)

Roll, Samuel---Invited lectures at Universidad Regimontano in Monterrey, Mexico and at Universidad Autonoma in Saltio, Mexico.
- Consultant: Public Defender of New Mexico; Family Resource Center of New Mexico.
- Workshop in the use of the Rorschach in Monterrey, Mexico.
- Expert witness in criminal and custody cases.

- Mental Health Consultant, Bernalillo County Head Start.
- Preceptor, School of Medicine, UNM (Also Clinical Associate, Psychiatry)
- Chairman, New Mexico State Board of Psychologist Examiners.
- Dissertation director: Doris C. Sahd, Ph.D., Howard G. Shore, Ph.D.

Ruebush, Britton K.---Member, Board of Directors, Psychiatric Out-patient Centers of America (P.O.C.A.)
- Family Therapy. J. Raynak, M.D., & J. Heard, Ph.D. Sept. 1977

8. Non-teaching University service

Benedetti, David T.---Associate Dean, Graduate School, 2/3 time (2 mos. full-time summer)
- Member, University Graduate Committee (Spring, 1977); A & S Graduate Committee (Fall, 1977); Chairman, University Graduate Committee on Fellowships; Academic Calendar Advisory Committee.
- Member, four department committees.

Conrad, Carol---UNM computer-use committee; A & S Human Subjects Committee; Dept. committees: six, chairing one.
8. Non-teaching University service (cont.)

Delaney, Harold D.--Faculty advisor, Lobo Inter-Varsity Christian Fellowship; Member, Curricula Committee; Participant, Orientation Program of the Dean of Students Office; Presidential Scholar Advisor; Dept. Committees: six.

Ellis, Henry C.--Department chairman.
Committees: Faculty Senate--Executive Committee, Operations Committee; Equal Employment Opportunity; University Retirement and Benefits Committee; University Bilingual Committee; University Gerontology Committee;
Departmental committees: seven
Recruiting Trip (Women and minorities), Nov. 1977.
Chaired Dissertation Committees--Charles Grah, Brian Babbitt, Steve Hayward.
Chaired Theses Committees--Paula Hertel, Sherman Tyler, Marvin McCallum
Directed Honors Project--Sharon Green.

Feeney, Dennis M.--Served on 6 department committees and chaired 2.

Ferraro, Douglas P.--Chairman, Research Policy Committee (Jan.-Aug.); Vice President's Council on Cost Sharing; Subcommittees on Research Administration and Interdisciplinary Research; Department committees: six, chaired three.

Friden, Thomas P--Chairman, Research Allocations Committee; Ex officio member of the Research Policy Committee; Member, Research Administration Subcommittee; Member, Research Budget Subcommittee; Chairman, Graduate Admissions Committee;
Chairman, ad hoc Faculty Search Committee; Departmental committees: seven, chairing two.

Gluck, John P.--Assistant Chairman, Dept. of Psychology (1/77 to 5/77);
Acting Chairman, Dept. of Psychology (6/77 to 7/77); Director, Dept. of Psychology Animal Facility (1/77-8/77).
Direction of theses and dissertations:

Goetz, Therese E.--Dept. of Psychology committees: four

Grice, G. Robert--Department of Psychology committees: six

Harnick, Frances--Faculty Ethics Committee; Faculty Library Committee;
Dept. of Psychology committees: six, chaired two

Harris, Richard J.--Guest lectured in Psych. 650 (twice) on social psych. implications for and use of multivariate statistics in program evaluation; in Psych 202 on methodological problems associated with use of masses of available data in Anglo/Chicano study; and in Psych 371 on mathematical models in social psychology.
Consulted with Dr. Dennis Feeney on math model for delayed onset of epileptic complications following head injury.
Department of Psychology committees: six, chaired two
8. Non-teaching University service

Hodge, Gordon K.--Dept. of Psychology committees, seven, chaired one


Katz, Norman--Faculty Advisor for Presidential Scholar Program; Dept. of Psychology committees: five.

Koenig, Karl--Dept. of Psychiatry: Exec. Committee, Management Committee

Logan, Frank A.--Dept. of Psychology committees: eight. Director, NIMH Training Grant, Experimental Psychology of Learning (Spring). A & S Committees: Graduate committee and Promotion Committee University committee: Research Policy Committee

Miller, William R.--Ad Hoc Committee on Arts Therapy; Departmental committees: four. University Committee on Human Subjects Thesis and Dissertation Committees:
- Thomas Boyd (M.A.; chair)
- Katheryn Spiering (Ph.D)
- Michael Rodriguez (M.A.; chair)
- Michael Schmidt (Ph.D.; chair)
- Daniel Matthews (Ph.D.)

Norman, Ralph--Member, A & S Health Sciences Committee; Dept. of Psychology committees: six

Padilla, Eligio R.--Dept. of Psychology committees: five

Parsons, Joseph A.--Dept. coordinator for High School-University activities. Member of Institute for Applied Research Services Advisory Committee; Dept. of Psychology committees: seven, chaired two

Rhodes, John M.--Member, Academic Senate; Member, Graduate Programs & Standards for Senate; Member, Graduate Committee (April, 1977); Member, Advisory Committee for Accreditation. Dept. of Psychology committees: six.


Rosenblum, Sidney--Assistant Chairman, Department of Psychology (1977-78) Director of Clinical Training. Ad Hoc Committee to Evaluate Graduate Offerings in Department of Music. Faculty-Staff Coordinator, "Faculty Follies," 1977. Dept. of Psychology committees: seven, chaired one
8. **Non-teaching University service (cont.)**

Ruebush, Britton K.--Director, Albuquerque Child Guidance Center.
Dept. of Psychiatry: Executive committee; Children's committee;
Children's Psychiatric Center Program Planning Committee;
Children's Psychiatric Center Advisory Committee
Dept. of Psychology: four committees

9. **Public service**

Delaney, Harold D.--T.V. appearance for World Vision, an emergency relief and child care agency.
Discussant, film series, Grace Church.

Ellis, Henry C.--University Swim Team, Sponsor.
Little League Soccer, Sponsor

Feeney, Dennis M.--Chairman, Board of Directors, for Career Services for the Handicapped, Inc.

Ferraro, Douglas F.--Presbyterian Hospital Heart Fund.
Board of Directors, Villa de Paz.
Advisor, National Organization for the Reform of Marihuana Laws.

Gluck, John P.--Health advisory panel, Rio Grande Zoo, Albuquerque, NM.

Goetz, Therese E.--Advisor to the Youth Ministry, Church of the Anunciation.

Harris, Richard J.--Publicity chairman and course surveyor, Albuquerque Roadrunners Club

Katz, Norman--Volunteer consultant to Albuquerque Child Guidance Center.
Speaker for UNM Speakers' Bureau twice this last semester.

Koenig, Karl--Vice Chair, Board of Trustees, Sandia Preparatory School.
Board Member, "Alternatives"

Miller, William R.--Educational services to St. Andrew United Presbyterian Church: Director of Adult Education program; taught 7 week class on alcoholism and problem drinking; taught 7 week class on communication skills.
Music: guitarist and soloist for worship services, St. Andrew's; guitarist and soloist for heritage worship service, sponsored by New Mexico Historical Society, Jemez National Monument; arranger, guitarist, and soloist for choral presentation of Godspell, St. Andrew's

Parsons, Joseph A.--Liaison for High School Students interested in Psychology. Talks to psychology classes in area high schools.

Rhodes, John M.--Member, Executive Board at Albuquerque Association for Children with Learning Disabilities.

Roll, Samuel--Consultant and lectures given as a public service to Child Abuse Committee; Albuquerque Public Schools, State of Nuevo Leon, Mexico and other agencies.
9. Public service

Rosenblum, Sidney—Arts Judaica Committee, Congregation B'nai Israel

Ruebush, Britton K.—Trustee, Board of Trustees, Albuquerque Academy; Chairman, Education Comm. Chairman, Ad Hoc Committee on Community Relations. Member, United Way Executives Committee

10. Personal information

Ferraro, Douglas P.—Married to Sandra Jean Odell

Goetz, Therese E.—Married to Ronald J. Lipinski on July 30, 1977

SUMMER SESSION, 1977.

Chairman Pedro R. David taught criminology, deviance, and juvenile delinquency in his successful six-week Criminology Seminar in Madrid, Spain. The Spanish government allocated $15,000 for the seminar and also provided free transportation, lodging, and food for the nine students attending from the New Mexico area. Days were spent in class work and evenings were spent visiting various penal institutions in the area. The Spanish government gifted each participating student with 50 volumes of Spanish literature.

Associate Professor Gilbert Merkx was Director of the very effective Summer Program in Guadalajara, Mexico. He taught a contemporary social theory course and an urbanization course with a total of eight students from the United States attending this seminar.

Assistant Professor Paul Sutton was one of three sociologists from a total of twenty behavioral scientists in the nation participating in a six-week institute regarding freedom and causality of human behavior, funded by the National Endowment of the Humanities to the Center for Advanced Study in Behavioral Sciences at Stanford.

On June 10, 1977 the Sociology Department Summer Session had a total of 434 students enrolled.

TENURE

Associate Professor Dodd Bogart and Assistant Professor Arthur St. George were given tenure after review by the Provost at the beginning of the Fall term.
REPLACEMENT

As replacement for Professor Jill McKelvy in Social Welfare, Professor Diana Warner was hired for the academic year, nine-month basis. According to Equal Employment Opportunity Rules, a search was conducted for a professor to fill the social welfare slot on a three-year term. Mr. Richard Coughlin was selected for the position and will join our faculty in the Fall of 1978.

SABBATICAL

Professor Richard F. Tomasson spent the January 14 - April 12 period of his sabbatical in Cuernavaca, Mexico working on his book Iceland: The First New Nation. The completed manuscript will be sent later this summer to the University of Minnesota Press. He also wrote a 15 page piece on the political parties of Iceland for the European volume of the Encyclopedia of the World's Political Parties.

Professor Patrick McNamara, also on Spring 1978 sabbatical, has been working on several articles, three already submitted for publication and three in progress at this time.

VISITING PROFESSOR

In August of 1977 arrangements were completed for Visiting Professor Frank Westie of Indiana University, Bloomington, Indiana to spend Spring, 1978 semester. Professor Westie is one of the renowned scholars in the area of prejudice and attitude research. He taught courses for us on race and ethnic relations and was adviser on our National Institute of Mental Health program on deviance.
CURRICULUM

Subsequent revisions of our undergraduate and graduate offerings were made in the Department during the academic year. As a result of this a new copy of the revised curriculum will be offered in the Fall of 1978 that will respond to the needs of our students. This was accomplished by our faculty analyzing the entire set of undergraduate offerings. Older courses were dropped, many were modified, and new courses added. The undergraduate course offerings were grouped into five "fields of concentration" best representing faculty academic strengths and student interests. These provide for a major in sociology with 18 hours of required core studies in research methods, statistics and theory. In addition the student selects a field of concentration of some 18 additional hours in one of the following: criminal justice, sociology of Latin America, social psychology, social welfare, or general sociology (preparing for graduate work). The revised curriculum is developed around these general concentrations.

At the graduate level, the Department continues to offer the M.A. degree. Over the last ten years, a total of 40 such degrees have been awarded. Of perhaps greater interest is the new Ph.D. program. Approved by the University and the BEP in December 16, 1975, students have entered the program officially for the first time in the Fall of 1977. Currently 18 students are enrolled for post-M.A. work leading to the doctorate. Six areas of Ph.D.-level specialization (plus theory and research methods) represent the major strengths of the faculty in the new graduate curriculum. This new development of advanced graduate work helps build faculty strength and intellectual resources that also upgrade the undergraduate program. We have a total of 28 students enrolled in our graduate program (18 Ph.D. students and 10 M.A. students. Our Graduate Assistantships for the academic
year 1978-79 were awarded to Mary Stinebaugh, Brigitte Goldstein, Sallie Yeaf, and Twila Turpen. Students receiving M.A.s this year were Sandra Wehr, Carol Higgins, and David Bealnear, with honors.

GRADUATE PROGRAM

The proposal for the establishment of the Ph.D. in Criminology has been funded by the Center for Crime and Delinquency of National Institute of Mental Health, Washington, DC for five years and five students have been admitted into the program. The proposed doctoral training is focused on three related objectives: The first is to make academic training in this disciplinary area more oriented toward addressing the needs of the population of this state and region with respect to problems of crime, delinquency and other forms of deviant behavior. In effect, it represents an attempt to improve the capacity of New Mexico to cope with its increasing problems of deviance by offering doctoral training that will permit its recipients to serve in non-academic roles in the area as well as in more traditional academic roles.

The second objective is to design and implement two unique types of courses. The first type will better equip those who receive training to understand and utilize in research planning the distinctive patterns of social organization and culture that characterize the local minority populations of this region (Chicano, Hispano, and various Native American groups.

The third focus represents an attempt to provide graduate educational opportunity here in New Mexico for individuals in minority categories. Large segments of the New Mexico population are of Spanish cultural origin or are Native Americans. These people are currently considerably under-represented in professional research, teaching, and higher
level administrative roles in all parts of the United States. This is clearly the case in New Mexico. Because no doctoral program in Sociology existed in the state until recently, little opportunity was present for such persons to pursue a Ph.D. in any aspect of this discipline.

During the first year of funding material was prepared to teach two new courses: Sociology of Deviance Among Native American People, and Sociology of Deviance Among Mexican Americans, taught respectively by Professor Melvin L. DeFleur and Pedro R. David. Additional material that can be counted for the teaching will be videotapes of oral histories and bibliographies of various aspects of these cultures.

Of the five assistantships, four of them were given to women members of minorities.

FELLOWSHIPS AND AWARDS

In addition to the five fellowships of the National Institute of Mental Health program, the American Sociological Association has funded two more fellowships in our Department that were awarded to graduate student members of minorities. These fellowships were given as a result of arrangements made by Chairman David and Professor DeFleur at ASA headquarters in Washington, D. C. at the beginning of the Fall 1977 semester.

The Chairman for the Committee for the Christopher A. W. McGee Memorial Award announced that this award was given to two students this year. Rich Rogers of Albuquerque and Rhys Williams of Las Vegas, New Mexico were the recipients of $260 each.

RESEARCH

A number of the faculty are conducting significant research in which students are involved. Additional proposals are under preparation to obtain research funding. The results of sociological investigation are being published regularly in sociological journals.
ENROLLMENT

We subsequently increased our enrollments (2587 as of August 19, 1977) this year... an increase from the previous year of approximately 350 students. Despite increasing enrollments, the Sociology Department was at the bottom of the list of percentages in grading for lower division courses: Percent A+B semester II 76-77 23.2, semester I, 77-78 25.4. Only one other department was lower than ours.

FUTURE PLANS

During the late spring and early summer, meetings were held with Pat Richards, representative from the U. Architects' Office, to discuss remodeling of Building 912 (Old State Lab Bldg.) which, hopefully, would house the Sociology Department in the near future.
Faculty Publications

Books, articles and research monographs

Bogart, Dodd H.  "Status Threat and Group Dogmatism"
"Social Power and Liberalism-Conservatism: The Ideological Consequences of Group Position in an Inter-Group Hierarchy."

David, Pedro R.  Estructura Social y Criminologica, University of Zulia, Maracaibo, Venezuela, 1978. (Book)

With Everette Denis, Understanding Mass Communication (Boston: Houghton-Mifflin Co. will be published in 1979).

A summary of the above article appeared in Human Behavior August, 1977.

Review Symposium on Explorations in General Theory in Social Science, 2 Vols., Essays in Honor of Talcott Parsons—to appear in Sociology and Social Research


Analysis of religious values in Quality of Life survey from the University of Michigan. Submitted for publication. Co-Author: Arthur St. George.

Analysis of religious defection and religious change of affiliation. Co-Researcher: Arthur St. George. Article currently being written to be submitted in June of this year.

Theoretical articles in the sociology of religion. One article already submitted, another in progress.


(1) Completed editing Volume I of Comparative Studies in Sociology, and wrote critical introduction on the problems of comparative sociology. (2) Began editing Volume II of CSS.

Valdes, Nelson

Completed Dissertation has been provisionally accepted for publication subject to some revisions by The University of Texas Press.


 Warner, Diana M.


Woodhouse, Charles E.


Completed draft of an article, "Revolutionary Optimism and the Practice of Revolution: The Jewish Bund in 1905" with Henry J. Tobias, to be submitted for publication.
Book Reviews

Gehlen, Frieda L.  
Served as a manuscript reviewer for Journal of Politics and for Sociology and Social Research. Also reviewed a book manuscript on the sociology of education for Allyn and Bacon, Inc.

Reeco, George A.  

Meeh, Gilbert II.  

Harker, Gilbert W.  
"Social Consequences of Modernization in Communist Societies," ed. by Mark G. Field, in Contemporary Sociology, Forthcoming. (Book Review)


St. George, Arthur  
Numerous book and film reviews

Tomasson, Richard F.  


Papers Read at Professional Meetings

David, Pedro R.  

United Nations meeting of Experts in Criminal Justice, Reno, Nevada, 1977

DeFleur, Melvin L.  
Organized 130 Luncheon Roundtable Discussions for the American Sociological Association annual convention, 1978

Symposium paper delivered (and in press): "The Study of Mass Communication: An Overview" Simposio Nacional de Comunicacion Mexico City, April 1978. (I was invited by the Mexican Government and U.S. State Department to be a participant)

Gehlen, Frieda L.  
"Citizen Reactions to a Strike by Police" presented at the Southwestern Social Science Meetings, Dallas, April, 1977
Papers Read at Professional Meetings cont.

Huaco, George A.
Attended and was a discussant for a panel on "Active Imagination". Meeting of Inter-Regional Association of Jungian Analysts—Chicago. "On Active Imagination" paper and discussant, Chicago, 1977 meetings of The Inter-Regional Association of Jungian Analysts.

Meier, Harold C.
Paper read, Annual Meetings of the Southwestern Sociological Association, Dallas, Texas, March 31, 1977. (with Suzanne Vaughan), "Faculty Marginality and Radical Academic Ideology."

Sutton, Paul


Tomassen, Richard F.

Warner, Diana N.

Research and Scholarship in Progress

Bogart, Dodd H.
Monograph in preparation, The Threat from Species Of: An Introduction to Organizational Ecology

"Intelligence Functions in Systems" (in preparation)

"The Dynamics of Changing Roles" (with Marion Dickens) (in preparation)

"The Role of Organizations in Social Change" (with Charles Woodhouse) (new project initiated)

David, Pedro R.

Defleur, Melvin L.
Received Doctoral Training Grant from National Institute of Mental Health (five-year grant of $360,000 first year - $46,000).
Research and Scholarship in Progress cont.

Gehlen, Frieda L.  
A study of UVM faculty members' use of and attitudes toward the retirement and insurance program was undertaken. An interim report, 31 pages, was sent to the university administration and the Benefits Committee; a research note on different perceptions of TV characters by males and females is underway.

McNamara, Patrick H.  
Research into utilization of social science findings by the legal profession.
A three-year survey of seniors at St. Pius High School, a study of change in religious values
Also, analysis of public housing in Albuquerque, work continuing toward publication.

Merks, Gilbert W.
In progress: study of economic policy in Argentina since 1955, book on the sociology of Latin America.

St. George, Arthur
Text Manuscript in progress, Advanced Research Methods in Sociology.

Research Grant: In preparation - grant proposal to investigate sociological aspects of stress and stress-reduction techniques as applied to police officers—to be submitted to LEAA.

Sutton, Paul
Post-treatment Evaluation of 'Children in Need of Supervision Project of the Second Judicial District, State of New Mexico. (Funded by the Law Enforcement Assistance Administration, Department of Justice) Completed January, 1978.
Simulation research involving judicial discretion. This investigation currently funded by the Research Allocations Committee.

Pretrial Release on Recognizance Program for Bernalillo County Office of Corrections/Retention. Design and evaluation of program which, if successful, will provide the model for state-wide emulation at both the misdemeanor and felony levels.

Humanities seminar and motion picture documentary/discussion of "The Dilemma of Incarceration." This project funded by the New Mexico Humanities Council.
Other Professional Activities and Achievements

David, Pedro R.
Honorary Member, Spanish Institute for Youth, Madrid, Spain, 1977.
Chairman, Latin American Task Force, UNM, 1977-present
Lecturer, Foreign Relations Committee, 1977-present
New Mexico Council of Crime and Delinquency, 1977-present
President, Inter-Iberoamerican Society of Social Sciences, 1977-present.
Member of the Advisory Board of Journal of Criminal Justice
Lecturer of the Organization of American States Children's Institute
Member, United Nations

DeFleur, Melvin L.
Appeared on the program "Television, Violence, and Children" to assess current state of academic research on the topic, Tuesday, April 12, 7:30-8:30 p.m.
Organized and chaired Plenary Session on "Employment in Sociology," Atlanta, Georgia. March 31, 1977 by request of President of Southern Sociological Society.
Elected to Freshman Honorary Alpha Sigma Epsilon for excellence of teaching.
Chair, Departemental Curriculum Committee; member Arts and Sciences Tenure Committee.
Organized 130 Luncheon Roundtable Discussions for the American Sociological Association annual convention 1978.
Other Professional Activities and Achievements cont.

Valdes, Nelson


Chairperson of Panel on Cuba and Angola; LASA and ASA meeting, Houston, Texas, November 5, 1977.


Board of Directors, Institute of Cuban Studies, Washington D.C.

Editorial board of journal Cuban Studies, University of Pittsburgh.

Editor of section on Caribbean Sociology for the Handbook of Latin American Studies, Hispanic Foundation, Library of Congress.

Was invited by the Cuban Instituto Cubano de Amistad con los Pueblos to visit the country for 21 days: (from December 24, 1977 to January 14, 1978).

Received a Summer Research Stipend from University of New Mexico.

Warner, Diana M.


Woodhouse, Charles E.

Undergraduate advisor, Department of Sociology; member, Graduate Committee and member, Curriculum Committee, Department of Sociology.

Appointed to the Academic Advisory Committee for the Bund Archives of the Jewish Labor Movement, New York, NY.
Other Professional Activities and Achievements cont.

Gehlen, Frieda L. University Senate (Chair of the Faculty Welfare Committee for spring, 1977); elected to Academic Freedom and Tenure Committee; Public Administration Policy Committee; Arts and Sciences Promotion Review Committee. Active in educational activities of St. Luke’s Lutheran Church.

Buaco, George A. Chairman, Graduate Committee, Sociology Department; Graduate Advisor, Sociology Department; Member of Arts and Sciences Graduate Committee; also on Student Standards Committee.


Consultant to Albuquerque City Planning Department: design and execution of survey of low-income public housing residents Spring and Summer, 1977.

Consultant to Albuquerque City Planning Department: design and execution of research on housing needs of the handicapped in the metropolitan area. Resulted in publication (cf. under Research Monographs).


Admissions And Registration Committee


Consultant to Harper and Row, Prentice Hall, Allyn and Bacon, and Scott Foresman; Consultant to Shell Oil Company and Gulf Oil Company on political violence study; Journal referee: The American Sociologist. Panelist: New Mexico Humanities Council on Panama Canal Treaties program.

Vice-President, Faculty Senate, Spring term, 1977; President, Faculty Senate, Fall term, 1977; Member, Department of Sociology, Curriculum Committee.

Participant and consultant on New Mexico Humanities Council project on illegal aliens.

St. George, Arthur. Los Companos Teaching Excellence Award.
Other Professional Activities and Achievements cont.

Sutton, Paul

"Presumptive Sentencing: Determinacy and Beyond" position paper delivered to the New Mexico Correctional Association meeting, Albuquerque, June 10, 1977.


consultant for U.S. Magistrate court in Albuquerque regarding design and feasibility of project to identify offense and offender related predictions of bail flight.

consultant with the Governor's Council on Criminal Justice Planning regarding validity of state department of corrections' assessment of fiscal impact of Senate Bill 18

Elected to membership in the New Mexico Council on Crime and Delinquency.

served as chairperson, community corrections subcommittee on ROR, diversion, and citation systems, NMCCD.

served on departmental curriculum committee which was charged with the comprehensive evaluation and revision of departmental offerings at both the undergraduate and graduate levels.

Tomasson, Richard P.

Elected national president of the Society for the Advancement of Scandinavian Study for 1977-79. Member, Committee on World Sociology, American Sociological Association Panelists, National Endowment for the Humanities: Editor, Comparative Studies in Sociology; Associate Editor, Journal of Military and Political Sociology.


Member, A & S Programs Committee Prepared position paper on the social welfare concentration for Sociology Department.

Member of New Mexico Humanities Council Committee to do a TV program on "The Welfare Mess."


The Annual Report of the Department of Speech Communication
July 1, 1977 - June 30, 1978
R. Wayne Pace - Chairman

I. GENERAL DEPARTMENTAL INFORMATION AND ACCOMPLISHMENTS

A. Status of the Department ..................... 2 - 7

B. Faculty, Staff, and Assistants ............... 7 - 8

C. Faculty Accomplishments
   January 1 - December 31, 1977 ............. 9 - 17
   1. Advanced Study
   2. Sabbaticals, Leaves of Absence, etc.
   3. New Scholastic Honors
   4. Publications
   5. Other Research Projects or Creative Works in Progress
   6. Activities in Learned and Professional Societies
   7. Other Professional Activities
   8. Non-teaching University Service
   9. Public Service
  10. Personal Information

II. RECOMMENDATIONS AND PLANS FOR THE FUTURE .......... 18

III. APPENDICES

A. Telecommunication Studies .......... 20-77

B. University Forensics ............... 78-86

C. Proclamations for Communication Week .... 88-90
I. General Departmental Information and Accomplishments

A. Status of the Department

This represents a report of the sixth year in which the Department of Speech Communication has existed in its present form. The Department has four content areas that carry out its instructional and research objectives.

Areas

1. Interpersonal Communication Area -- Three faculty have full-time assignments in this area (Civikly, Plax, Rosenfeld) and three others teach occasional courses in interpersonal communication (DeStephen, Feingold, Pace). The curriculum is strong and student enrollments are some of the heaviest in the department. Most courses in the area over-enroll, with Nonverbal Communication reporting initial requests exceeding 400%, Persuasive Communication nearing 300%, and Small Group Communication at approximately 200% enrollment capacity.

2. Organizational Communication Area -- Three faculty have part-time assignments in this area (Feingold, Pace and Zannes). The curriculum is one of the very best in the country, including courses from lower-division through the graduate level. New Mexico is one of five universities cited by the International Communication Association as offering a course in organizational communication auditing that is acceptable for meeting the knowledge criterion for audit credentialing. Course enrollments are strong, but the lack of faculty in the area has made it extremely
difficult to offer the curriculum and respond to student needs. The Institute for Organizational Communication is actively sponsoring programs in the profession and community.

3. **Rhetorical Communication Area** -- One faculty member has a full time assignment in this area (Jensen) and two faculty members have part time assignments (DeStephen and Zannes). Although the curriculum is undergoing analysis at this time, the program is substantial and has strong enrollments in Argumentation, Public Speaking, and Southwest Rhetoric. Under the guidance of R. Jensen, both undergraduate and graduate students have been engaged in research in Southwest Rhetoric and presented papers at meetings of the Western Speech Communication Association in the Fall of 1977. Southwest Rhetoric is a natural focus for the Department and promises to make significant contributions to an understanding of the State and region. An Institute for Southwest Rhetoric should be created soon.

4. **Telemediated Communication Area** -- Two faculty have full time assignments in this area (Corcoran, who is replacing Gerace while he is on leave to Bolivia as part of a development project, and Schrag) and one has a part time assignment (Zannes). The curriculum is undergoing some analysis at this time and some recommendations for modifications may develop in the fall. Nevertheless, the concept of telemediated communication is sound and finds widespread application not only in broadcasting but also in business, government and industry. Much of Fall semester was devoted to writing a position paper on "telecommunication studies at the University of New Mexico" in response to deliberations by
the ad hoc committee on Radio-Television-Film. The report summarizes the philosophy, curriculum, building needs, and includes copies of course syllabi, intern contacts, and advising sequences. A copy of the report is attached for the record.

Other Activities and Issues

5. University Forensics -- The Department sponsors a program of competitive debate and other speaking activities. Participation is open to all students on campus and represents an opportunity for them to engage in stimulating, intellectual competition. Forensics attracts top-quality students to the campus and provides intellectual challenge for articulate scholars. The report of Dr. DeStephen, Director of Forensics, is attached.

6. Communication Week -- The week of February 19-25, 1978, was proclaimed by William E. Davis, President of the University, David Pusk, Mayor of the City of Albuquerque, and Jerry Apodaca, Governor of the State of New Mexico, as Communication Week. A Proclamation was issued by each dignitary (see attachments) and the proclamations were framed and hung in the departmental area. In cooperation with the New Mexico Public Relations Society, Dr. Darrell Piersol, International Business Machines (IBM) executive in-residence at Pan American University, Edinburg, Texas, who has an earned doctorate in communication from Purdue University, and who has been President of the International Communication Association, was brought to campus to visit classes and speak at the annual Communication Luncheon of PRSA.

7. Research Appointments -- At one time or another throughout the academic year, faculty members have been on released time to
participate in funded projects. Dr. Estelle Zannes has been on a grant from the City of Albuquerque to assist in the creation of a Public Information Office and to supervise the development of a city information program. Dr. Lawrence Rosenfeld has been on a grant studying labeling theory and attitude change.

8. Grading Standards -- One year ago, the department was severely penalized for having high grading standards (awarding more A's and B's than C's, D's and F's) through the loss of a full faculty position. As faculty of the department had predicted, the overall ranking of the department in terms of departmental grade point average awarded moved from 19th (high grades) to 4th (low grades). Only three departments in the College awarded fewer A's and B's to students than did Speech Communication.

9. Television Laboratory -- Through an allocation of approximately $22,000 for video equipment, the department was able to replace much of its old and antiquated studio equipment. With the acquisition of some additional video equipment and remodeling of the studio area, the television laboratory should be in condition to provide services for students in a considerably improved manner over the past six years.

10. Student Enrollments -- During the past academic year, the department has enrolled approximately 1400 students each semester or 2800 students for the year. Of that number, the following have been majors in the Department:

Graduate Students . . . . . . . . . . . . . . . 32
Undergraduate Students (Total) . . . . . . . 80
College Arts & Sciences 58
University College 17
College of Education 1
School of Bus. & Adm. Sci. 4
11. **Faculty Committee Assignments** -- Throughout the year, departmental faculty have served on department, college, and university committees. Department committees appointed at the fall planning conference were as follows:

   **Undergraduate Committee:** Richard Jensen (Chair), Jean Civikly, and Dan DeStephen.

   **Graduate Committee:** Timothy Plax (Chair), Robert Schrag, and Estelle Zannes.

   **Placement Committee:** Paul Feingold (Chair), Farrel Corcoran, and Lawrence Rosenfeld.

In the College of Arts and Sciences, Estelle Zannes served on the Tenure and Promotion Committee, Timothy Plax served on the Graduate Committee and the Committee on Use of Human Subjects. Three faculty members served on University committees: R. Wayne Pace was Chair of the standing committee on Continuing Education; Robert Schrag served as a member of the Student Radio Board; and Dan DeStephen served on the committee on Scholarships, Prizes and Loans.

12. **Activity in Professional Associations** -- During the past year, several faculty members have been particularly involved in professional associations. R. Wayne Pace has served as First Vice President and chair of the Convention Committee and is currently President of the Western Speech Communication Association. Jean Civikly is currently Vice Chair of the Speech Communication Education Interest Group of the Western Speech Communication Association. Timothy Plax has served as Vice Chair and is currently Chair of the Behavioral Sciences Interest Group of the WSCA. Lawrence Rosenfeld was selected as Editor-elect of the *Western Journal of Speech Communication*, to become editor in
February of 1979. Jean Civikly completed a three-year term as a member of the Board of Directors of the International Communication Association. Jean Civikly has also served as President of the New Mexico Communication Association, with Estelle Zannes as Vice President; Zannes is currently President of the NMCA.

13. An Appreciation -- May Polivka, Departmental Secretary, deserves special recognition for her contribution to the department for the past several years. Throughout the past six years, she has been a steady influence on departmental relations and affairs. She has exercised calm judgment and dedicated service through turbulent times. The department owes a singular debt to her guidance and gentle management style.

B. Faculty, Staff, and Assistants

1. Faculty

R. Wayne Pace, Professor and Chairman Ph.D. Purdue
Organizational and Interpersonal Communication

Estelle Zannes, Associate Professor Ph.D. Case-Western
Rhetorical and Telemediated Communication Reserve

Lawrence B. Rosenfeld, Associate Professor Ph.D. Pennsylvania
Interpersonal Communication State

Jean M. Civikly, Associate Professor Ph.D. Florida State
Interpersonal Communication and Educational Methods

Timothy G. Plax, Associate Professor Ph.D. Southern
Interpersonal Communication and Research California
Methods

Paul C. Feingold, Assistant Professor Ph.D. Purdue
Organizational and Interpersonal Communication

Richard J. Jensen, Assistant Professor Ph.D. Indiana
Rhetorical Communication

Frank A. Gerace, Assistant Professor Ph.D. Texas
Telemediated Communication (on leave - Bolivia)

Dan E. DeStephen, Assistant Professor Ph.D. Utah
Rhetorical Communication and Forensics

Robert L. Schrag, Assistant Professor Ph.D. Wayne State
Telemediated Communication

Farrell Corcoran, Visiting Lecturer Ph.D. pending
Telemediated Communication Oregon
2. Part-time Faculty

Barbara Barsky, Lecturer II, Semester II
Interpersonal Communication
M.A. Hunter College

RoLayne DeStephen, Lecturer II, Semester II,
Public Speaking and Interpersonal
Communication.
Ph.D. pending
Univ. of Utah

3. Staff

May Polivka, Department Secretary

Cathy B. Retzlaff, Staff Secretary - July to December, 1977

Sharlan D. Thomas, Staff Secretary - December, 1977 to July, 1978

Richard Steinberg, Studio Technician - July to Sept. 10, 1977

4. Graduate Assistants

Martha Day 265 and 130 Assistant
Glenn Gabbard 101 Assistant; 221 Assistant, Semester I
Dayle Hardy Forensics Assistant
William Sayer 102 and 130 Assistant

Teaching Assistants
Farrell Udell 240 and 221
Gene D. Fowler 101 (Semester II)

Additionally, graduate students Libby Jacobus and Richard Quezada
assisted with 130, Public Speaking and Kathy Lyn Pitts assisted
with 444, Interviewing.

5. Work-Study Students

Debbie Herrera Forensics Secretary
Melvin Mays Telecom. Assistant (Semester I)

6. Faculty Appointments, Effective August, 1977

Farrel Corcoran Visiting Lecturer, Telecommunication,
re-appointed as Visiting Assistant Professor effective August, 1978.

7. Faculty Separations, Effective June 30, 1978

R. Wayne Pace, Professor and Chairman
Resigned to accept
position as Professor
of Communication at
Brigham Young University.
C. Faculty Accomplishments: January 1 - December 31, 1977

1. Advanced Study


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


Frank A. Gerace. On leave from Department of Speech Communication to LAPE (Latin American Projects in Education) of College of Education. Assigned as expert in Nonformal Education and Rural Radio to Proyecto de Desarrollo Educativo Rural I of the Government of Bolivia, South America.

R. Wayne Pace. Following the annual conference of the International Communication Association in Berlin, Germany, visited faculty in universities and research institutes in Denmark, Sweden, Norway, and Wales about research on seriality in human communication systems; gave seminars on communication theory and interpersonal communication at University of Wales, Cardiff. Travel and meetings occurred from May 22-June 20, 1977.


Estelle Zannes. Travel: United Kingdom, study of training methods for police. Taught several classes at police college.

3. New scholastic honors, fellowships, etc.

a. Jean M. Civikly. Promotion to Associate Professor rank with tenure.

b. Timothy G. Plax. Promotion to Associate Professor rank with tenure. Den's Award for work on College of Education Graduate Committee, 1976-77.
4. Publications

Jean M. Civikly

Daniel DeStephen
- Co-author: Karen Rasmussen.

Paul C. Feingold

Frank A. Gerace

Richard J. Jensen

R. Wayne Pace

Timothy G. Plax
Timothy G. Plax (cont'd)


Lawrence B. Rosenfeld


Robert L. Schrag

Review of Murphy, Robert D., Mass Communication and Human Interaction, in Communication Education. In press.

Estelle Zannes


5. Other research projects or creative work

Jean M. Civikly

Development of on-campus Intern Training Program, Department of Speech Communication.

Paul C. Feingold

"Communication Barriers and Union Organizations in Hospital Nursing Services"

"Students vs. Security Officers: Two Views of the Role of the School Security Officer."

Frank A. Gerace

Patterns of Media Use, Organizational Membership, Individual Modernity, and Competence among Campesinos of the Cochabamba Valley.
Richard J. Jensen
Completed research on "Southwest Rhetoric," Faculty Resource Allocations Committee Grant.

R. Wayne Pace
Manuscript on techniques of communication completed.
Proposal for ad hoc grant to meet with researchers in Eastern European countries interested in seriality in human communication systems prepared and submitted to International Research and Exchanges Board.
Preliminary proposal for an international seminar on seriality in human communication systems prepared and submitted for tentative support by Brigham Young University, Sandia Laboratories and University of New Mexico. Administration support of $1,000 designated for the project.
"Reliability of the OA Communication Climate Inventory," a report on research using an organizational communication climate inventory developed by R.W. Pace and B.D. Peterson.
"Communication Climate and Organizational Satisfaction," a report on the development of corporate communication policies and two new instruments for measuring climate and organizational satisfaction.

Lawrence B. Rosenfeld
Member of a six-person research team to receive a $281,000 NSF grant.
"Legal Representation at Administrative Fair Hearings: The 'Lawyer Effect'" submitted to Law and Human Behavior.

Robert L. Schrag
Ongoing project "Sports and Human Interaction" supported by a grant-in-aid of $840 from the University Research Allocations Committee.
"Harry Chapin Meets Kenneth Burke: Rhetorical Criticism for the Mass Communication Student." Submitted to Communication Education.
"TV and Film: Reflections on Reality." Submitted to Western Journal of Speech Communication.

Estelle Zannes
Received Research Allocations Grant: Study Police Communications, Summer Research (United Kingdom).

6. Activities in Learned and Professional Societies

Jean M. Civikly
Attended International Communication Association, May 1977, Berlin, West Germany: Board of Directors (Member at Large), Chair of Committee on Annual Conferences; Presented paper for Top Three panel in Organizational Communication Division, "Interviewer and Client Behaviors in Supportive and Defensive Interviews."
Jean M. Civikly (cont'd)

Speech Communication Association, Membership Committee (and campaign), 1977.

Western Speech Communication Association, November 1977, Phoenix:

Committee for Revision of the WSCA Constitution
Chair of "Implications of Back to Basics Movement for Speech Communication," Speech Communication Education Interest Group.

Secretary, Speech Communication Education Interest Group.
Elected to Vice-Presidency.

Secretary, Organizational-Interpersonal Interest Group.

Panel Member: Teaching Nonverbal Communication in the Community College

Paper presentation: "The Role of the Senior Citizen-Colleague in Speech Communication from the Perspective of the Junior Colleague."

Coordinator, Women's Citation Index.

New Mexico Communication Association:
Attended meeting November 1977, Roswell, New Mexico. President.

Farrel Corcoran


Daniel E. DeStephen

Presented papers at Western Speech Communication Association convention, November 1977, Phoenix:

"Counterplans: A Defense of the Traditional Perspective"
"Critiques of Empirical Research in Forensics"
"Tactics in Negotiations: A Preliminary Classification System"


Paul C. Feingold

President, Albuquerque Chapter, American Society for Training and Development.

Attended New Mexico Communication Association meeting, Roswell, New Mexico, November 1977; presented paper.


Richard J. Jensen

Attended New Mexico Communication Association meeting in Roswell, November 1977.


R. Wayne Pace  
First Vice-President (President-elect), Western Speech Communication Association.  
Director, Commission on Organizational Communication Curricula, Division IV, International Communication Association.  
Chairman, Committee on certification of speech communication teachers, New Mexico Communication Association.  
Member, Committee on Ethics, International Communication Association.  
Representative, States Advisory Council, Speech Communication.  
Attended meetings of professional associations:  
Evaluator, Speech and Drama, National Council for Accreditation of Teacher Education (NCATE).  

Timothy G. Plax  
Vice Chairman, Behavioral Sciences Interest Group, Western Speech Communication Association Convention, Phoenix, Arizona, November 1977.  
Speaker, Basic Course Conference, Western Speech Communication Assoc. Convention, Phoenix, Arizona, November 1977.  
Attended November 1977 meeting of New Mexico Communication Association, Roswell, New Mexico.

Lawrence B. Rosenfeld  
Referee for papers submitted to Quarterly Journal of Speech.  
Associate Editor, Communication Education.

Robert L. Schrag  
Attended the New Mexico Communication Association meeting, Roswell, New Mexico, November 1977; presented paper, "Rhetorical Criticism for the Mass Communication Student."  
7. Other Professional Activities

Daniel E. DeStephen
Moderator. AREA and CANT Debate over Nuclear Energy in New Mexico, December 1977.
Director: University of New Mexico Summer Debate Institute, June 1977.

Paul C. Feingold
Consulted for 15 different public and private organizations.

Frank A. Gerace

Richard J. Jensen
March 24, 1977: Judged Optimist Club Oratorical Contest
August 23: Moderator of first debate between Albuquerque mayoral candidates.
December 6 and 13: Taught workshop on public speaking at Lovelace-Bataan Hospital.

R. Wayne Pace
External Reviewer, Graduate Program, Department of Communication, Brigham Young University, April 1977.
Consultant on interpersonal communication, Animal and Plant Health Inspection Service, Department of Agriculture, Washington, D.C.
Consultant on presentations, Sandia Laboratories, Albuquerque, N.M.
Consultant on organizational development and communication, Lincoln National Forest, Alamogordo, N.M.
Consultant on interpersonal communication, Associated General Contractors, Albuquerque, N.M.
Seminar Leader, Basic Concepts of Semantic Behavior, South Area Midschool Principals and Counselors, October 1977.
Seminar Leader, Communication Theory, University of Wales, Cardiff, Wales, June 1977.
Lawrence B. Rosenfeld.
Lecturer on Self-Disclosure, Ohio State University, January 12-14, 1977;
In-service workshops/speeches for APS Guidance Counselors, Lovelace-Bataan personnel, First Unitarian Church of Albuquerque, during 1977.

Robert L. Schrag
Talk, "Television and the Jewish Community," to study group from Temple Albert.

Estelle Zannes
Consultancy, 1977 Mayoral Race, for David Rusk.
Hostess for television Governor's Report with Governor Apodaca.
Technical supervision of Navajo Time Cycle, television film aired on KOAT-TV, Albuquerque.

8. Non-teaching University Service

Jean M. Civikly
Library Liaison, Department of Speech Communication
Committee on Undergraduate Student Issues
Promotion Committee, College of Arts & Sciences, 1977-78.

Dan DeStephen
Faculty Advisor, New Mexico Forensic Council
Committee member: Scholarship, Prizes, Loans and High School Relations Committee, UNM.
Director of Forensics, University of New Mexico
Faculty Advisor, UNM Chapter of Delt Sigma Rho-Tau Kappa Alpha.

Paul C. Feingold
Member, University Committee for Development of an Inter-disciplinary Program in Energy Development.
Member, Speech Communication Department Advisory Committee
Director, Institute for Organizational Communication.
Faculty advisor to eight graduate students.
Directed one master's thesis; currently serving on eight doctoral committees and directing one master's thesis.

Richard J. Jensen
Chairman, Departmental Undergraduate Committee
Key Person, Speech Communication Dept., University Combined Fund Campaign.

R. Wayne Pace
Chairman, Committee on Continuing Education, UNM
Chairman, Department of Speech Communication, UNM
Departmental Undergraduate Advisor
Timothy G. Plax
Member, College of Education Graduate Committee, 1976-78
Member, College of Arts & Sciences Graduate Committee, 1977-78.
Member, Arts & Sciences Human Subjects Committee, 1977-78.
Member, University Human Subjects Committee, 1977-78.
Chairperson, Graduate Committee, Department of Speech Communication, 1977-78.

Lawrence B. Rosenfeld
Faculty advisor to graduate and undergraduate students.

Robert L. Schrag
Member of the Speech Communication Department Graduate Committee.
Member of the Board of Directors for KUNM-FM.

Estelle Zannes
Advisor for graduate students

9. Public Service

Paul C. Feingold
Public service through speeches or professional services to over ten public and private organizations.

Richard J. Jensen
Lector - Newman Center, University of New Mexico

R. Wayne Pace
High Councillor, Albuquerque, New Mexico Stake, LDS Church
Board of Directors, Albuquerque Kiwanis Club

Timothy G. Plax
Lecture to University of New Mexico Student Senate, Fall 1977.

10. Personal Information

Timothy G. Plax
Married Marlis Mann.

Lawrence B. Rosenfeld
II. Recommendations and Plans for the Future

A. Recommendations

1. Provide the department with adequate instructional and research facilities. Specifically, remodel the television laboratory area and increase departmental space for conference rooms, research labs, and faculty/student meeting areas.

2. Supply the department with an annual equipment budget to purchase and replace both portable video equipment and studio video equipment.

3. Return to the department the three FTE faculty positions which were lost during the past five years and increase the number of graduate assistants to eight.

4. Add three new FTE faculty over the next three years so that a total of 16 FTE faculty can be expected by the year 1980, which was planned as early as 1972.

B. Plans for the Future

With the resignation of the Chairman of the past six years, the Department plans to make a complete review of its status and programs. Out of that review will come specific recommendations and actions. Goals will be established to make the department a viable contributor to the university community.
APPENDIX A

TELECOMMUNICATION STUDIES
TELECOMMUNICATION STUDIES AT THE
UNIVERSITY OF NEW MEXICO

A Statement by the Department of Speech Communication

October, 1977
Telecommunication Studies at the University of New Mexico

A Statement by the Department of Speech Communication

Introduction

Telecommunication is the process of communicating over a distance by means of electromagnetic instruments designed for that purpose (Blake and Haroldson). Others might argue that television or some other channel of communication is defined by that which is carried on the channel. That is, if a dramatic production can be carried on television, television is therefore basically a theatrical art; if news can be recorded on video, video is basically a news art; if baseball can be carried on television, then television is basically a recreational art. The conclusion from any of these analyses would be that if the medium is recreational, for example, it should be studied in the Department of Health, Recreation and Physical Education; if the medium is basically dramatistic, it should be studied in Theatre Arts, etc. The flaw in this type of analysis lies in the failure to recognize the difference between the channel or medium and the event being carried or recorded. General Semanticists have characterized this flaw as a failure to realize that the word is not the thing, that the symbol is not the event, that the medium is not the message (in spite of what McLuhan says). Certainly, the medium or channel has an influence on the message. The form in which any given message is to be portrayed influences its design. Nevertheless, it is that very influence that makes the entire phenomenon fundamentally communicative and most clearly understood as a channel
which exerts different influences on events to be carried over the channel.

One such influence may result from a recent technological innovation referred to as "broadband communication" which has the potential of far exceeding present methods of distribution and may revolutionize the concept of mass telecommunication (Anderson). Bagdikian suggests the extent of the impact when he observes that "where we now have a maximum of seven VHF television channels in our largest cities, in the future we may have any number of multiples of 20 to 24,000 TV channels in each community." (Glessing and White) One of the more provocative and insightful comments on the uses of video and television in the future is that of Goldmark. He describes present and future cable-television systems that "take over the task of distributing information in bulk from central facilities to offices and homes. It would, in effect, be an alternative way of receiving the information that now comes through books, records, broadcasting and so on." Goldmark also describes a network of cable-television that would "interconnect the major public institutions of the city, such as the health, educational or emergency services." Another network would serve as the city's "sensory nerves." It would "provide information to appropriate centers on such matters as weather, pollution, traffic, the location of emergency vehicles and the status of public transportation."

Although some may argue that television (a telecommunication vehicle) is used primarily to distribute entertainment to the masses, the dominant view of the field today is that telecommunication and television represents media of communication whose greatest adventures are in the area of information dissemination. Mr. Alvan Barshop, Assistant General Manager of Sales for the Panasonic Corporation of America, states: "We see video moving dramatically away from traditional entertaining
programming into more 'information' oriented areas—and our sales reflect this shift." Writing about "small-studio" video tape production, Quick and Wolff observe:

There has been tremendous publicity and active marketing effort behind the sales of video tape and video cassette equipment. . . .

Within a matter of a few years, probably less than a decade, many communications now being written will be transmitted by media that do not involve writing. Television may well dominate as the information system—in industry, in government, and in education. Its impact on marketing alone will be fantastic, since it will enable one to get a sales message into hundreds of selected offices and homes at extremely low cost. . . .

After all, the primary purpose of the small-studio production is to communicate information, not to present entertainment. But information can be presented in an interesting, and often entertaining manner.

Without belaboring this point, we can simply state that television and video are universally regarded as media of communication and information. The literature is so extensive and the data so rich that to review it here would only belabor the obvious. The issues are treated in great detail in The Handbook of Communication, Broadcasting in America, Mass Media: The Invisible Environment, The Handbook of Social Psychology, and several five-foot shelves of books on telecommunication.

Philosophy

The basic question to be addressed by this committee concerns the development of curricula in telecommunication. The major philosophical issue underlying such a question with regard to telecommunication
curricula centers on the question of what is the primary function of education in telecommunication. In other words, given the limited resources available at the university, what should be the focus of a program in telecommunication? Two needs tend to surface and should be reviewed in order to formulate a coherent attitude toward any proposed curriculum in this area: the training of performers versus the education of consumers. Occasionally the distinctions are obscured by proponents of professional training who argue that performers in the "real world" need so-called specific, vocational training rather than a vague, misty liberal arts education. The real distinction, however, is between those who wish for a curriculum that is performer-oriented versus a curriculum that is consumer-oriented.

The performer-oriented curriculum is directed primarily towards the status quo of broadcast production: how to present oneself artistically in front of a camera, how to sell time, how to construct saleable schedules, how to act in a drama, how to carry out market research. In the performer-oriented curriculum, when we teach a course in the economics of broadcasting, for example, a student might be taught how to run a station for profit. In the consumer-oriented curriculum, the focus would be on revealing the financial structure of the broadcasting industry, what financial interests are at stake, and how those interests influence programming philosophy. In a performer-oriented curriculum, when writing-for-telecommunication-media is taught, students are systematically taken through the idioms of the stylized forms and the routines of the status quo. In a consumer-oriented curriculum, students examine basic concepts and look for innovative possibilities that may not even exist in current broadcast practice. Thus, when we talk about research, should we talk about the sales-related demographics of a
station's coverage or talk about ways of assessing the impact of telecommunication on the structure of society? Should we be exploring the analysis and criticism of broadcasting with aesthetic, psychological, and ethical bases or should we be training future station managers in the techniques of evaluating the ratings of their programs?

Obviously, these alternatives are not necessarily exclusive, but the major emphasis is critical. Whether a student intends to become a performer or a consumer is irrelevant: both need an understanding of how telecommunication operates, and telecommunication is much broader than the skills of a performer. This is not to disregard the legitimacy of some "how-to-do-it" courses, such as programming, possibly sales, and general studio skills. If a university is to be true to its traditional purpose of opening up minds to a wider view than specific job-training skills, then the consumer-orientation must be selected as the basic philosophical perspective against which to make curricular decisions. It is the consumer-orientation that seeks to introduce alternatives, to examine causes, to make comparisons, to analyze effects, to review criticisms, to provide futuristic glimpses, to ferret out the creative capabilities as well as the limitations of the telecommunication media. The performer-oriented curriculum and performance-oriented program is a trap, leading to an exclusivity and concentration of resources on a few students that is ultimately detrimental to the goals of a university and not particularly wholesome for students, since it lacks the more comprehensive and theoretical view of the field of telecommunication. We do not need a professional school of broadcasting which might facilitate the personnel needs of some broadcasters, but a strong program in telecommunication with a consumer-orientation.
The philosophical differences between a performer-oriented curriculum and a consumer-oriented curriculum are sufficiently important in themselves to point the direction in making decisions. The consumer-oriented approach is more relevant to greater numbers of students and is less costly to implement; such an approach is more consistent with the educational objectives of a university than the performer-oriented approach; the consumer-oriented program can also provide students with important skills that have applications in a wider range of career opportunities. The fastest developing career openings for telecommunication students is in small-studio video in business, industry and government. In Albuquerque, within the past three years, several small-studios have been constructed. Mountain Bell's small studio and the compact facility at the Public Service Company are two good examples. Practically every major company and government agency uses video in public relations and training activities. The Albuquerque Public Schools are investing heavily in quality video equipment for both instructional and public information purposes.

Curricular Trends

What are the trends in academic departments? How is telecommunication being handled? Meeske notes that "over the years academic programs in radio and television have generally been accommodated in larger units, usually departments of speech. The largest number of radio-television teaching programs are still in speech departments, but undergoing significant change. Departments are altering their emphasis to communication or speech-communication, and programs in broadcast education are inevitably following suit." Meeske's point is well taken. Across the country, departments of speech are making critical changes
in their orientations, primarily away from the traditional "performance" orientation and toward a more behavioral, consumer orientation. The annual survey of broadcast education conducted under the auspices of the National Association of Broadcasters indicates the persistent character of such changes. From 1968 to 1974, a period of six years, the number of departments of radio-television, broadcasting, etc. offering bachelor's degrees remained the same (56 departments). During that same period of time the number of departments of communication or speech communication offering degrees in broadcasting or telecommunication increased dramatically. Almost twice as many departments (97 versus 56) whose titles include the term communication offered programs in telecommunication than did departments of broadcasting, etc. (Niven, pp. 456-457).

At the University of New Mexico, the transition from speech to communication began years ago and was completed some time back. The Department of Speech Communication is recognized widely for its faculty and the contributions which they make in the four curricular emphases in the field of communication; however, telecommunication has been hampered in its development due to inadequate facilities and limited faculty. Nevertheless, the curriculum is conceptually sound and far-reaching in its implications.

The principles on which the program in telecommunication, especially at the undergraduate level, was established have been summarized by Meeske. His paper has been distributed widely on this campus; nevertheless, a short review of the guidelines in this context may be helpful. Meeske observes that in the past, the "broadcast curriculum has tended to present a narrow view of the role of mass media in society. Emphasis has been on the study of radio and television skills, with little
thought as to how these pervasive mass media fit into the total communicative process. In short, the behavioral method of teaching broadcasting, a touchstone of communication oriented teaching, has not been the traditional method." Hence, he suggests that the broadcast curriculum can be adapted to the communication orientation in the following ways:

1. **Retain studio courses, but as lower division requirements.** The student of telecommunication, regardless of career plans, must develop a basic understanding of the principles involved in the production of telecommunication materials.

2. **Make studio courses more scientific.** Each course must have specific behavioral objectives established which students are to accomplish, so that the designated studio skills can be demonstrated.

3. **Require more behaviorally oriented broadcast courses and fewer studio courses.** Courses in evaluation, strategies, design, policy, and regulation should be included rather than performance-oriented courses like announcing, advanced TV direction, television acting, and newscasting.

4. **Develop a practicum or internship where the student can refine his studio skills.** The argument is not that studio courses have no value, but that students with such interests can refine their skills more directly and more quickly through internships.

5. **Stay out of the production business.** The decision to equip and maintain a broadcast quality studio represents a major financial investment; in addition, once an elaborate studio has been established, there is a tendency on the part of the administration and the broadcast faculty to use it for purposes other than classroom teaching, following a natural inclination to diffuse the enormous cost to other
activities. Communication-oriented departments should maintain simple, relatively low-cost studios for the sole purpose of departmental teaching. Meeske concludes his analysis with the observation that taking these steps would eliminate the distinction between "speech" and "broadcasting" since the concern is with communication, not with any special facet of it. The communication orientation draws more heavily on the use of mass media than on traditional "speech" teaching, for the electronic media enhance a variety of courses not usually considered "radio-televisio..."

Tiemens comments on the union of speech communication and broadcasting programs: "The influence of speech on broadcasting programs has been generally desirable. The concern with theory and research has advanced the field beyond what might be expected if it had developed as strictly a 'professional' program." Tiemens directly asserts the value of the consumer-oriented curriculum: "To fulfill the objective of training mass communicators does not mean that we need be satisfied with simply training reporters, writers, announcers, or cameramen. Any college graduate with a minimum of specialized training can easily fill such positions. Rather, our objective should be to educate each student to his or her maximum potential so that he or she can make intelligent decisions in using the media to promote a free, harmonious and democratic society." Relevant education of that type is deeply rooted in communication theory and its areas of application. Complementary courses in rhetoric and interpersonal and organizational communication include the critical skills and theory for preparation for telecommunication careers in business, industry, government, and broadcasting, as well as for fulfilling the educational objectives of a university education.
Courses

What is the status of the telecommunication program in speech communication? Although modest, the curriculum in telecommunication is more extensive than all other departments in the University combined (see attached advising sequence in telecommunication). The curriculum is organized so as to offer courses in four general areas: (1) studio production, (2) theory and strategies, (3) structure and control, and (4) evaluation and research.

Studio Production Courses

Studio production courses, with syllabi attached, include the following:

265. Telecommunication Production. Beginning course in studio and equipment use. It was designed for and has been used as the introductory studio course for all students on campus.

366. Telecommunication Methods. Intermediate studio, production course open to all students who have completed 265 or equivalent.

367. Telemediated Film. The study and production of film for television; an intermediate course.

465. Advanced Telecommunication Methods. Advanced undergraduate and graduate student projects course in telecommunication message design, with opportunity to refine production skills.

These courses teach students how to work in and manage themselves in a studio, how to operate video equipment, and how to produce a program. The overall skills being developed are those required to take an idea from inception through distribution by electronic means.

The department offers and manages the Communication Intern Program (see attached application and contract) through which students are placed
in local stations, businesses, and government agencies.

The department has a simple, relatively low-cost studio for the sole purpose of teaching. Through skillful acquisition of surplus equipment, through regular purchases of some new equipment, and through the ingenuity of a full-time electronics technician, the studio is functional and operational. With some remodeling to increase floor space, to relocate control rooms, and to reduce safety hazards, a modest teaching studio could result. However, the entire department is in serious need of more suitable facilities. The attached copy of "building needs" of the department has been submitted for review by the university planning committee in order to have priority assigned to construction. The facilities, as described, would provide housing somewhat comparable to new facilities recently constructed for other departments on campus. Speech Communication is one of the few remaining departments with dramatic building needs. It would seem appropriate to meet these needs prior to expanding facilities for other departments who have recently acquired new facilities.

Theory and Strategies Courses

Theory and strategies courses, with syllabi attached, include:

461. Strategies of Telecommunication. A study of the most effective ways of using telecommunication media to accomplish specific communicative purposes, including informing the public, producing attitude change, and entertaining.

464. Telemediated Instruction. A study of the use of video, film and other electronic media in adult and alternative education, including business and industrial training and community development.
466. Writing for Telecommunication Media. Analysis of standard formats and innovative approaches to the preparation of materials for television, for industrial and business media programs, and for other telecommunication distributors.


These courses are concerned with telecommunication theories, systems of electronic communication, the flow of information and the diffusion of innovations through the mass media, and strategies for creating the greatest impact on select audience through the use of the electronic media. Of special concern are relationships among the mass media and interpersonal communication networks, and the place of electronic media in the development of primitive and underdeveloped societies.

Structure and Control Courses

Structure and control of media industries courses, with syllabi attached, include the following:

261. Telecommunication. Introductory course in the history, development, regulation, programming, administration, and audiences of the telecommunication media. A general course for all students on campus.

564. Seminar: Telecommunication Policy and Regulation. A graduate analysis of issues relevant to the management, regulation, control, and structure of electronic media industries.

These courses review the way in which radio and television developed, the structure of the industry, its sources of support and the mechanisms for its control, the content of the telecommunication media,
the audiences in relationship to programming, ownership and responsibility, the fairness doctrine, and the public interest issues.

Evaluation and Research Courses

Evaluation and research courses, with syllabi attached, include the following:

361. Telecommunication Evaluation. An intermediate course in methods of assessing the impact of electronic media on people and society, and issues surrounding the evaluation of the telecommunication media.

These courses examine ways of assessing the effectiveness of the telecommunication media, ascertainment procedures, mass media research methods, and techniques for analyzing the media.

Courses in other curricular lines within the department also analyze how the electronic media affect the messages and the settings with which they are concerned. Courses in organizational communication, for example, look at how media are used within organizations to get messages disseminated. Courses in rhetoric analyze strategies relevant to the use of media in social action programs, political campaigns, and public information programs. Courses in interpersonal communication look at how the media affect interpersonal perceptions and relations, how the media influence interpersonal behaviors, and how the electronic media might be used to learn more about interpersonal communication.

In sum, courses in telecommunication represent a solid, basic program that, in combination with courses in other curricular lines within the department, provide preparation for students interested in careers involved with electronic media. Some of the areas clearly lack a full complement of courses, but the design of the curriculum is comprehensive and amenable to development.
Departmental Needs and Commitments

What are departmental plans and directions for the future? What are major departmental needs in fulfilling its instructional obligation in telecommunication?

**Staffing.** Through an unfortunate combination of unusual circumstances, the department lost two faculty positions when three senior faculty retired just as restrictions in replacing faculty positions were imposed a few years ago. The departmental program is vigorous, with heavy student loads (introductory courses ranging from 100 to 250 students per section). The department anticipates receiving relief through the return of those faculty positions lost due to an unfortunate historical accident, plus additional positions justified through heavy enrollments.

**Curriculum.** The department asserts its proprietary rights over the general curriculum in telecommunication as described above, including courses in studio production (with the exception of news broadcasting which is the reasonable province of Journalism, and drama for television which may be properly taught in Theatre Arts), telecommunication theory and strategies, structure and control of the telecommunication industries, and evaluation and research on the telecommunication media.

With appropriate support from the College and University, the department has the foundation in courses, faculty, and studio facilities to teach the following:

1. A basic, introductory course in studio production for students in all departments where a need for familiarity with video equipment and studio operations is desirable.

2. A basic, introductory course in the history, development, regulation, programming, administration, and audiences of telecommunication for students in all departments where a need exists for such
3. Select intermediate and advanced production courses, with the exception of broadcast news and television drama, in the uses of video in alternative education such as business and industrial training, public information and public relations programs, community development and the development of underdeveloped countries, and the diffusion of innovations in society.

4. Advanced undergraduate and graduate courses in the theory, process, evaluation, and research on telecommunication and the mass media in general.

5. Advanced undergraduate and graduate courses in the management, administration, structure, and control of telecommunication industries.

The department asserts its proprietary rights over a general graduate program in telecommunication. We feel that it is important not to proliferate graduate programs in the State, but rather to strengthen current programs. The department is seeking to facilitate the movement of undergraduates interested in graduate work in telecommunication from other departments on campus as well as from undergraduate programs in other colleges and universities in New Mexico.

Although the department is currently functioning with nine faculty with doctoral degrees and one who has completed all requirements except the dissertation, additional staff in telecommunication would allow us to better adapt the graduate program to a large body of students with undergraduate degrees in the allied communication arts and sciences. The department is responsible for and has acquired a wide range of professional journals reporting scholarly research in communication and related support disciplines (see attached list of journals reporting communication research). Faculty of the department are regular
contributors to the literature of the field. Since 1972, current and former faculty have written while associated with the University of New Mexico dozens of research and scholarly articles plus eighteen textbooks, several of which are among the most widely used in the profession. Approximately six more books are in process or under contract.

**Cross-listing and joint faculty appointments.** The department currently lists courses in television drama offered by the Theatre Arts Department in its section of the bulletin. We would like also to list the courses in broadcast news offered by Journalism on a "See Journalism" basis.

The department would like to have the faculty in Journalism and Theatre Arts who teach broadcast news and television drama on joint or consulting appointments in Speech Communication. On that basis, a small committee would automatically exist which could have responsibilities for coordinating the content of relevant courses and eliminating unnecessary overlapping content. Such a plan would bring those faculty together regularly so that they could become better acquainted and make recommendations to Department Chairs and the Dean concerning telecommunication issues, but especially regarding the two introductory courses in studio production and the history of telecommunication.

**Facilities.** Because of the size and complexity of the instructional commitment in telecommunication, the department must have its own teaching studios and allied support areas. As a temporary measure, until building plans (copy attached) have been reviewed, approved, and assigned a construction priority, the current studio facility could be remodeled to provide a functional, modest, but operational teaching laboratory. The following changes are minimal:
1. Move the west wall of the studio into the courtyard to create a larger studio area, to allow for the centralization of control rooms, and to achieve visual contact with the studio from control rooms.

2. Create a new entrance into the studio area to eliminate congestion and reduce the safety hazard created by a narrow hallway and stairs leading into the basement.

3. Remove some walls to permit use of a blind office area for storage and work space.

Then, as soon as possible, a total facility should be constructed in which the laboratory studio is simply an integral part of the entire communication building.

**Equipment.** The College and University must provide an equipment budget adequate to maintain, replace, and update the studio at periodic intervals. The department does not want a facility for broadcast purposes, but it does need a studio with equipment that is compatible with broadcast facilities such as KNME, commercial stations, cable TV, and local small-studios in the business community. An annual equipment budget is essential for this purpose. By the end of this academic year, the department should have an operational 3/4 inch color video studio, with editing and special effects capability. Three-quarter inch portable units should also be available.

**Maintenance.** Our experience with a full-time electronics technician has clearly demonstrated the efficacy and importance of continuing with this type of technical assistance on the premises. Our technician is able to assist in the supervision of faculty, assistants, and others who work with students so as to reduce misuses of equipment, reduce unnecessary wear, and keep the equipment operational on a moment-by-moment
basis. It has been especially helpful to have the technician available while equipment is being used to make adjustments, re-activate outages, and provide services immediately. Down-time has been reduced to a fraction of what it was prior to having our own technician. In addition, the technician is constantly involved in the re-evaluation of equipment needs to meet instructional demands. The technician is also alert to ways of increasing instructional effectiveness through the acquisition of surplus equipment, making modifications, and upgrading equipment.
ATTACHMENTS

Department of Speech Communication Building Needs

Communication Intern Program
  Requirements
  Application
  Contract

Telemediated Communication
  Advising Sequence

Syllabi for Telecommunication Courses
  SpCom 261. Telecommunication
  SpCom 265. Telecommunication Production
  SpCom 361. Telecommunication Evaluation
  SpCom 366. Telecommunication Methods
  SpCom 367. Telemedia Film Production
  SpCom 461. Telecommunication Strategies
  SpCom 464. Telemediated Instruction
  SpCom 465. Advanced Telecommunication Methods
  SpCom 466. Writing for the Telecommunication Media
  SpCom 561. Seminar: Telecommunication Processes and Effects
  SpCom 564. Seminar: Telecommunication Policy and Regulation

References

Journals reporting research on Telecommunication
Department of Speech Communication

Building Needs

The Department of Speech Communication is currently housed in two different buildings, with some part-time personnel in a third one. The department is housed in make-shift and inadequate facilities despite demands to accommodate increasing numbers of students. The department has areas which are unsafe, arranged awkwardly, and spatially separated. The department lacks seminar rooms, a departmental commons and lounge area, a library and conference room, research facilities, and adequate equipment storage, check-out, maintenance, and security areas. The department has no classrooms adjacent to the studio which necessitates using valuable studio space for holding classes, and which effectively prohibits the use of video in specialized classes in small groups and nonverbal behavior. Faculty do not have the space and facilities to conduct research, nor are they able to teach classes in the most effective way.

Building needs have been summarized under three major categories: administrative, instructional and research, and studio.

Administrative

This section brings together the usual and unusual administrative functions that occur in this department. Three specialized activities, in addition to routine departmental administration, have demands on administrative space: studio management, forensics administration, and administration of the Institute for Organizational Communication. Needs in these areas are summarized below.

Department Administration

Chairman's administrative office (non-teaching) 150 sq. ft.
Departmental conference room (for holding faculty meetings, special conferences, thesis committee meetings, etc.) 400 sq. ft.
Secretarial offices:

- Departmental secretary 135 sq. ft.
- Staff secretary 120 sq. ft.
- Student secretaries (incl. work-study students) 300 sq. ft.

Work area, including secure section for faculty mail boxes and place to assemble, staple, and prepare instructional materials 180 sq. ft.

Commons room (comparable to Green Room in Theatre Arts, faculty-student lounges in Philosophy, History, Modern and Classical Languages) 300 sq. ft.
Institute for Organizational Communication

Administrative office for preparation of materials for distribution, storage, and planning and organization 135 sq.ft.

University Forensics

Director's office 135 sq.ft.
Assistant Director's office 120 sq.ft.

Studio Management

Studio Manager's office (including program monitor) 135 sq.ft.
Electronic Technician's office (including program monitor) 135 sq.ft.
Equipment maintenance, storage, and check-out area 900 sq.ft.

Maintenance area should be equipped with all needed test and repair equipment.

Storage and check-out area should have shelving all around and would contain all equipment for studio and student use, including such items as film cameras and allied equipment, color video recorders and tripods, field lighting kits, 35 mm slide projectors, 16 mm projectors, audio recorders, video playback units, monitors, 35 mm still cameras with flash, lenses and filters, shoulder braces, etc.

Teaching Offices

Faculty (15 offices, including an office for departmental chair for teaching) 1800 sq.ft.
Graduate Assistants (8 offices) 480 sq.ft.

TOTAL ADMINISTRATIVE SPACE NEEDS 5,705 sq.ft.
Instruction and Research

At present, the instructional and research facilities specific to the needs of the Department of Speech Communication do not exist. Each semester, the faculty must deal with classrooms with inadequate seating capacities and arrangements. Frequently, faculty and graduate assistant offices must double for areas where research and testing are conducted. Students also need areas for taping of speeches, class activities, and microteaching sessions, and other areas for reading, consulting in small groups, and for completing research requirements. The following facilities are designed to meet these needs.

Instruction

Department Classroom
1 room, 125 sta. @ 20 sq. ft.
area for department class meetings which require observation, and/or videotaping of class activities (carpeted, chalkboard, movable seats), partitions available for breakdown into five areas of 25 sta. This room must be adjacent to the studio, so that activities specific to class in the department can be observed/taped. 2520 sq. ft.

Seminar Rooms
4 rooms, 15 sta. @ 20 sq. ft.
Rooms for advanced undergraduate and graduate student class meetings (carpeted, chalkboard, working tables which can be moved to fit class needs, movable seats or cushioned areas) 1200 sq. ft.

Forensics Preparation Room
1 room, 20 sta. @ 20 sq. ft. 400 sq. ft.

Departmental Learning Center (see attached diagram)
1 room, 40' x 60'
The center will serve the following functions:

a. area where students can read/study (Reading Room) 30' x 40'
b. area where students can take make-up tests and complete written work for class or research studies (Testing Area) 20' x 20'
c. three rooms where students can videotape speeches, conduct microteaching sessions, view videotapes, listen to required audio tapes (Tape Rooms) 10' x 20'
d. Reception area where materials can be checked out (books, articles, videotapes, audiotapes, etc.) 10' x 20' 2600 sq. ft.

Total instructional space needs 6520 sq. ft.
Research Facilities (see attached diagram)

Overall area: 40' x 60'

Small Group Laboratories

3 rooms, 10' x 17'
rooms for observation of small group interactions, microteaching. Adjoining room for observation and taping through one-way mirror, 7' x 17'

Dyad Laboratories

4 rooms, 8' x 17'
rooms for observation of dyadic interactions and related research with individual subjects. Adjoining room for observation and taping through one-way mirror, 7' x 17'

Data Analysis and Storage Areas

2 rooms, 12' x 16' and 10' x 16'
two partitioned areas for data analysis and storage of data, research equipment storage

Computer Terminal Room

1 room 8' x 12', computer proxy hook-up

Reception Area

1 room, 8' x 17'
reception area for research subjects for dyad and small group laboratories

Total research space needs 2400 sq. ft.
Departmental Learning Center

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<th>Tape Room I</th>
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<th>Tape Room III</th>
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<td>10' x 20'</td>
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Testing Room
20' x 20'

Reading Room
30' x 40'

Reception Area
10' x 10'

Research Facilities

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This section represents the projected building needs for studio-related activities. Although the department does not subscribe to a "state-of-the-art" vocational-type instruction in electronic media production, it must reach a level of sophistication much beyond the present level if it is to continue at all. The department has a definite interest in and a mission to perform in preparing students for non-broadcast uses of the media. Such a focus achieves an internal coherence in the department with its current offerings in organizational and intercultural communication, rhetorical, forensics, and governmental policy and regulation in the telecommunication field.

The facilities requested are modest and do not aspire to broadcast capability. However, they are the minimum necessary to insure durability in a teaching situation as well as cost/effectiveness. The facilities requested have the purpose of introducing students to the process of using electronic media in a variety of settings. It is impossible to deal with the theory of structural, media constraints and audience responses to the electronic media without a corresponding experience in the actual production of representative messages. The experiences to be gained by adequate facilities will enable students to consider careers in broadcasting, corporate communication, advertising, government communication, industry media management, public-access, and community media organizations.

**Studio A**

This is a full production studio with concrete floor covered with plastic coating; it should have a 25 ft ceiling and a set of 10 ft x 15 ft outside doors. The studio should contain the following permanent equipment and other items:

- Microphone patch panels
- Lighting patch panel and counterweight patterns
- Lighting instruments
- Cameras
- Color studio monitor
- Climate control system for humidity, dust, temperature

Storage area adjacent to studio (set and prop)

**Control Room**

This room should have 10 ft ceilings and house the following items:

- Monitors for film islands, cameras, video recorders, color effects, preview, and program.
- Character generator
- Lighting dimmer board
- Camera control units
- Remote film and video tape recorder control
- Video tape recorders

1500 sq. ft.

300 sq. ft.

150 sq. ft.
Audio Booth
This room should also have 10 ft ceilings and house the following items:

- Reel-to-reel tape recorders
- Audio cartridge recorders
- Turntables
- Tape eraser
- Audio console
- Booth microphone
- Lavalier microphones, hand-held microphones, unidirectional microphones, desk stands, desk-type microphones, extending microphone, floor stands, studio microphone boom

Film Islands
This room should have 10 ft ceilings and will house the following items:

- Multiplexers
- Telecine cameras
- 16 mm magnetic and optical projector
- Super 8 mm magnetic and optical projector
- Drum 35 mm projectors

Video Editing Room
This room should have 10 ft ceilings and will house the following items:

- Editing control system for cassette recorders
- Playback video tape recorders
- Editing video tape recorder
- Switcher-fader for editing
- Color monitors

Studio B
This is a modified facility for preliminary work, with concrete floors covered with plastic coating; it could have a 15 ft ceiling. This studio should contain the following permanent equipment and other items:

- Climate control systems for humidity, dust, temperature
- Black and white cameras on cam heads and counter-weighted pedestals
- Lighting set-up including instruments on pantographs, patch board and dimmer board, pipe grid
- Video editing system
Audio Room
Film Island
Storage Space (fpr props, set, etc.)

Film Editing Room
This is a room in which to edit films for use on television and to integrate with other systems; it should include the following permanent equipment and other items:
- Flat bed editor/viewer
- Synchronizer
- Hot splicer
- Equipment for tape-to-film dubbing
- Equipment for tape-to-full coat dubbing
- Picture/sound interlock projection

Centralized Tape Distribution Center
This room serves as a depository of video and audio tapes for classroom and studio use, including monitors and audio tape playback units for student review of materials

Dark Room
This room provides for the processing of film for use on television. The room would house the following equipment and materials:
- Running hot and cold water, fixtures, and sinks
- Enlargers
- Print washer and dryer
- Light table for examination of negatives
- Dry mount press
- Trays, thermometers, etc.
- Negative dryer
- Paper cutter and guillotine
- Layout table

Workshop
This area is used for construction of sets, to house power tools, and as a work area.

Graphics Room
This room allows for the preparation of materials such as signs, captions, titles, etc., and should include such equipment and materials as a copy camera, light table, and drawing tools and boards.

Total Studio Space Needs
7055 sq. ft.
Summary

Total Administrative Space Needs .................. 5705 sq. ft.
Total Instructional Space Needs ................. 6520 sq. ft.
Total Research Space Needs ....................... 2400 sq. ft.
Total Studio Space Needs ......................... 7655 sq. ft.

TOTAL DEPARTMENTAL SPACE NEEDS ................. 21,680 sq. ft.

RWP:mp
1/25/77
The Communication Intern Program is sponsored by the Department of Speech Communication at the University of New Mexico. Arrangements are made by the Department to place qualified students in organizations to learn about practical communication problems and to develop ways of solving them. Placement does not consist of on-the-job training, but rather an opportunity to study professional, union, volunteer, parent, health, education, and service organizations.

In order to have some assurance that students are adequately prepared to benefit from this type of educational experience and to provide the expertise necessary to contribute meaningful analyses to problems, each intern must complete the following requirements prior to entering the program. Please review the requirements and, if you qualify, complete the application on the reverse side of this form. Leave the completed application with the Departmental Secretary, 1801 Roma NE, Room 130.

Requirements to be Completed Prior to Off-Campus Placement as an Intern

1. Thirty (30) credits in Speech Communication courses.
2. SpCom 101 or 102, Introduction to Speech Communication
3. SpCom 265, Telecommunication Production
4. At least one course from each of the following groups:
   a. 221, 240, 130, 270
   b. 348, 361, 428, 338
   c. 367, 366, 461, 464, 465
   d. 330, 442, 444, 425, 466, 327
   e. 334, 350, 421, 431

Although not required, it is recommended strongly that students complete one or more of the following courses:

   f. Journalism 251, 252, 340, 401, 402, 440

*If you wish to be placed in an organization, it is strongly recommended that you take these courses.

(continued on reverse)
APPLICATION FOR INTERN PROGRAM IN SPEECH COMMUNICATION

Name: ____________________________

Address ____________________________ Telephone No. __________

Class ____________________________

Major Area of Emphasis (Please list appropriate courses or special training.)

Minor area(s) of emphasis (Please list appropriate courses or special training.)

Employment background (Please include volunteer work.)

Career Objectives: (Please be specific.)

Would you be willing to work as an intern for 9-11 hours a week for 3 hrs. credit? ______Yes ______No

CR/NC ONLY Comments:

Would you be willing to work as an intern for 15-20 hours a week for 6 hrs. credit? ______Yes ______No

CR/NC ONLY

Reasons for wanting to participate in the intern program. (Please attach a separate sheet of paper.)
THE UNIVERSITY OF NEW MEXICO
Communication Intern Agreement

THIS AGREEMENT is made by and between THE REGENTS OF THE UNIVERSITY OF NEW MEXICO, a corporation of the State of New Mexico (hereinafter called the "University" or "Department"), and ________________ (hereinafter called the "Organization").

The Department and the Organization hereby agree as follows:

1. To participate in the Communication Intern Program, the purpose of which is to provide students of communication with an opportunity to receive practical experience in analyzing, preparing, presenting, applying, engaging in, and studying communication in all types of agencies, businesses, industries, and other organizations.

2. That the Department of Speech Communication of the College of Arts and Sciences within the University of New Mexico is recognized as the credit-granting, coordinating, and supervising sponsor of the Communication Intern Program.

3. That qualified students will be selected for participation in the Communication Intern Program from applications submitted to the Department. Interns shall be screened for specific skills relevant to the needs of the Organization.

4. That the Organization will accept an intern only after an official representative of the Organization has interviewed the prospective intern and given formal approval of the applicant.

5. That interns shall be assigned to the Organization for approximately 12 weeks commencing at the second week of a semester and terminating at the end of the thirteenth week. Changes in the length of an assignment may be made when acceptable to the Department, the Organization, and the Intern, but modifications in the number of weeks an intern shall be assigned to the Organization must be stated in writing.

6. That the Organization agrees to accept _____ (no.) intern(s) for _______ semester of the ________ school year for _______ hours per week. The intern will receive _______ credits for satisfactory completion of the internship.

7. That both the Organization and the Department have the right to release or dismiss an intern from his or her duties at any time. Violations of the rules, regulations, or requirements of the Organization, the University and/or the Department will be considered sufficient cause for dismissal.

8. That the Organization will provide direct supervision of the intern.

9. That the Department will provide an advisor who will be responsible for coordinating the academic activities of the intern.

(continued on reverse--
10. That where interns are expected to live on-site in order to carry out assigned duties, the Organization will provide per diem or board and room for the intern.

11. That interns will provide their own transportation to and from their assignments within the City of Albuquerque; but that the Organization will furnish or pay for transportation to and from assignments outside city limits.

12. That the Organization may provide compensation to interns for services provided. Nothing in this Agreement shall be construed so as to imply that providing compensation is obligatory or even desirable. This provision is permissive only.

13. That, where possible, the Organization will make a financial contribution to the Development Fund of the Department to improve the quality of the intern program and to defray expenses associated with managing and operating the intern program.

14. That the Organization, the Department, and the intern shall be responsible for providing the following evaluations of intern performance:

   a. The immediate supervisor of the intern in the Organization will submit to the Department a narrative report evaluating the performance, progress, and accomplishments of the intern, no later than one week following the intern's exit from the Organization.

   b. The advisor of the intern in the Department will make periodic on-site observations of the intern's work, will meet with the intern, and will meet with the Organization supervisor to review the work of the intern.

   c. The intern will submit a written report of his or her assignment, performance, organizational relationships, and progress to the departmental academic advisor. The report should include sections describing tasks, experiences in residence, ideas for improvement, training received, and abilities utilized. The report must be submitted within one week following the intern's exit from the Organization.
Department of Speech Communication

SUGGESTED COURSES FOR A PROGRAM LEADING TO

CAREERS IN TELEMEDIATED COMMUNICATION and BROADCASTING

REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

102  Introduction to Speech Communication  3
221  Interpersonal Communication  3
261  Telecommunication  3
265  Telecommunication Production  3
327  Persuasive Communication  3
361  Telecommunication Evaluation  3
366  Telecommunication Methods
   OR  3
367  Telemedia Film Production  3
421  Theories of Communication  3
425  Small Group Communication  3
461  Telecommunication Strategies  3
465  Advanced Telecommunication Methods  3
466  Writing for the Telecommunication Media  3

36 credits

Form 976 (Over)--
Complementary Courses in OTHER PROGRAMS

Architecture
104 Visual Communication 3

Art
287 Photography I 3
386 Photography II 3
387 Photography III 3
388 Cinematic Photography 3
389 Photo Communications 3
487 Advanced Photography 3

Curriculum and Instruction
431 Audiovisual Methods and Technology 3
432 Prod. of Instruct. Materials 3

Journalism
261 News Photography 3
277 Graphic Design 3
401 Advertising 3
440 News Programming 3
469 Media Management 3

Psychology
101 General Psychology I 3
102 General Psychology II 3
260 Psychology of Learning 3
363 Psychology of Perception 3

Film
210 Introduction to the Film 3
327-328 History of the Film 3
427 Topics in Film History 3

Theatre Arts
129 Stage Craft 3
255-256 Stage Lighting 3
275 Technical Production 3
305 Rehearsal and Performance 3
351 Television Drama Production 3
352 Advanced Telev. Drama Prod. 3
Course Goals

This course will attempt to outline and describe the structure and functioning of the broadcast industry. Although the information will be relevant to potential broadcasters, it is presented from the point of view of the consumer rather than the producer of messages. The emphasis will therefore be on criticism and evaluation, not on vocational skills. It is hoped that this will make us all better listeners and viewers, and thus contribute to the progressive humanizing of telecommunications.

The treatment will necessarily be broad, as befits an introductory course, but it is hoped that those who are further interested will have the opportunity to pursue some of the themes looked at here in greater depth through more specialized courses.

Required Readings


Another book on telecommunications, of a popular nature, on which you will write a book report. See handout.

Evaluation

There will be a mid-term exam (worth 25% of total grade), a final exam (worth 50%), and a book report (worth 25%). Clarification on the book report is offered on a separate handout. The suggested list, from which a book may be chosen, may be expanded after consultation with me. All exams will be objective in nature (short answer, matching, multiple choice). Before each, a study-aid sheet will be issued, which will help you in refining your study/revision by pointing out the topics and themes which are considered most important by the instructor.

General Course Outline

A. Overview: American Broadcasting in the context of international broadcasting and broadcasting in other countries.

B. The technology and its use

C. History of the development of American broadcasting
   Hardware
   The corporations
   Regulation
   Popular culture
   Emerging technologies
D. Economic constraints on broadcasting

E. Social constraints on broadcasting
   Law
   FCC
   Public interest
   Citizen groups

F. The effects of broadcasting
   Violence
   Children
   Politics
Speech Communication 265
Telecommunication Production

Purposes

1. The student should come to realize that video production is, in essence, a new language -- one that must be learned slowly and carefully.

2. The student should come to realize that video skills, on an introductory level are non-specific, just as language is non-specific.

3. The student should come to realize that the skills gained in Speech Communication 265 can be employed in any area of video production.

Objectives

In contrast to purposes, that state the philosophical intentions of the instructor, objectives indicate what specific skills each student should possess upon completion of the course. After completing Speech Communication 265 each student should:

1. Be able to ready a television camera for operation.

2. Be able to execute the following camera movements: truck, dolly, arc, pan, tilt and zoom.

3. Be able to define the elements of and properly execute basic three point television lighting patterns.

4. Be able to execute the following basic switching procedures on a simple video switcher: take, dissolve, fade-in, fade-out, fade-to, key-insert, and wipe.

5. Be able to set up and plug in microphones.

6. Be able to cue and set proper audio levels for the following equipment: microphones, turntables, reel-to-reel tape, cartridge tape, cassette tape, and sound-on-film.

7. Be able to put all the audio sources listed in item #6 "on line" on command.

8. Be able to give on command the following floor managing signals: Stand-by, Cue talent, Cue talent to camera, Cut, Stretch, From the top, One minute, 30 seconds, 15 seconds, 5-1 seconds.

9. Be able to write and mark for direction a five-minute script.

10. Be able to direct a five-minute program.

11. Be able to produce a five-minute program.

12. Be able to construct graphics necessary for a five-minute program.
Speech Com. 265 CLASS SCHEDULE

Week 1 -- Camera Movement and Lighting.
Week 2 -- Video and Audio Switching, Floor Managing
Week 3 -- Script Marking
Week 4 -- Direction
Week 5 -- Production: Noon News
Week 6 -- Production: Noon News
Week 7 -- Production: Noon News
Week 8 -- Production: Picture Essay
Week 9 -- Production: Picture Essay
Week 10 -- Production: Picture Essay
Week 11 -- Production: Final Project
Week 12 -- Production: Final Project
Week 13 -- Production: Final Project
Week 14 -- Production: Final Project
Week 15 -- Production: Final Project
Week 16 -- Final Examination

TEXT: Television Production Handbook 3rd ed. by Herbert Zettl
       Television Production Workbook by Herbert Zettl
Purposes

1. Examination of American telecommunication media from multiple points of view.

2. To bring the student to the realization that every facet of this multi-faceted element of our culture can be subjected to rigorous criticism, and that they - as media consumer - are socially obligated to become competent critics.

3. To bring the student to the realization that telecommunication media function in a much wider arena than that normally observed by the home consumer. That the educational and communicative functions of telemedia are more critical to our society than the entertainment functions we normally associate with the media.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information the student should possess upon completion of the course. The specific objections for Speech Communication 361 are:

1. The ability to explain and apply the critical theories and structures examined in the reading and discussion.

2. The ability to explain and apply a personally developed critical theory.

3. The ability to explain and evaluate those non-traditional applications of telecommunication media examined in class.

Readings


Television: The Critical View, by Horace Newcomb.

Additional readings from current journals and periodicals to be assigned.

Process

The structure of the course will combine four major elements: 1) Lectures, 2) Discussion, 3) Observation of telemediated messages, 3) Research papers analyzing the above. The course will be divided into three major units.

Weeks 1-5 Structure and Critical Theory in Telecommunication.
Paper 1 due first class meeting of 6th week.
Weeks 6-10  Personal Theory Building, Observation and Application.  
          Paper 2 due first class meeting of 11th week.

Weeks 11-15  Non-traditional applications of telecommunication media. 
           Paper 3 due last class meeting of 14th week.

Week 16  Review for Final Examination.
Speech Communication 366
Telecommunication Methods

Purposes

1. To move the student from the basic skills level attained in SpCom 265 to the level of video problem solving and message design.

2. To expose the student to a variety of simple message problems in video production, and to acquaint the student with the production group problem solving process.

3. To allow the student to design a video solution to a major problem.

Objectives

In contrast to purposes that state the intention of the instructor, objectives indicate the specific skills and information the student should possess upon the completion of the course. The specific objectives of SpCom 366 are:

1. The student should be able to perform an insert edit, an assembly edit, an audio dub and a video dub on the Panasonic editing system with less than 1/4 sec. error.

2. The student should be able to solve, by writing, producing and directing the answer, a basic video information processing question, i.e. design a program that will provide, for the northern and eastern sections of the country, an accurate image of the Hispanic culture of the Southwest. Assume a grade school audience. Time: 10 minutes.

3. Design the video solution for a major communication problem, i.e. Examine the pros and cons of the storage of nuclear waste in New Mexico. Assume an adult audience. Time: 120 minutes. You may divide time into more than one program.

Texts

Small Studio Production by Quick and Wolf

Teleproduction Shortcuts by Westmoreland.

Process

The structure of the course will combine these major elements: 1) Laboratory, 2) Observation of telemediated messages, 3) Major paper: production book. The course will be divided into these major units:

Weeks 1 - 3 Editing training and exercises
Weeks 4 - 7 Observation of minor telemediated messages; analysis of problem and solution.
Weeks 8 - 10 Production of basic information processing problem.
Weeks 10 - 13 Observation of major telemediated messages; analysis of problem and solution.
Weeks 14 - 15  Design of video solution to major information questions.

Week 16  Review for final examination.
Speech Communication 367
Telemedia Film Production

Objective

To explore the various methods by which television stations research, produce and air programs which use film or mini-cameras (video). Emphasis is upon programs which are produced outside the studio: local news, public affairs, sports, remotes. After exploration students must be able to produce, direct, and film several programs, preferably of broadcast quality. Students are encouraged to work with community groups to produce public affairs spots and short documentaries for community use.

Texts: Making Movies from Script to Screen: to be purchased
The Video Handbook: on reserve
Super 8: on reserve
A Primer for Film-making: on reserve

Additional readings:
Everything You Ever Wanted to Know About Video
A selection by the student of a book about television production -- for example, The Making of Star Trek.

Assignments

First Assignment (individual): Write, film, direct and produce a one-minute film (super 8, 16 mm or video) on a single concept. Film must include three shots: establishing shot, cutaway and main theme. Shots must be a combination of close up, medium shot and long shot.

Second Assignment: Current news event, 50 to 1 hr. 30 min. Cover an event that is happening in the city. Assignment must be completed in same day of event. (Video must be used or 16 mm that can be processed immediately.)

Third Assignment (group): 5-10 minute documentary. Each group will have a sponsor who will supply film or tape. Group must select crew according to expertise and work closely together in at least two positions. Documentary must follow sponsor's request. Research, script must be handed in BEFORE shooting begins.

General Course Outline

First Week: Refresher course on all video equipment in studio. All students must be knowledgeable about studio equipment and able to operate same before end of week. Students should have taken 265 prior to entering this class, or be able to pass lab tests given in that class.


Third week: The Video System
Fourth week: The Super 8 camera

Fifth week: The 16 mm camera

Sixth week: The television script.

Seventh week: Producing the show: Pre-Production problems.

Eighth week: Production problems

Ninth week: Post-production problems

Tenth week: Viewing the finished product: All one-minute productions will be aired and critiqued.

Eleventh week: Editing: We will have guest lecturers from three stations to explain the various editing procedures peculiar to each station.

Twelfth week: Students will spend one day with a member of one of the stations (whenever possible the student will stay with a photographer).

Thirteenth week: Problem: Each student will be given a production problem which must be solved within the class time. All problems will be taken from television personnel's actual situations.

Fourteenth week: Covering the event: Students must be out covering the event, back in studio to edit film (or video), write script and produce story. Aired in studio.

Fifteenth week: Discussion of problems relating to mini-documentary. Whenever possible, sponsors should visit class and talk about what they wish to see. All film should be bought (or donated), location researched, script written, crew assigned by this time.

Sixteenth week: Work on mini-documentary.

Seventeenth week: Air documentaries: Critiqued.
Speech Communication 461
Telecommunication Strategies

Purposes

1. Bring the student to the realization that telecommunication media are structured around "linguistic" or "grammatical" structures, and hence have all the interactive potential of other communicative systems.

2. To make the student aware of the persuasive, argumentative and manipulative strategies evidenced by telecommunication media.

3. To make the student aware that telecommunication media function not only on the mass, or public level but also on the personal and corporate level.

4. To bring the student to the realization that the principles of personal, corporate and public communication are all employed in the production of telemediated messages.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information the student should possess upon completion of the course. The specific objectives for Speech Communication 461 are:

1. An awareness of, and critical competence in basic linguistic and persuasion theory. The ability to define and apply those theories.

2. An awareness of, and critical competence in basic interpersonal, organizational and mass communication theory. The ability to define and apply those theories.

3. The ability to apply all of the above theories in an in-depth analysis of selected telecommunication messages.

Readings

Rudy's Red Wagon: Communication Strategies by Rein
Television as a Cultural Force by R. Adler
The Psychology of Speech and Language by Joseph DeVito
Language and Cultural Diversity by R. Abrahams and R. Troike
Language: Introductory Readings by Clark, Eschholz and Rosa
Persuasion: Speech and Behavioral Change by Gary Cronkhite
The Unseeing Eye by T. Patterson and R. McClure.
Process

The structure of the course will combine four major elements: 1) Lectures, 2) Discussion, 3) Observation of telemediated messages, 4) Student papers and presentations analyzing those messages. The course will be divided into these major units:

Weeks 1-5 Linguistic and Persuasion Theory as they relate to Telemediated messages. Paper 1 due first class meeting of 6th week.

Weeks 6-10 Interpersonal, Organizational and Mass Communication Theory as they relate to Telemediated messages. Paper 2 due first class meeting of 11th week.

Weeks 11-15 The resultant strategies as observed in selected telemediated messages. Student presentations throughout the unit.

Week 16 Review for final examination.
Purposes

1. To expose the students to the rudiments of systematic development and design of mediated instructional and training messages.

2. To provide the students an opportunity to work with a client and subject matter expert in the design of such messages.

3. To provide the students the opportunity to produce a mediated message.

4. To encourage the students to recognize their need to pursue further grounding in the principles and techniques of the development and design of mediated instructional and training messages.

These aims will be attained by readings, reports, periodic tests, application of design and analysis techniques, and the initiation and undertaking of a telemediated instructional or training production.

Student's achievement will be assessed by:

1. The readings (reports)

2. Periodic tests

3. A diary or log of the designer-client relationship

4. Documentation of analysis and pre-production

5. Final production (when applicable)

- Specific behavioral objectives will be pursued by posttests after each topic area.

- Affective objectives will be assayed by class discussions.

- No specific production skills will be set out as objectives. The assumption is made that students enrolled in this course have the minimum of production skills (SpCom 265, SpCom 366) necessary to set technical standards for their tasks in conjunction with their clients, and to recognize and correct deficiencies. The course instructor will be available during the second half of the course for consultation concerning technical means to achieve desired education and esthetic values in the productions. This course will deal primarily with principles of telemediated instruction and training. The secondary focus of the course will be the actual production process.

Readings:

You are to read the assigned readings on reserve and write a brief one or two page report on one of them OR any article that turns you on more in your own field. These optional articles can be taken from ERIC or the pertinent journal. The optional articles must relate to the topic at hand.
Post-tests from the text must be handed in on time for credit.

You are also urged to get your report in for each topic before the next topic is started.

Optional readings on week's topic can be taken from the following periodicals:

- Training HM51M392 PML
- Ed. & Ind. TV LB 1044.7 E3 PER
- Ed. Broadcasting Int'l LB 1044.7E31 PER
- Ed. Technology LB 1027 T3 PER
- Audiovisual Instruction 371.3305 Au253 PER
- AV Communication Review 371.3305 Au245 PER
- Ed. Media Int'l LB 1043

Grading:

Reports: The body of reports you do is worth 25% of your grade.

Attendance and participation .................. 10%

Diary of your producer-client assignment . 25%

Analysis Design pre-production and (if possible) production of your mediated message .................. 25%

Analysis & Design due by March 15

Pre-production due by April 15

Final Exam ................................... 15%

Note #1: You can make up for an overdue report by producing 2 for 1.

Caution: It soon becomes astronomical to get out of a hole.

Note #2: The heavy reading schedule comes during first month and a half of class. Therefore, the bulk of your work will be meeting with your client, consultation with professor, and production of your message.
Speech Communication 465
Advanced Telecommunication Methods

Description
Non-print media communication emphasizing purposive integration of media. Application of theories of media effectiveness in individual and team projects.

It is assumed that students taking this class have a basic production competence in more than one of the following areas: video production, motion picture and still photography, audio recording and editing, multimedia/multi-screen production. SpCom 265, 366 and/or 367 are firm prerequisites for this course.

Some Concepts of Importance

Telecommunication - For purposes of this course, we view telecommunication as mediated communication distributed on a more than one-to-one basis, generally at a distance, with minimal opportunities for feedback from receiver to sender. It is a broad concept of which broadcasting is part, but only part. Vocational possibilities exist not only in television and radio stations but in various industries, government at all levels, educational institutions, etc. Consequently, we will deal in this course with a process of communication requiring special skills and awareness -- we will not deal with specific vocational roles and attitudes required for employment in a single industry.

Purposive - The inclusion of this term in the course description gives us a particular focus. Purposive implies intent, and it will be an important part of this course to develop goals (intents) for our mediated communication exercises. A large part of the production effort in this course will be given to the establishment and refinement of goals for a media presentation. The fact that we were able to gather together a script, visuals, music, etc. which made us feel nice when we saw it will not be sufficient in fulfillment of this purposive role.

Production - The ability to manipulate lights, cameras, recorders, etc. is an important and valuable ability for this course. However, this constitutes only one facet of production. Production is a translation process. It is the synthesis of hardware and policy limitations with raw ideas and purposes. Other facets of production include writing, visual conceptualization, production team facilitation, and coordination of personnel and hardware resources.

Major Project

The major project is the purposive, integrated media presentation. It will be a phased project with each phase turned in on deadline and evaluated by the instructor. The phases are as follows:

1. Isolation of Goals (Feb. 7)
   Establish the purpose for the project. What will happen once an audience is exposed to it? Why are we developing the project? Who should be reached and how can we best reach them? etc.
2. Treatment (Feb. 14)
   First written, sketched, picture of the media presentation which we are designing to meet the goals isolated above.

3. Rationalized Script and Previsualization (March 7)
   A full but adjustable script with each major segment rationalized in terms of purpose and in terms of effective media use.

4. Production and Distribution Plan (March 14)
   A full plan for actualizing the script. This should include a schedule, crew names, equipment reservations.

5. Production (March 21 - April 25)
   Based upon planning to this point, the presentation will be actualized and placed on tape or film.

6. Evaluation Scheme (May 9)
   Design and possibly implement research activities which are designed to suggest the relative effectiveness of the media presentation in terms of the goals isolated in step 1.

Upon completion of the course, you will have the major project "package." It will consist of your planning-evaluation papers and some form of media presentation which either constitute the entire presentation or will suggest what other parts of the series will be like.

**Course Goals**

1. To provide an opportunity to continue to refine production skills in a number of media.
2. To provide the opportunity for acquisition of a phased method in purposive media production.
3. To provide an opportunity in which participants can apply basic principles of media effectiveness in a media message building situation.
4. To provide an opportunity to develop strategies for evaluation of telecommunication presentations.

**Readings**


**Outline of Materials for Lecture Sessions**

Weeks 1 & 2 INTRODUCTION, Organization of laboratories, explanation of course goals, definition of terms, exploration of criteria for evaluation.
Weeks 3 & 4  THE VISUAL CULTURE. Development of a basic theory of screenic communication (read Gagne and Dondis)

Weeks 5 & 6  INFORMATIONAL COMMUNICATION AND THE MEDIA. The burden which must be cleared by the informational communicator: attention, acceptance, interpretation and retention. The communication scholar and the media.

Weeks 7 & 8  HUMAN INFORMATION PROCESSING: IMPORT FOR MEDIA MESSAGE BUILDING. The media message as processed by the receiver. (Read Travers)

Weeks 9 & 10  DIFFUSION OF INFORMATION. Development of media strategies based upon current views of diffusion.

Weeks 10 & 11  INTRODUCTION TO METHODOLOGIES FOR ASSESSMENT OF MEDIA MESSAGE EFFECTIVENESS. Developing a plan for evaluation of media messages based upon the intent of those messages.

Weeks 12, 13, EVALUATION OF PROJECTS
Speech Communication 466  
Writing for the Telecommunication Media

Course Goal
To provide an opportunity and a stimulus for exploring the innovative possibilities in writing programs for radio and TV. To do this well, a knowledge of the idioms of the status quo of broadcasting will be necessary, but the emphasis will be on broadening the range between the potentialities and the limitations of the media.

Text

Assignments
Your radio drama should be intact, if not polished to a bright sheen, by October 5. For the next month, we will concentrate on another script — this one for television. Here you have a choice:

a) outline, breakdown and full script of a 30 minute episode of any current, on-going TV series you want to write for (sit.-com., cop-detective, medical, Western, etc.); OR

b) a 30 minute script for a children's program or an instructional program. The instructional program can be oriented to formal education (based on a lesson or lecture plan), training (government or industry), professional updating (nurses, doctors, lawyers, etc.) or public information. Because of the amount of research involved in (b), only 50% of the program need be fully scripted.

Whether (a) or (b) is selected, it should be completed by November 5.

For the final project, you can choose to script (a) a television documentary on a historical theme, at least 50% of which will be dramatized; or (b) an adaptation of a short story for television. Each of these should be 30 minutes.

Evaluation
The Irish rogue who said, "I'm as good as you are -- and a damn sight better too" was, in his own way, evaluating. Perhaps, as some say, evaluation is too much with us and has become an essential part of this highly competitive society we live in. However, human behavior, especially the more creative kind, seems to need some form of evaluation, whether it be from within or without. The aim here will be to mesh these two as closely as our eyes will allow, so that at least there will be no major divergence between my view of your work and your own view of it.
This is the assignment list. You can choose to be evaluated on all or some of the assignments.

1. Radio Promo #1
2. Radio Promo #2
3. Radio Play
4. Video Poems
5. On-going Series, or children's or instructional
6. Documentary or Adaptation

Grading Option A  Grading Option B
1. 5% of total grade  3. 30%
2. 5%
3. 25%
4. 15%
5. 20%
6. 30%
7. 30%
8. 40%

Try to hand in scripts by the dates indicated, so that creative pressure can be evenly distributed over the available time. However, it is unrealistic to expect all writers to have the same pace. Some work better with a long period of gestation, followed by a highly-pressured, last minute writing frenzy. For this reason, no assignment will be due until December 2. On the other hand, absolutely no assignment material will be accepted after December 7.

(NOTE: Our individual script conferences will be conducted on the assumption that you are working evenly on the assignments, that is, concentrating on each one within the suggested time period.)

Course Outline

The focus will be on enlarging the use of imagination in enlivening all media genres. In order to allow for individual tastes and aptitudes in this, we will try to keep the course format as flexible as possible. The first portion of the course will be taken up with a consideration of the aesthetic qualities of radio and TV, particularly those aspects of each medium which will be of primary interest to a writer. Application of this to each of the major genres we will examine, will be offered at relevant times throughout the course.

A. Writing will begin with some warm-up exercises in radio promos -- in order to move imaginations in the direction of micro-dramas, to develop a sense of timing, and to face the frustration and discipline of getting across a message in a medium that few listen to any more.

B. We will then move on to radio drama, in the belief that radio need not always follow commercial practice but instead offer a challenge to creative writers. It is hoped that radio play scripts will arrive at or near the quality of earplay projects.

C. Video Poems: This project should last throughout the course, needing, as it does, a long period of imaginative gestation for many, since it is completely experimental. The object is to produce a genuine translation into visual art of two poems, one metered and the other in free-verse form. The end product should be a creatively-produced
re-working of the original verbal material into video form, not simply an illustration with pictures of the material in the verbal medium.

The mainstay of the course will be a writing-and-conference format. Each writer will work in close collaboration (weekly meetings) with the instructor, as each script evolves from concept to outline to breakdown to final script. This format is designed, not to be suffocating, but rather to monitor progress, eliminate kinks, revive after false starts, suggest new directions, nurture, soothe, stimulate, encourage and generally provide a writer's first audience.
Speech Communication 561

Seminar: Telecommunication Processes and Effects

Purposes

1. To promote individual, in-depth research in the area of process and effects in telecommunication.
2. To sharpen individual research skills.
3. To sharpen individual analytical skills.
4. To sharpen individual presentational skills.
5. To encourage individual scholarship in the area of telecommunication.

Objectives

In contrast to purposes that state the intentions of the instructor, objectives indicate the specific skills and information a student should possess upon completion of the course. The course objectives for Speech Communication 561 are:

1. Each student will be able to compile an extensive, annotated bibliography in an area of specific research interest.
2. Each student will be able to synthesize that bibliographic information into a concise analysis and presentation.
3. Each student will be able to question and evaluate such presentations.

Process

The structure of this class will consist of these major elements: 1) Lectures by instructor, 2) Lectures by students, 3) Compilation of annotated bibliography for student lectures, and 4) Discussion of the above. These major units will make up the course.

Schedule

Weeks 1-3  Lectures by instructor, outlining areas of concern
Week 4    Topic assignments and research procedures
Week 5    Bibliography due
Weeks 6-14 Student presentations
Week 15    Papers with annotated bibliography due
Week 16    Review for final examination
Speech Communication 564
Seminar: Telecommunication Policy and Regulation

Objectives

To become familiar with the laws, decisions, reports and other documents which pertain to American Broadcasting. Areas will include the development of broadcast regulation, freedom of expression and regulation of programming, freedom of expression and broadcast journalism, regulation of competition and the "Public Interest."

Furthermore decision making in American television will be explored, with emphasis upon the differences between local and network decisions. Pressures from without and within the industry will be explored. Analysis of decisions on local levels in areas of programming, sales, and management will be discussed.

Text


On reserve:


Additional Readings

TV Guides for years 1972-1977
Constitution of the United States.
A selection pertaining to social action: example: Broadcasting and Social Action, Citizen's Broadcast Councils, How to Talk Back to your Television, etc. (see instructor).

General Course Schedule

Section I: Each student will be responsible for a report on a ten-year period in radio and television. The report will contain important laws, changes in programming, a familiar trend identified with the times. In the first part of this class we will concentrate on understanding the television industry and the major policies and regulations that affected its growth.

Section II: We will deal with decision making processes at owner manager level in multiple and large group ownership organizations. Analysis of local station decision making will be based on articles and visits to stations. Areas covered include:

1. Who owns America's TV stations
2. The organizational structure
3. Network program decision-making: reaction to pressures
4. The inputs to the programming system
5. The local station
6. News operation and decisions
7. Influence of sales and selling procedures in local television.

In this section each student will be responsible for a report on some aspect of power and decision making in local television. The basic question explored is: Are American television decisions regarding policy arrived at by a "small and unelected elite" who control what is news and manipulate public opinion.

We shall examine the decision making process within the commercial television industry in an effort to locate the centers of decisional power, to identify who makes decisions, to analyze the scope and extent of the decision making power. Additionally, we shall examine the questions:

Is the American system of broadcasting serving the public interest?
Is the Federal Communications Commission too accommodating to those making the decisions or does FCC interfere in the broadcasters' pursuit of the public interest?

Section III: CATV and Copyright. The Regulation of Competition
This section will focus on Cable, and the future of home communication centers.

Assignment:
A research paper will be due at the end of section III. During the semester the instructor will meet with each student to discuss his or her area of interest in the broad field of policy and regulation.
References


Alvin Barshop, personal conversation with Dr. R. Schrag, Department of Speech Communication, University of New Mexico.


John Quick and Herbert Wolff, Small-Studio Video Tape Production (Reading: Addison-Wesley Publishing Company, 1972), Preface.


JOURNALS REPORTING RESEARCH ON TELECOMMUNICATION

Adult Education
American Behavioral Scientist
Audio
Audio Visual Communication Review
Central States Speech Journal
Communication Education
Communication Monographs
Communication Quarterly
Communication Research
Etc.: A Review of General Semantics
Human Communication Research
Interchange
Journal of Advertising Research
Journal of Broadcasting
Journal of Business Communication
Journal of Communication
Journal of Conflict Resolution
Journal of Creative Behavior
Journal of Educational Communication
Journal of Marketing
Journal of Popular Culture
Journal of Social Issues
Journal of Social Psychology
Journalism Monographs
Journalism Quarterly
Philosophy and Rhetoric
Public Opinion Quarterly
Public Telecommunication Review
Quarterly Journal of Speech
Southern Speech Communication Journal
Speech Teacher
Television Quarterly
Transactional Analysis Journal
Western Journal of Speech Communication
APPENDIX B
UNIVERSITY FORENSICS
FORENSICS AT THE UNIVERSITY OF NEW MEXICO

ANNUAL REPORT

1977-1978

Submitted by:

Ian McStephen, Director of Forensics

Payle Hardy, Forensic Assistant

Department of Speech Communication
INTRODUCTION

The Forensic program at the University of New Mexico continued to grow in the 1977-78 academic year both in quantity and quality. The University attended more tournaments then in the previous year and for the first time qualified students to compete in a national championship tournament. At the same time the program continued its focus on providing training for students interested in forensics on the high school level.

PARTICIPATION

Over 50 students participated in some capacity in forensics this year at the University of New Mexico. Students can receive credit for forensics through the Speech Communication Department (Speech Communication 275 and 375). Enrollment in these courses totaled 40 students over both semesters. In addition to these students, those enrolled in Directing Forensics (Speech Communication 472) participated as judges of high school speech contests.

ACTIVITIES

Forensics at the University incorporates five general classes of activities: high school judging, college competition, community judging, community demonstrations,
and high school coaching. High school judging involves the use of college forensic students as judges of high school forensic competition. Our students were involved in judging over 18 different high school tournaments throughout the state of New Mexico. In addition to judging at high school tournaments, the forensic program hosted this year's National Forensic League District Tournament. This tournament selects the best high school speech students from a district which includes all of New Mexico and parts of Colorado and Texas for competition at the National Forensic League's National Speech Tournament.

College competition encompasses a variety of speech activities including: debate, extemporaneous speaking, informative (expository) speaking, poetry interpretation, prose interpretation, dramatic duo, after dinner speaking, and communication analysis. This year the University of New Mexico attended 18 college tournaments:

- The University of Utah Fall Scrimmage
- The Top of the Rockies Invitational (Univ. of Wyoming)
- The University of Northern Colorado Invitational
- The Pikes Peak Invitational (The Colorado College)
- The University of New Mexico Invitational
- The Colorado State University Classic
- The Eastern New Mexico Invitational
- The United States Air Force Academy Invitational
- The Sun Carnival Invitational (El Paso Community College)
- The Univ. of Texas, El Paso Invitational
- The Great Salt Lake (University of Utah)
- The University of Southern Colorado Invitational
- The Great Desert (Univ. of Arizona)
- The District Nine National Individual Events Qualifier
- The Rocky Mountain Championships (Metropolitan State)
- The District Nine National Debate Qualifier
- The National Individual Events Tournament (Illinois State)
- The New Mexico Championships (New Mexico Military Institute)
Our community judging this year involved evaluating the district level of the Optimists Club. The forensic squad presented demonstration debates and speeches this year to various high school speech classes within the city and to various classes at the University of Albuquerque. The forensic teams also presented a public debate at the University of New Mexico on Affirmative Action programs.

AWARDS

The University of New Mexico students won a number of awards in competition against students from other universities. Of particular satisfaction to the squad was the qualifying of two students for the National Individual Events Tournament from our squad and the almost complete domination of the New Mexico Championships. The National Individual Events Tournaments brings together the best speakers in the nation in eight different events. The New Mexico Championships is a state tournament in which the colleges of New Mexico compete to determine the best speakers and colleges in the state. The following is a list of awards won by the University of New Mexico forensic squad this year:

1st Place Awards:
- 1st place, Senior Debate, Univ. of Texas, El Paso
- 1st place, Oratory, University of Arizona
1st place, Senior Debate, New Mexico Championships
1st place, Junior Debate, New Mexico Championships
1st place, Impromptu Speaking, New Mexico Championships
1st place, Expository, New Mexico Championships

2nd Place Awards:
- 2nd place, Impromptu Speaking, Eastern New Mexico
- 2nd place, CEBA Debate, Eastern New Mexico
- 2nd Place, Oratory, University of Southern Colorado
- 2nd place, Senior Debate, Colorado State
- 2nd place, Senior Debate, New Mexico Championships
- 2nd place, Junior Debate, New Mexico Championships
- 2nd place, Oratory, New Mexico Championships
- 2nd place, Dramatic Duo, New Mexico Championships
- 2nd place, Prose Interpretation, New Mexico Championships

3rd Place Awards:
- 3rd place, Senior Debate, University of Southern Colorado
- 3rd place, CEBA Debate, Colorado State
- 3rd place, Senior Debate, El Paso Community College
- 3rd place, Expository, University of Utah (GSL)
- 3rd place, Expository, Metropolitan State
- 3rd place, Dramatic Duo, N.I.E.T. Qualifier
- 3rd place, Junior Debate, New Mexico Championships
- 3rd place, Poetry Interpretation, New Mexico Championships
- 3rd place, Oratory, New Mexico Championships
- 3rd place, Dramatic Duo, New Mexico Championships
- 3rd place, Extemporaneous Speaking, New Mexico Championships
- 3rd place, Expository, New Mexico Championships

4th Place Awards:
- 4th place, Expository, The Colorado College
- 4th place, Oratory, Eastern New Mexico
- 4th place, Extemporaneous Speaking, Eastern New Mexico
- 4th place, CEDA Debate, El Paso Community College
- 4th place, Impromptu, El Paso Community College
- 4th place, Extemporaneous Speaking, Univ. of Texas, El Paso
- 4th place, Oratory, Univ. of Texas, El Paso
- 4th place, Oral Interpretation, Univ. of Texas, El Paso
- 4th place, Expository, Univ. of Texas, El Paso
- 4th place, Expository, University of Utah (GSL)
- 4th place, Expository, Univ. of Southern Colorado
- 4th place, CEDA Debate, Metropolitan State
- 4th place, Expository, N.I.E.T. Qualifier
- 4th place, Expository, N.I.E.T.
- 4th place, Extemporaneous Speaking, New Mexico Championships
- 4th place, Poetry Interpretation, New Mexico Championships
- 4th place, Dramatic Duo, New Mexico Championships
- 4th place, Expository, New Mexico Championships
- 4th place, Oratory, New Mexico Championships
5th Place Awards:

- 5th place, Senior Debate, The Colorado College
- 5th place, Extemporaneous Speaking, The Colorado College
- 5th place, Expository, The Colorado College
- 5th place, CEDA Debate, University of Utah (GSL)
- 5th place, CEDA Debate, Univ. of Southern Colorado
- 5th place, Extemporaneous Speaking, Univ. of Southern Colorado
- 5th place, Expository, Univ. of Southern Colorado
- 5th place, Expository, University of Arizona
- 5th place, Oratory, University of Arizona

Sweepstakes Awards:

- 1st place, New Mexico Championships
- 4th place, Univ. of Texas, El Paso
- 5th place, University of Southern Colorado
- 6th place, El Paso Community College
- 9th place, Metropolitan State

Special Awards:

- 10th place overall speaker, District Nine N.I.E.T. Qualifier (Dan Ramczyk)
- 14th place, National Ranking of the UNM CEDA Debaters
This year saw the creation of the University of New Mexico Invitational. Fifteen schools from the Intermountain West traveled to Albuquerque to compete in Senior, Junior, CEDA Debate, extemporaneous speaking, expository speaking, oral interpretation, and dramatic duo. The overall award (sweepstakes) was won by the United States Air Force Academy.

FUTURE DIRECTIONS

Next year will hopefully see a continuation of the successes of the UNM forensic squad. The university's growing reputation is attracting outstanding New Mexico high school students for the program. Current plans call for the forensic squad to broaden its range of tournaments to include contests in Kansas and California and to add a high school tournament in the Fall to compliment the Spring tournament.
APPENDIX C

PROCLAMATIONS FOR COMMUNICATION WEEK
WHEREAS, Communications is an old and respected discipline dating back to the cradle of civilization, and
WHEREAS, Communication was one of the cornerstones upon which universities were founded, and
WHEREAS, Societies are formed through communications, and
WHEREAS, Communicative processes are primary to societal progress, fundamental to civilization, the lifeblood of organizations, and central to individual stability,

THEREFORE, as President of the University of New Mexico I proclaim the week of February 19-25, 1978, COMMUNICATION WEEK
To recognize, honor and respect the central Place that communication occupies in our University and in our lives.

[Signature]
William E. Davis
President
University of New Mexico
WHEREAS, COMMUNICATION IS A PERSON'S MOST SIGNIFICANT AND DISTINCTIVE BEHAVIOR, AND
WHEREAS, COMMUNICATION IS THE BRIDGE THAT CONNECTS NEIGHBORS IN FRIENDSHIP AND SERVICE, AND
WHEREAS, EVERY CULTURAL PATTERN AND EVERY SINGLE ACT OF SOCIAL BEHAVIOR INVOLVES COMMUNICATION, AND
WHEREAS, THE ABILITY TO COMMUNICATE IS ESSENTIAL TO BOTH INDIVIDUAL SUCCESS AND TO GROUP ACTIVITY.

NOW, THEREFORE, I, DAVID RUSK, MAYOR OF THE CITY OF ALBUQUERQUE, DO HEREBY

PROCLAIM THE WEEK OF FEBRUARY 19-25, 1978 AS

"COMMUNICATION WEEK"

TO RECOGNIZE, HONOR AND RESPECT THE CENTRAL PLACE THAT COMMUNICATION OCCUPIES IN OUR PERSONAL AND COMMUNITY LIFE.

DAVID RUSK, MAYOR
WHEREAS, communication is the essence of humanity; and
WHEREAS, societies are formed through communication; and
WHEREAS, communication is the lifeblood of organizations;
and

WHEREAS, communicative processes are fundamental to civilization, primary to societal and cultural progress, and central to individual stability;

NOW, THEREFORE, I, JERRY APODACA, Governor of the State of New Mexico, do hereby proclaim the week of February 19 through 25, 1978, as:

"COMMUNICATIONS WEEK"

in New Mexico to recognize and honor the central place that communication occupies in our personal, community, state, national, and international affairs.

DONE AT THE EXECUTIVE OFFICE
THIS 10TH DAY OF FEBRUARY, 1978

WITNESS MY HAND AND THE GREAT SEAL OF THE STATE OF NEW MEXICO

GOVERNOR
A. Significant Developments

1. The following number of degrees were awarded during the report period:

   B.A. 4  M.A. 6

2. Enrollment during the report period reached the number of 32 graduates and 12 undergraduates.

3. The former president of Bolivia, Dr. Víctor Paz Estenssoro, served as visiting professor at the university during the spring semester, teaching courses in the History Department.

4. Work on the State Department research contract, "Policies of the Major Latin American Exporting Countries", was concluded. The completed report was presented to the Department of State on December 31, 1977, and has also been submitted for publication.

5. The Division sponsored a lecture in March by Professor Alistair Hennessy of the University of Warwick, England, on "The Art of the Mexican Revolution". The lecture was co-sponsored by the Latin American Center, the College of Arts and Sciences, the Graduate School, and the College of Fine Arts.
D. Professional Activities

The professional activities of the director and assistant director, Drs. Needler and Remmer, have been reported through the Department of Political Science.
A. Significant Developments during the Academic Year 1977-78.

It might be appropriate to borrow a term from the world of sports and describe the fiscal year July 1, 1977-June 30, 1978 as one of "rebuilding". A large part of this report will deal with "plans and recommendations", many of which stem from the work of the Task Force appointed by President Davis on May 26, 1976 and charged with a general review of existing entities and operations and with making recommendations for future efforts.

1. The Andean Study and Research Center, Quito, Ecuador. The most significant development associated with the Andean Study Center was the final granting of legal status by the Ministry of Education of Ecuador on May 4th of 1978, after ten years of de facto operational status. The decree, as issued, covers the status of the consortium of the universities of New Mexico which, in its original state, included UNM, NMSU; and NMHU. The latter institution remains an inactive partner until such time as its Board of Regents may authorize participation. New Mexico Highlands, like the others, suffers from the continued unwillingness of the BEF to recognize academic credits earned off campus, and has not been permitted by its Board of Regents to share in the program despite the desire of President Aragón that such be allowed.

The instruction program of the Center remains virtually unchanged. Instructional services are rendered largely by host-country specialists or by North American scholars who happen to be in short term residence in
Ecuador and thus available for assignments. Dr. Nick Dean Mills, Jr., who continues as Director of the Center, also contributes to the instructional program. His administration has been characterized by meticulous attention to scholastic standards and careful organization and staffing of the academic program. Enrollments at the Center reflect the national trend in overseas programs, namely, a decline from the peak period of 1972 for reasons which are not entirely clear but probably reflect diminished student concern for international problems associated with freedom from involvement in conflicts. In any event, as long as the BEF myopia persists, it is to UNM'S advantage to have a relatively low quota of students at the Center provided that NMSU and other collaborating institutions, such as Northern Illinois, add sufficient to the total enrollment to warrant maintaining the effort. The greater the number enrolling from elsewhere, the smaller UNM'S loss in revenue from State allocations.

The Latin American Center has just furnished the Dean of Arts and Sciences, at his request, a detailed report including enrollment data, course distribution, inventory analysis, cost per student figures and other baseline data, including recruitment procedures and inputs from other institutions, to the end the Central Administration may arrive at some decision regarding the continuation of the program, which is now concluding its tenth year of operation.

2. ACTION-Peace Corps Liaison. The most recent component to come under the umbrella of the Latin American Center is the Peace Corps Liaison office which the Center director undertook to negotiate in 1976, proposing Mr. Harvey Buchalter, an ex-volunteer and a doctoral candidate in Ibero-American studies as principal. Mr. Buchalter maintains office hours in
in space adjacent to the Latin American Center in Ortega Hall and has been active in symposia and recruiting activities organized by him throughout the State, as well as in meetings convoked by Peace Corps in neighboring metropolitan areas such as Denver and Dallas. Mr. Buchalter's services as Liaison Officer have literally set national standards in terms of college recruitment quotas, to the extent that his budget has increased from $3,100 in the first year of operation to $8,655 in the 12 month contract effective March 1 of this year.

3. Extra-Curricular Programs in Support of Area Studies. To the extent that funds permit, the Latin American Center provides total or partial (more often the latter) support for symposia, lectures series and events in the performing arts. In some instances the initiative is taken by the Center itself, in others, support is given in response to departmental requests. An event which attracted national and limited international attention was the "Simposio Internacional de Literaturas Hispánicas" (October, 27, 28, 29, 1977) organized and directed by Dr. Dinko Cvitanovic of the M and CL faculty and jointly sponsored by the Department of Modern and Classical Languages and the Latin American Center, the latter providing subvention for a considerable portion of the Latin American input. Other funding was provided by the Spanish government, a publishing house, and the College of Arts and Sciences. Distinguished Latin American participants included: José Emilio Pacheco (Mexico) and Héctor Ciocchini (Argentina) in the field of Poetry, Manuel Zapata Olivella (Colombia) in the novel, and the critics Luis Harss (Argentina - U.S.), Julio Ortega (Perú) and Galo René Pérez (Ecuador). The Latin American Center, in addition to funding, provided necessary house-keeping and
transportation functions for the sessions in Albuquerque and Santa Fe. The meetings drew special attention by virtue of the new liberalized régime in Spain which permitted, for the first time, Spanish dissidents to participate in professional assemblies abroad. In consequence, the *New Republic* of December 24 and 31, 1977 carried an enthusiastic piece of coverage.

A second event which drew considerable press coverage, both local and national, was the "Town-Hall - Great Decisions" public forum on the Panamá Canal Treaties of January 17th, 1978, jointly sponsored by the Latin American Center and the Division of Continuing Education and funded by the New Mexico Council for the Humanities. The forum was attended by some 500 persons who heard expositions by Senator Harrison Schmitt (R., New Mexico) and Ambassador David Popper, Deputy for Panama Canal Treaty Affairs, who expressed opposing views after which, in a meet-the-press format, they were queried by members of the local news media. A special feature of the session was a direct line telephone call from President Carter at the White House which was taken by the moderator of the meeting, Dr. Marshall Nason, over a hook-up permitting simultaneous reception by the audience. President Carter then answered at some length a question formulated by a member of the public, selected by the media representatives and relayed to him by the moderator. Other Latin Americanist faculty participating in the event were Dr. Pedro R. David, Chairman of the Department of Sociology and Dr. Michael Conniff of the Department of History. Balloting concluding the session gave a 70% affirmative reading from amongst the predominantly University audience.

Lectures and programs sponsored wholly or in part by the Latin American Center were as follows:


The Latin American Center has also been able to support either wholly or partially, the professional participation of UNM Latin Americanists in national and international meetings with a view towards continuing to project institutional prominence in the field. Faculty travel and per diem has been accorded in the following instances:


Nelson P. Valdés, Sociology, to participate as a panelist at the American Political Science Association meetings, Washington, D.C., September 2-5, 1977.

Martin C. Needler, Division of Inter-American Affairs, to attend 7th National Meeting of the Latin American Studies Association, Houston, Texas, November 2 - 5, 1977.


Dick Gerdes, Modern Languages, travel to Cuernavaca, Mexico to present a paper at the annual meeting of the North Central Conference on Latin American Studies, January 19, 1978.


4. General Support Services. The Latin American Center has continued to support the cross-listed course "Latin America Through Film" (Latin American Studies, Sociology, political Science 250) by funding of the film rentals essential to the conduct of the course. The Center has also made limited film purchases for the same purpose. To the extent possible, seed money has also been provided for the implementation of new inter-college degrees such as the MBA/MA in Latin American Studies, although this year's funding has provided much less than that of the previous year for developmental travel, acquisition of instructional equipment and materials, etc.

The Center is serving, for the first time, as the domicile for the Student Work Program for Latin America, and is providing faculty sponsorship as specified by the ASUNM charter. This organization, which operates in conjunction with student groups at New Mexico State University, is designed to furnish low to mid-level technical assistance in health services, agriculture, education, commerce and other fields in collaboration with Central American government ministries, Peace Corps and private voluntary agencies. The local student director, Mr. Miguel Quintana, who conducts his business at the Latin American Center, has engaged (and will direct in
the field) the services of sixteen student volunteers for the summer of 1978. Work will be carried out largely in Honduras and El Salvador. The Center director serves as faculty sponsor.

Other services have included: (1) preparation of project proposals such as the Title VI. N.D.F.L. Fellowships renewal request, a data-laden document which resulted in the renewal of the small quota of grants for an allocation of $16,900. (2) preparation of technical reports giving evidence of University compliance with such grants, (3) preparation of surveys and status reports for various domestic, foreign and international agencies and organizations, (4) retrieval, accumulation and analysis of data relative to Latin American studies at the University of New Mexico, support of program implementation, and (5) fiscal backstopping of the Andean Center, as well as logistical support and preparation of student contingents. The Center has also functioned as the central communications link between the federal government foundations and private voluntary agencies and Latin American specialists on the University faculty and transmitting advices regarding fellowship and research perspectives, impending events of inter-American character, while maintaining also the local communications network. In short, it has continued to serve as a clearing house for all Latin American programs on campus and with all off-campus entities making inquiry about such programs.

To the extent possible, the Center also serves as a contracting agency for Latin American activities as a whole and for special projects as the latter may arise. The Center is now in the final stages, for example, of contract negotiation with the Community Services Administration, Washington, D.C., for research workshop on the problem of the undocumented worker in U.S. society, of which exercise will be a publication of findings.
which may serve as a data base for future policy formulation.

The Ibero-American Studies doctoral program continues to be domiciled in the Center which handles all student inquiries, processes applications and performs all other administrative support services, including student advisement, scheduling of courses, administration of exams, etc. The Center director continues to serve as director of the doctoral program.

Where recruitment involves interdisciplinary assignment, the Center may exercise a rôle in the search and hiring process. During the fiscal year just concluded such a search was conducted for a Latin Americanist with expertise in crossdisciplinary team research and association with foundations and granting agencies. As of this writing, an offer has been made to Dr. Louis W. Goodman, a sociologist with the Social Science Research Council of New York.

B. Significant plans and recommendations for the near future.

As soon as the moment is opportune, i.e., when the federal government announces another funding cycle for language and area centers, we propose to enter a strong bid for refunding, the hope being to recapture all or part of the allocation lost in recent competition. If congressional appropriations are adequate, and if HEW follows more or less established practise, competition should be announced sometime during the next fiscal year.

In the meantime, plans are moving forward for a sweeping revitalization of the Latin American studies and programs at UNM to the end that any new bid for outside subvention will be significantly enhanced. A proposal for a newly organized Latin American Institute at the University of New Mexico has been approved by the Research Policy Committee and accepted for implementation by the Provost, presumably as funds permit beginning with
fiscal year 1978-79. Full implementation may be briefly delayed even after
formal inauguration for budgetary reasons.

The proposal was the end-product of deliberations by a special Task
Force appointed by President Davis and charged with a thorough-going
review of all programs, structures and activities relating to the Latin
American area and with making recommendations for improved integration of
resources. Implicit was the need to consolidate somewhat diffuse entities,
including academic, administrative, research and technical assistance
components. One of the influential models during the formulation of the
proposal was the Latin American Institute at UCLA, though much of the
proposed structure reflects the way in which the Task Force conceptualized
local resources and prospects.

In framing its proposal the Task Force also had in mind the need for
more active faculty participation in setting policy for Latin American
programs. Thus, a series of Dean's committees were proposed at the College
level, together with a Policy Committee giving college and program represent-
tation, and a Faculty Concilium to serve as a general constituency for the
large number of specialists committed, through teaching, research and
technical assistance, to the Latin American field. All in all it was
concluded that such a structure, in addition to imparting greater visibility
to one of UMM's traditional commitments, would facilitate the coordination
of teaching, research and service efforts in the Latin American field,
stimulate cross-disciplinary and inter-college collaboration, permit the
more effective pooling of resources, and increase the scope of public
outreach, particularly to the pre-collegiate schools and the community in
general.

9
As projected, the current Latin American Center will be incorporated into the new Institute structure as its principal administrative support component. The budget of the Center will also be integrated into the overall fiscal structure of the Institute. The day to day operation of the Institute will be under the supervision of an Executive Director who will be responsible to a Policy Committee which will determine the course of action for the three main divisions of the Institute, namely: 1) Academic Programs and Research, 2) Contract Programs and Technical Assistance, and 3) Support Services.

The revised organizational chart, as proposed, will show the Latin American Institute depending from the Office of the Provost in direct line of responsibility. The Provost, or his designated representative will also serve on the Policy Committee of the Institute, as will the Executive Director of the Institute and the directors of current programs, namely, Inter-American Affairs, Ibero-American Studies and Latin American Programs in Education. (See the organization chart which appears at the conclusion of this Report). Lateral inputs to the Policy Committee will come from the Deans' Committees and the Faculty Concilium.

Ideally, future plans should also call for the housing of all affiliated units in a single facility, although a realistic view of finances suggests that this may be deferred for some time.

In addition to the more efficacious coordination of existing activities and the stimulation of interdisciplinary research and teaching, it is hoped that the Institute may provide for a modest monograph series, augmented funding for individual and team research, funds to provide access to primary sources (travel) and additional seed monies for seeking sponsored
research and other types of unit and/or faculty subvention.

Though the line has not yet been formally approved or the position published, it is anticipated that administrative strength may be enhanced by the addition of at least a half-time associate director for federal agency and inter-American liaison. Under current circumstances the University has suffered from lack of direct access to government departments, legislative chambers, international organizations, foundations and private voluntary agencies most of which are concentrated in Washington and New York. The services of a well connected individual could be of infinite assistance in bidding for outside support for the program.

Previous reference has been made to an impending faculty appointment which, it is hoped, may nearly coincide with the inception of the Institute structure and which may be identified with it. The specialist so named could conceivably carry the designation of Director of Interdisciplinary Research and, if such is consensus, have a portion of his time assigned to the Institute.

Future plans also include specific activities such as the following: 1) The above-mentioned Research Workshop on the Undocumented Worker, 2) a Hispanic American Conference on Inter-American Affairs (proposed for joint conduct with State and OAS), 3) an appropriate technology center for Latin America and the Spanish Southwest, and 4) a central repository for educational films relating to Latin America and useful to instructors in inter-disciplinary courses, perhaps with joint auspices of the Consortium of Latin American Studies Programs, the institutional arm of the Latin American Studies Association, and funding by a private foundation. It is also contemplated that in the line of "outreach" we shall become progressively more
engaged in a summer institute on Latin American studies now getting under way at the Santa Fe Academy with the joint collaboration of UNM and Stanford University.

C. Appointments to Staff.

The only staff change in lines other than student employment was the hiring of Miss Susan Tritten as a temporary replacement for Mr. Garth M. Hansen, Administrative Assistant, who elected to take a leave of absence to conclude work on a doctoral dissertation. Miss Tritten like Mr. Hansen, is a doctoral candidate in Ibero-American Studies. Her duties involve largely administrative backstopping of the Andean Study and Research Center at which she was a former enrollee. Miss Tritten's effective date was February 13, 1978 and her termination date June 2, 1978.

The services of Miss Christina Ruiz-Esparza as a student secretarial-clerical assistant were engaged on April 12, 1978.

D. Separations from Staff.

Reference has been made in paragraph "C" above to the leave of absence of Mr. Garth M. Hansen, Administrative Assistant, from February 12 until June 5 to engage in dissertation writing. The only other staff changes are at the student level. Work-study employee Miriam Duarte resigned on April 10, 1978; the work-study slot has remained unfilled for the concluding weeks of this fiscal year.

Miss Martha Fellié, Departmental Secretary, elected beginning September 1st, 1977 to reduce her work-load to .50 FTE in order to pursue studies of interest. The remaining .50 FTE has been filled first, by Miss Rita M. Vega who withdrew on April 10, 1978 and subsequently by Miss Christina Ruiz Esparza, as indicated in paragraph "C" above.
E. Publications.

All publications of faculty associated with the Latin American Center are reported by the departments of academic assignment.

F. Outside Professional Activities of Staff Members:

The Center director, Marshall R. Nason, engaged in the following outside professional activities:

1) Attended the Seventh National Meeting of the Latin American Studies Association, Houston, Texas, November 2 - 5, 1977. Chaired the panel jointly sponsored by LASA and CLASP on "Non-Academic Employment Opportunities" for Latin Americanists, and subsequently edited the proceedings for publication by CLASP.


3) Presided over "Great Issues-Town Hall" Meeting on the Panama Canal Treaties, jointly sponsored by Continuing Education and the Latin American Center and funded by the New Mexico Council for Humanities. Served as moderator for public forum following the Presidential phone call and presentations by Ambassador Popper and Senator Schmitt. January 17, 1978.

4) Participated as panel member in Public Forums on the Panama Canal Treaties in Los Alamos, February 20, 1978 and in Santa Fe, February 21, 1978.


6) Was accorded plaque of appreciation by the International Center for support of that organization and was honored by special municipal decree read by Mayor Rusk declaring April 8 "Marshall Nason Day".
7) Read paper at the Conference on Study Programs Abroad of the American Association of Teachers of Spanish and Portuguese ("En la mitad del Mundo: the UMH Program in Ecuador"), Madrid, Spain, June 26 - 30, 1978.
Policy Committee of the Institute for Latin American Studies

EXECUTIVE DIRECTOR

STAFF

Office of Support Services

Division of Academic Programs and Research

Division of Contract Programs and Technical Assistance

Faculty Concilium on Latin American Studies

Dean's Advisory Committees

Provost

Membership of the Policy Committee:

Chairpersons, Dean's Committees (6)
Representatives, Faculty Concilium (3)
Provost or his representative (1)
Director of the Latin American Institute (1)
Program Directors, Major Programs (3)
Total: (14)